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09-AFC-4
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April 29, 2010

Mr. Joseph Douglas
Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

Subject: DuPont Property Due Diligence Summary Report for the Oakley Generating Station Project (09-AFC-4)

Dear Mr. Douglas:

On behalf of Contra Costa Generating Station LLC please find attached 13 hard copies and one electronic copy on CD-ROM of the DuPont Property Due Diligence Summary Report.

We are submitting this as part of due diligence associated with the execution of a Purchase and Sale Agreement between Contra Costa Generating Station, LLC (CCGS) and Pacific Gas and Electric Company (PG&E). PG&E contracted with Arcadis to conduct sampling of soils and groundwater throughout the site for the proposed Oakley Generating Station. Acradis documented the results of this effort in a report issued on January 15, 2010. PG&E requested that copies of the report be submitted by DuPont to the Department of Toxic Substances Control (DTSC) and by CCGS to the CEC. As such, please find enclosed the following documents:

- Arcadis Due Diligence Summary Report dated January 15, 2010 and associated appendices. Please note: Because of the size of Appendix E (Analytical Results), it is included as a separate CD.
- DuPont's transmittal letter to DTSC dated March 3, 2010 with memorandum from URS Corporation (one of DuPont's environmental consultants) summarizing their review of the Arcadis report
- DTSC's letter to DuPont dated March 15, 2010 acknowledging receipt of the Arcadis report

If you have any questions about this matter, please contact me at (916) 286-0278.

Sincerely,

CH2M HILL

Douglas M. Davy, Ph.D.
AFC Project Manager

Attachments

c: G. Lamberg, Radback Energy
J. McLucas, Radback Energy
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Pacific Gas & Electric

Due Diligence Summary Report

Radback Oakley Power Generation Project
Oakley, California

January 15, 2010

ARCADIS

Due Diligence Summary Report

Oakley California

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RC000746.0002

Date:
January 15, 2010

This document is intended only for the use of the individual or entity for which it was prepared.

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1. Introduction

On behalf of Pacific Gas and Electric Company (PG&E), ARCADIS has prepared this *Due Diligence Summary Report* (report) to describe activities completed to evaluate soil and groundwater conditions at a 21.95-acre portion of the Western Development Parcel of the property located at 6000 Bridgehead Road in Oakley, California. Former industrial activities by E. I. du Pont de Nemours and Company (DuPont) at this address have resulted in soil and groundwater contamination currently undergoing remediation under the California Environmental Protection Agency's Department of Toxic Substance Control (DTSC) oversight.

The Western Development Parcel is a subdivision of the parent property that has been released for unrestricted use by the DTSC. This evaluation was conducted on a 21.95-acre portion of the Western Development Parcel that is proposed for redevelopment as a power generation project under an option agreement between DuPont and Radback, Inc. The 21.95-acre parcel proposed for redevelopment is hereafter referred to as the site. The portion of the DuPont Property that does not include the site is hereafter referred to as the "DuPont Property." The majority of the site has been used as a vineyard for more than 80 years. A small portion of the northeast corner of the site is paved and was used for industrial activities by DuPont.

1.1 Objectives

ARCADIS performed soil and groundwater investigations at the site to:

- characterize the nature and extent of potential chemicals of concern (COCs), in soil and groundwater, associated with historical activities conducted at or near the site
- characterize current hydrogeologic conditions at the site
- evaluate long- and short-term hydrogeologic effects of the redevelopment on groundwater flow and quality at and near the site

1.2 Site Description

1.2.1 Radback Parcel

The site is located near the south bank of the San Joaquin River, east of the Highway 160 Bridge and approximately 7 miles upstream of the confluence with the Sacramento River (Figure 1). This area is known as the San Joaquin – Sacramento Delta Valley. Topography near the site is characterized as gently rolling to flat. Ground surface elevations slope from hills located a few miles southwest of the site northward toward the river. The San Joaquin River is tidally influenced in the area near the site. The site is at a ground surface elevation of approximately 15 to 20 feet above mean sea level (msl).

The site is a 21.95-acre parcel located in the southwest corner of a 378-acre property currently owned by DuPont (Figure 2). As shown on Figure 2, the site is bordered to the north and east by the DuPont Property, to the south by the Santa Fe Railroad line, to the southwest by PG&E's Antioch Gas Transfer Station, and to the west by the Delta Diablo Sanitary District Pump Station.

The majority of the site is currently undeveloped and has been used as a vineyard by the Cline family for at least the last 80 years (Figure 2). The northeast corner of the site is separated from the vineyard by a row of eucalyptus trees and was used by DuPont for minimal industrial activities including an aboveground fuel tank and is adjacent to areas on the DuPont Property used for hazardous waste storage. This area is paved and can be seen on Figure 2. Potential sources of chemical contamination on the site include minimal industrial activities in the northeast corner, agricultural activities such as pesticide use, and a railroad spur located along the southern boundary of the site.

1.2.2 DuPont Property

Groundwater beneath the DuPont Property has been impacted in at least three different locations with chemical plumes associated with historical DuPont operations. A portion of DuPont's "Plume 1" is the subject of in-situ groundwater remediation by means of several Permeable Reactive Barriers (PRBs) that appear to be located hydraulically downgradient from the site. As shown on Figure 2, several potential sources of chemical contamination associated with DuPont activities are located adjacent to the site. Potential sources of chemical contamination include a stormwater catch basin, electrical substation, diesel storage area, auto shop, gasoline aboveground and underground storage tanks (ASTs and USTs), hazardous waste

storage area, sand blast area, and titanium dioxide landfill. These potential contamination sources are located off-site but within approximately 50 feet of the site perimeter.

1.3 Climate

The central California area has a characteristic wet season from October through April, during which most annual precipitation occurs. The dry season makes up the remainder of the year. Due to this significant variation in seasonal precipitation, there is also significant variation in recharge to groundwater, vegetation growth and evapotranspiration (EVT).

1.4 Redevelopment Plan

A site redevelopment plan prepared by Black & Veatch serves as the basis for this evaluation. An overlay of the development plan is provided on Figure 3. The site redevelopment plan involves removing the vineyard and constructing power generation plant infrastructure, including concrete pads, paved driving surfaces and stormwater management structures. As shown on Figure 3, redevelopment of the site as a power generation plant would result in converting a significant portion of the site area to impervious cover, with the remainder of the site covered by eucalyptus trees and idle land including paved areas. Under the site redevelopment plan, stormwater would be collected by a series of bioswales and culverts for infiltration and partially routed to an existing mitigation wetland on the west side of the site.

1.5 Screening Levels for Concentration Data

Neither the Central Valley Regional Water Quality Control Board (CVRWQCB) nor the DTSC have established site-specific environmental screening levels for the site. In the *Western Development Area Report* (DuPont 2004), the 2002 preliminary remedial goals (PRGs) were used as a screening tool, with the exception of arsenic. In 2006, DuPont worked with both agencies to come to an agreement regarding environmental screening levels (ESLs) based on risk analysis (DuPont 2006). The risk-based screening levels were developed for select COCs. These screening levels were reported in the *Phase 1 Soil RFI Report* (DuPont 2006).

This evaluation uses the current residential ESLs developed by the Regional Water Quality Control Board, San Francisco Bay Region, with the exception of arsenic and dioxin. The ESLs are more conservative than the risk-based screening levels

developed for the DuPont Property. Alternative screening values were used for arsenic and dioxin to show that, in spite of exceeding residential ESLs for these constituents, the concentrations of these constituents identified during this evaluation are within ranges currently accepted by the DTSC. The tables in Section 3 list the screening values used in this report.

Arsenic background concentrations and dioxin values are discussed in Sections 1.5.1 and 1.5.2.

1.5.1 Arsenic in Soil

Background samples for arsenic in soil were collected for the *Western Development Area's Phase 1 and 2 Site Assessment Report* (DuPont 2004) from the Cline vineyards, including samples from the site.

The *Phase 1 Soil RFI Report* (DuPont 2006) indicates that "due to the uncertainty of background values for the site," the Concord Naval Weapons Station (CNWS) background values were incorporated into their background dataset. DuPont selected the lesser value between the background concentration determined for the CNWS and two times the 99th percentile of the modified dataset. The CNWS background value for arsenic was 29 milligrams per kilogram (mg/kg) and DuPont calculated background for arsenic to be 19 mg/kg based on two times the 99th percentile of the modified dataset. This evaluation uses 19 mg/kg as the screening level.

1.5.2 Dioxins in Soil

In May 2009, the DTSC released a Human Health Risk Assessment (HHRA) regarding toxic equivalents (TEQs) for dioxins. The HHRA (DTSC 2009) describes remedial goals for sites located in California. In the HHRA, the DTSC indicated that a remedial goal of 200 to 1,000 parts per trillion (ppt) would be used as a guideline. For this evaluation, TEQs for dioxins were screened against the lower value of 200 ppt.

2. Field Activities

All soil and groundwater sampling activities described in this report were conducted on the site (the 21.95 acre parcel). To contour groundwater elevations in the area water levels were measured in selected pre-existing off-site monitoring wells with permission from DuPont.

2.1 Soil Sampling

2.1.1 Soil Sampling Procedures

Initially, sixty-nine soil borings were advanced between October 19 and October 23, 2009 using a hand auger and, for borings deeper than 5 feet, a direct-push rig. Soil samples were also collected from a selection of locations where cone penetrometer tests (CPTs) and monitoring wells were installed. Soil samples were collected at each boring location at various intervals: either 0 to 1, 3 to 5 and/or 10 to 15 feet below ground surface (bgs). After receiving the results for these samples, an additional four soil borings were advanced on December 3, 2009 to a depth of 10 feet near a detection of polychlorinated biphenyls (PCBs) at CPT-4 and to a depth of 5 feet in six locations near the highest detected concentrations of Acetone. Samples at these locations were collected at approximately 0 to 1, 3 to 5, and, at deeper borings, 10 to 15 feet.

Soil samples were collected in glass jars and/or using Terra Core samplers depending on boring depth and associated analytes. Soil boring samples were collected in the following areas: Sierra Crete Test Roads, railroad spurs, agricultural areas and near the former auto shop, hazardous materials storage building, and former suspected UST. Table 1 lays out the proposed sampling plan used to determine the analysis. Soil boring logs are included in Appendix A.

2.1.2 Soil Analysis

Soil samples collected were analyzed for diesel range organics (DROs) by United States Environmental Protection Agency (USEPA) Method 8015B, VOCs by USEPA Method 8260B, semi volatile organic compounds (SVOCs) by USEPA method 8270, poly aromatic hydrocarbons (PAHs) by USEPA Method 8270C, organochlorine pesticides by USEPA Method 8081, organophosphorus pesticides by USEPA Method 8141/614, PCBs by USEPA Method 8082, Priority Pollutant (PP) metals (including mercury) using USEPA Method 6010B/7470/7471, and dioxins and furans by USEPA

Method 8280. Table 1 presents the analysis plan for field activities; results are presented in Tables 4A through 4H.

Lithologic logging was performed at each location to provide lithologic information from inspection and classification of soil cuttings; results are recorded on a Soil Boring Log (Appendix A). Soil classification was performed in accordance the American Society for Testing and Materials (ASTM) D2488 Standard Practice for Description and Identification of Soil (Visual-manual Procedure).

2.2 Grab Groundwater Sampling

2.2.1 Cone Penetrometer Testing

CPT borings provide detailed lithologic data that can be used to identify permeable zones and can be used to collect grab groundwater samples using the Hydropunch method. ARCADIS conducted CPT borings using a piezocone connected by stainless steel rods to a hydraulic system that pushes the piezocone through the soil. The piezocone measures friction, tip resistance and pore pressure, which are logged and used to evaluate soil types on a nearly continuous geologic log. The CPTs were completed in accordance with the revised (2002) ASTM standards. CPT logs are provided in Appendix B.

2.2.2 CPT Locations

CPT borings were completed on-site adjacent to the following areas of the DuPont Property:

- ***Auto Shop***. Samples were collected in the two shallow water-bearing zones (approximately between 6 to 48 feet bgs) near the auto shop.

- ***Gasoline Tanks***. Samples were collected from the two shallow water-bearing zones (approximately 6 to 48 feet bgs) near the suspected UST and AST.

- ***Hazardous Waste Storage Area***. Samples were collected in the two shallow water-bearing zones (approximately between 6 to 48 feet bgs) near the hazardous waste storage area.

- ***Sandblasting Area***. Samples were collected in the two shallow water-bearing zones (approximately between 6 to 48 feet bgs) in the sandblasting area.

- ***Titanium Dioxide Landfill***. Samples were collected in the two shallow water-bearing zones (approximately between 6 to 48 feet bgs) near the landfill. The goal in this area is to evaluate the extent of VOCs and dioxins near the landfill.

2.2.3 Groundwater Analysis

Grab groundwater samples collected using the Hydropunch method at the CPT locations were analyzed for DROs by USEPA Method 8015B, low-level VOCs using USEPA Method 8260B, SVOCs and PAHs by USEPA Method 8270C, organochlorine pesticides by USEPA Method 8081, organophosphorus pesticides by USEPA Method 8141/614, and PP metals (include mercury) by USEPA Method 6010B/7470/7471. Table 1 presents the analysis plan; results are presented in Tables 5A through 5F.

2.3 Monitoring Well Installation

2.3.1 Groundwater Monitoring Well Installation

Eleven groundwater monitoring wells were installed at six locations identified on Figure 2. The groundwater monitoring wells appear in clusters of one to three wells at each location. The maximum depth of the wells was 140 feet bgs. Well construction details are included in Table 2. The wells were used to collect chemical data and to evaluate the potential influence that redevelopment activities may have on the DuPont Property. The wells were installed at the following four general areas:

- ***Northern Boundary***. Three locations lie along the northern boundary and include wells RAD MW-1S, 1U, 1L, RAD MW-2S and RAD MW-3S.

- ***PG&E Antioch Gas Transfer Station***. The well located in this area is RAD MW-4S. This well was installed at the most upgradient area of the site.

- ***Sandblast Area***. Wells RAD MW-5S and 5U were installed near the sandblast area.

- ***Within the Vineyards***. Wells were installed in the vineyards to help evaluate hydraulic conditions at the site. These wells are identified as RAD-MW-6S, 6U and 6L.

Lithologic logging was performed periodically for each well location to provide site-specific stratigraphic data and to determine optimal well screen placement. Lithologic

information from inspection and classification of soil cuttings is recorded on a Soil Boring Log (Appendix A). Soil classification was performed in accordance ASTM methods.

2.3.2 Well Installation Procedures

Groundwater monitoring wells were constructed of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) well casing and milled slot screens. As-built construction details are recorded on a Soil Boring Log (Appendix A). Groundwater monitoring wells have aboveground completions to identify their location during future site activities.

2.3.3 Well Development Procedures

The monitoring wells were developed using a surge block to draw sediments through the formation to improve well efficiency. Approximately 10 casing volumes of water were extracted from each well with a bailer and/or a submersible pump. Field parameters, including pH, specific conductivity and temperature, were monitored during purging activities. The well development was considered complete when parameters stabilized (e.g., when consecutive readings are measured within the following limits: pH [± 0.1 units], temperature [3 percent] and specific conductivity [3 percent]). Well development forms are provided in Appendix C.

2.4 Baseline Groundwater Monitoring Well Sampling Water-Level Gauging

Following installation of the 11 monitoring wells, ARCADIS collected baseline samples from the newly installed monitoring wells. Wells were gauged prior to sampling and recorded on Groundwater Sampling Logs (Appendix D) and in Table 5.

The baseline samples were analyzed for DRO using USEPA Method 8015B, VOCs using USEPA Method 8260B, SVOCs using USEPA Method 8270C and PP metals (including mercury) by USEPA Method 6010B/7470/7471. The analysis plan is presented in Table 1; results are presented in Tables 4A through Table 4F.

2.5 Hydraulic Conductivity Testing

Hydraulic conductivity testing was performed following monitoring well installation and development at the 11 newly installed monitoring wells within the Surficial, Upper and Lower aquifers at the site. Short-duration single-well pumping tests were performed on the following wells:

- Surficial Aquifer: RAD-MW-1S, RAD-MW-2S, RAD-MW-3S, RAD-MW-4S, RAD-MW-5S and RAD-MW-6S
- Upper Aquifer: RAD-MW-1U, RAD-MW-5U, RAD-MW-6U
- Lower Aquifer: RAD-MW-1L, RAD-MW-6L

Tests were performed in general accordance with the ARCADIS SOP for Single Well Pumping Tests, as summarized in the *Draft Phase II Due Diligence Work Plan* (ARCADIS 2009), by measuring groundwater drawdown due to a constant pumping rate for approximately 30 to 60 minutes at each well. Water levels were measured before, during and after the test using a pressure transducer set to log water levels in 1-minute intervals. Surficial Aquifer wells were pumped using a peristaltic pump, generally at flow rates between 0.1 and 0.2 gallons per minute (gpm). Upper Aquifer and Lower Aquifer wells were pumped at flow rates between 3 and 5 gpm using a Grundfos submersible pump. With these flow rates, measurable drawdowns of approximately 0.3 feet to 3 feet were achieved.

2.6 Surveying

All wells were surveyed by a California-licensed surveyor for ground surface elevation, top of casing elevation and northing and easting coordinates consistent with the datum. Appendix F presents the documents received from the surveyor.

3. Results

3.1 Soil Analytical Results

3.1.1 Soil Boring Samples

Soil samples were collected from 69 locations at various depths using either the hand auger or a direct-push geoprobe. Samples were analyzed for DRO, VOCs, SVOCs, PAHs, PCBs, organochlorine pesticides, herbicides, , metals and dioxins and furans by the methods described in Section 2.2.3. Figure 2 illustrates the locations of these borings. Tables 3A through 3H summarize sampling intervals and analytical detections. Detections are illustrated on Figures 4A through 4G. Figure 4H illustrates the results that exceed the residential ESLs. Results are summarized below:

- Various metals (antimony, arsenic, beryllium, chromium, copper, lead, nickel, silver and zinc were detected in the majority of soil samples analyzed. Figures 4A and 4B present the detections in the soil samples.

- DRO was detected in four soil borings, with concentrations ranging from 5.5 mg/kg to 16 mg/kg. Acetone was detected in multiple locations with concentrations ranging from 46 mg/kg to 200 mg/kg. Acetone is often observed as a laboratory contaminant. Based on the concentrations, review of lab quality control samples, and past detections of acetone at the site, these detections are likely representative of site conditions. 2-Butanone was detected in three soil borings (SB-18, SB-34 and SB-35). Figure 4C presents the detections of DROs and VOCs in soil.

- SVOCs and PAHs were detected in soil borings SB-3, SB-7, SB-10, SB-11 and SB-15 at low concentrations. Figure 4d presents the detections of SVOCs and PAHs.

- PCBs were detected in the form of Aroclor-1248 and detected in three borings at concentrations ranging from 20 micrograms per kilogram (µg/kg) to 50 ug/kg. Figure 4E presents the detections of PCBs.

- Pesticides and herbicides dichlorodiphenyltrichloroethylene (4,4'- DDE), dichlorodiphenyltrichloroethane (4,4-DDT), and methoxychlor were detected in the agricultural areas. Figure 4F presents the detections of pesticides and herbicides.

- Dioxins and furans were detected at the site in multiple borings. Figure 4G presents the detections of dioxins and furans.

Additional soil borings were advanced in select areas to confirm the presence of PCBs and select VOCs.

- Eight soil borings (SB-4A, SB-18A, SB-19A, SB-21A, SB-34A, SB-38A, SB-40A and SB-68A) were advanced near their respective soil boring ID at 2 depths (1 and 5 feet bgs) to confirm the acetone detections. Acetone was detected at concentrations below the previous detection or below the laboratory reporting limits which are below the residential ESLs. Soil concentrations ranged from non-detect to 91 ug/kg. Table 3B presents the results of this supplemental investigation.

- Eight soil borings (SB-CPT-4A, SB-CPT-4N1, SB-CPT-4N2, SB-CPT-4W1, SB-CPT-4W2, SB-CPT-S1 AND SB-CPT-4S2) were advanced near CPT-4 at various distances (10 feet and 20 feet). Soil samples were collected from 3 discrete depth intervals (1, 5, and 10 feet bgs) to confirm the presence of Aroclor-1248. VOCs were also analyzed for these samples. All results were below the laboratory reporting limits. Table 3E presents the results from this supplemental investigation.

3.1.2 CPT Soil Samples

Soil samples were collected from 12 CPT borings at various depths using a hand auger. Sample were analyzed for DROs, VOCs, SVOCs, PAHs, organochlorine pesticides, metals and dioxins and furans by the methods described in Section 2.2.3. Figure 2 illustrates the locations of these borings. Tables 3A through 3H summarize sampling intervals and analytical detection results.

- Acetone was detected at borings CPT-3 and CPT-5, with concentrations ranging from 55 µg/kg to 84 µg/kg. Acetone is often observed as a laboratory contaminant. Based on the concentrations, review of lab quality control samples, and past detections of acetone at the site, these detections are likely representative of site conditions.

- Aroclor-1248 was detected in two CPT borings at concentrations ranging from 29 µg/kg (CPT-5 at 1 to 1.5 feet bgs) to 1,600 µg/kg (CPT-4 at 4.5 to 5 feet bgs).

3.1.3 Comparison with Screening Levels

Of the soil samples analyzed, only Aroclor-1248 was detected at a concentration exceeding the screening level at one location. Aroclor-1248 was detected in CPT-4 (4.5 to 5 feet bgs) at 1,600 µg/kg. The residential ESL for PCBs is 220 µg/kg.

3.2 Groundwater Analytical Results

3.2.1 CPT (Grab) Samples

Grab groundwater samples collected from CPT-1 through CPT-6, CPT-10 and CPT-11 using the hydropunch method were analyzed for DROs, VOCs, SVOCs, PAHs, organochlorine pesticides and metals using the methods described in Section 2.2.3. Figure 2 illustrates the locations of these borings. Sampling intervals and analytical results are presented in Tables 4A through 4F and summarized below:

- Three metals (arsenic, selenium and zinc) were detected in samples collected at CPT locations. Figure 5A presents the results for metals. Arsenic was detected at CPT-1, CPT-3 and CPT-10 at concentrations ranging between 10 and 15 µg/L. The detections occurred at one discrete interval for each location. Zinc was detected at CPT-3, CPT-4 and CPT-10, at concentrations ranging between 10 to 30 µg/L. Selenium was detected at CPT-6 at a depth of 67 feet and at a concentration of 43 µg/L.

- DRO and VOC results are summarized in Table 4B. Detections are shown on Figure 5B. Acetone was detected at concentrations varying from 11 to 16 µg/L at CPT-2, CPT-6, CPT-10 and CPT-11. Carbon tetrachloride was detected at CPT-3, CPT-4 and CPT-6, with its highest concentrations found at CPT-4 (19 µg/L). CPT-5 had detections of several VOCs at 15 feet, these compounds were not detected at 23 feet.

- Figure 5C shows the only location where SVOCs was detected. CPT-5 had detections of naphthalene, 1-methylnaphtalene and 2-methylnapthtalene, with a maximum concentration of 2.2 µg/L for naphthalene. These detections were only observed at one location (15 feet) of the two vertical intervals sampled.

3.2.2 Monitoring Well Samples

On November 13, 2009, groundwater samples were collected from the 11 monitoring wells installed at the site. The locations of these wells are depicted on Figure 2. Six wells were constructed in the Surficial Aquifer; three of these locations contain clusters with monitoring intervals in the Upper Aquifer and the Lower Aquifer. Groundwater samples collected from these monitoring wells were analyzed for DROs, VOCs, SVOCs and metals using methods described in Section 2.4.

- The only three metals (arsenic, selenium and zinc) that were detected in the grab samples were also the only metals detected in the monitoring wells, as depicted on Figure 5A. Arsenic was only detected at RAD-MW-3S. Zinc and selenium were detected at RAD-MW-1 and RAD-MW-6

- DRO and VOC results are summarized in Table 4B. Detections are shown on Figure 5B. Acetone, carbon tetrachloride and chloroform were detected at concentrations similar to those observed in the grab samples. Bromodichloromethane, bromoform and dibromochloromethane were detected in several locations.

- No SVOCs were detected in any of the samples.

3.2.3 Comparison with Screening Levels

Arsenic, selenium and zinc were detected below the Drinking Water ESLs at all locations..

Carbon tetrachloride was detected in wells RAD-MW-3S and RAD-MW-5S above the Drinking Water ESLs (0.5 µg/L).

Figure 5D shows the locations where analytical results exceed ESLs.

3.3 Hydraulic Conductivity Testing Results

Data collected during the hydraulic conductivity tests were used to calculate hydraulic conductivity values for the water-bearing units at the site.

Pumping test data were analyzed using AQTESOLV™ computer software. A trained hydrogeologist used the software to fit the field data with various theoretical methods,

including the Theis method (1935) and the Cooper-Jacob (1946) method. In all cases, the Cooper-Jacob method achieved a better match with the data and was used to calculate the aquifer parameters. AQTESOLV™ output for each data set is included in Appendix G.

The data were also analyzed using the specific-capacity method, which approximates the aquifer parameters by calculating the specific capacity of the monitoring well. The Walton technique (Walton 1962) was used to correlate the specific capacity to hydraulic conductivity. The spreadsheet used to calculate hydraulic conductivity by the specific capacity method is included in Appendix G.

These two independent techniques for evaluating field data to calculate hydraulic conductivity were used to cross check the results and were averaged together to represent the hydraulic conductivity of the aquifer in the vicinity of each well screen interval. The geometric mean of the average of hydraulic conductivity computed by these two methods for each aquifer was then used to represent the aquifer parameter in subsequent Darcy-flux calculations. The hydraulic conductivity values calculated are summarized in Table 6.

The Surficial Aquifer presented some spatial variability (approximately one order of magnitude) in the estimated hydraulic conductivity values, likely related to the occurrence of a silt and clay layer that underlies the Surficial Aquifer. The hydraulic conductivity was found to be generally lower than the Upper or Lower aquifers, with a representative hydraulic conductivity of 8.13 feet/day.

The Upper Aquifer was found to have the highest hydraulic conductivities at the site, with a representative hydraulic conductivity of 227 feet/day.

The Lower Aquifer had two hydraulic conductivity estimates based on the hydraulic testing conducted at MW-1L and MW-6L, resulting in a hydraulic conductivity of 4.1feet/day and 80.6 feet/day, respectively. The difference between these two estimates correlates well with the information collected during well logging (MW-6 presented more gravels and coarser material than the sands found at MW-1L for the same screen interval).

3.4 Water-Level Monitoring Results

The field investigation included two rounds of water-level measurements at the site and the DuPont property. Water levels were measured at 10 monitoring wells and one

piezometer in the Surficial Aquifer, seven monitoring wells in the Upper Aquifer and nine monitoring wells in the Lower Aquifer, for a total of 27 measurements during each of the water-level sampling rounds. Each of the measurement rounds was completed in 1 day. The measurements were obtained on November 19 and November 23, 2009. Table 1 presents the results of the field investigation.

4. Site Characterization

Based on the field activities described in Section 2, the results obtained and presented in Section 3, and existing information regarding the broader conceptual site model for the DuPont Property (DuPont 2003), this section describes the conceptual site model (CSM).

Hydrogeology at the site was interpreted based on information collected during well drilling and CPT logging, groundwater elevation measurements, hydraulic conductivity measurements at site monitoring wells, and hydrogeologic information available for the adjacent DuPont Facility. Site Boring Logs are provided in Appendix A.

Hydrogeology at the adjacent DuPont Property has been reported as consisting of five hydrostratigraphic units, as follows:

1. Surficial Aquifer, from approximately 0 to 20 feet bgs

2. Upper Aquitard, from approximately 20 to 40 feet bgs

3. Upper Aquifer from approximately 40 to 100 feet bgs

4. Lower Aquifer from approximately 100 to 125 feet bgs

5. Montezuma Formation, a regional-scale aquitard, at approximately 125 feet bgs

This interpretation of hydrogeology was followed during site investigation activities and resulted in the following site monitoring well naming conventions:

“S” to designate wells screened in the Surficial Aquifer layer

“U” to designate wells screened in the Upper Aquifer layer

“L” to designate wells screened in the Lower Aquifer layer

However, as discussed in Section 5, site data collected in November 2009 indicate that the hydrogeologic system at the site can be conceptualized as a single heterogeneous aquifer.

Hydrogeology at the site consists of approximately 125 feet of unconsolidated fluvial deposits above a thick marine clay unit called the Montezuma formation (Figure 6). The unconsolidated fluvial deposits consist of a heterogeneous mixture of layers and lenses of gravel, sand, silt and clay. Groundwater was first encountered within the Surficial Aquifer layer beneath the site. Depth to groundwater was first encountered at approximately 15 feet bgs in the southern portion of the site and became shallower toward the northern portion of the site due to changes in site topography.

The Surficial Aquifer layer varied in thickness and was absent in some areas due to thickening of the underlying aquitard. The Surfical Aquifer layer reached a maximum thickness of approximately 20 feet at monitoring well cluster RAD-MW-6. Underlying the Surficial Aquifer layer is the Upper Aquitard layer, which varied in thickness from 10 to 20 feet. In the site boring logs, the Upper Aquitard layer was described as dark-yellowish-brown or grey clayey silt.

The Upper Aquifer layer was composed primarily of sand and gravel and had a thickness of approximately 60 to 70 feet. The site boring logs indicated the presence of lenses of silt and clay within the Upper Aquifer layer that could not be correlated between boreholes, indicating that the lenses were of limited extent. Hydraulic conductivity testing results indicate that the Upper Aquifer layer is the most permeable. A silt and clay layer was found that defines the transition between the Upper Aquifer and the Lower Aquifer layers. This silt and clay layer is consistent with the Upper/Lower Aquitard identified at the DuPont Property, but it appeared to pinch out south of monitoring well MW-6. The Lower Aquifer layer was encountered below the silt and clay layer.

Eleven groundwater monitoring wells were constructed at the site, as follows:

- six in the Surficial Aquifer layer
- three in the Upper Aquifer layer
- two in the Lower Aquifer layer

Hydraulic gradients near the site were evaluated by constructing groundwater-level contour maps for the Surficial, Upper and Lower aquifer layers to be consistent with the hydrostratigraphy interpreted at the adjacent DuPont Property (Figures 7A, 7B and 7C). As shown on Figure 7A, hydraulic gradients in the Surficial Aquifer layer were oriented toward the north near the central and western portion of the site and toward

the northeast near the eastern portion of the site. The horizontal hydraulic gradient in this unit was approximately 0.0013 based on the November 2009 dataset. Hydraulic conductivity measurements of the Surficial Aquifer layer varied between approximately 1 and 36 feet/day and averaged approximately 8 feet/day (Table 6). Results indicate the Surficial Aquifer layer is heterogeneous with regard to groundwater flow and that the heterogeneity is associated with the interbedded lenses of silt and sand layers deposited under fluvial conditions.

As shown on Figure 7B, hydraulic gradients in the Upper Aquifer layer were oriented north toward the San Joaquin River with a horizontal hydraulic gradient of approximately 0.001 based on the November 2009 dataset. Hydraulic conductivity measurements of the Upper Aquifer layer varied between approximately 97 and 486 feet/day and averaged approximately 227 feet/day (Table 6). Results indicate the Upper Aquifer layer is the most permeable layer beneath the site and that it is heterogeneous with regard to groundwater flow.

As shown on Figure 7C, hydraulic gradients in the Lower Aquifer were oriented northeast toward the San Joaquin River with a horizontal hydraulic gradient of approximately 0.001 based on the November 2009 dataset. Hydraulic conductivity measurements of the Lower Aquifer layer varied between approximately 4 and 81 feet/day and averaged approximately 16 feet/day (Table 6). Results indicate that the Lower Aquifer layer is heterogeneous with regard to groundwater flow.

The density of data used to depict the potentiometric surfaces of the Upper and Lower aquifers is much lower than the density used in the potentiometric surface for the Surficial Aquifer.

Vertical groundwater flow at the site appears to have been negligible in November 2009, probably because the fluvial deposits that comprise the aquifer system exert significant horizontal anisotropy and November is between the wet and dry seasons. This interpretation is supported by groundwater-level measurements at site monitoring well clusters RAD-MW-1 and RAD-MW-6, which indicate only slight vertical hydraulic gradients (Figure 6). However, vertical groundwater flow at the site could exhibit seasonal variability between summer and winter months due to changes in precipitation and EVT rates.

5. Hydrogeologic Evaluation

5.1 Introduction

This section evaluates potential changes to groundwater due to changes in land use resulting from site redevelopment and as a result of construction dewatering likely to occur. This evaluation is based on a combination of site data collected in November 2009 and public hydrology data for the Oakley area. Data used in this evaluation include:

- groundwater-level measurements collected at 11 on-site and 16 off-site monitoring wells (Table 5)
- continuous water-level monitoring data collected at five on-site monitoring wells (Appendix G)
- hydraulic conductivity measurements at 11 on-site monitoring wells (Table 6)
- hydrologic data for Oakley, California (Table 7)

5.2 Conceptual Site Model

The site consists of a 21.95-acre vineyard with approximately 63 percent of the site area covered with mature grape vines, 4 percent of the site area covered with eucalyptus trees and 33 percent of the site as idle land (Table 7). The site receives an average of 13.3 inches of rainfall annually, with most rainfall occurring between November and March (Table 7). Mature grape vines and eucalyptus trees can produce up to approximately 44.8 and 41.8 inches of EVT annually, respectively, with most EVT occurring between April and September. EVT rates for 1997, which is considered a typical year, for mature grape vines near the site are available at the Irrigation Training and Research Center (ITRC) of California Polytechnic State University, San Luis Obispo (Table 7). EVT rates for eucalyptus trees in Oakley were estimated from irrigation requirements to maintain healthy, mature trees in southern California as reported by Haver (2009).

The site is underlain by a horizontally layered, unconsolidated mixture of alluvial sand, silt and clay, which exist as a series of overlapping pinching lenses and form an approximately 125-foot-thick aquifer (Figure 6). At the adjacent DuPont Property, the aquifer has been divided into three layers: the Surficial, Upper and Lower aquifers.

The monitoring well installation strategy at the site followed the aquifer layering convention used at DuPont. Hydraulic conductivity of the aquifer had a mean of 23.3 feet/day and was found to vary more than 2½ orders of magnitude (Table7).

Site data indicate that the aquifer can be conceptualized as a single, heterogeneous aquifer underlain by an approximately horizontal aquitard of semiregional extent. Groundwater level changes at the site were monitored at four monitoring wells (RAD-MW-2S, RAD-MW-6S, RAD-MW-6U and RAD-MW-6L) in November 2009 using automated data-logging pressure transducers (Appendix G). The wells were screened in the Surficial, Upper and Lower aquifer. Groundwater-level data were recorded over time periods of 4 to 10 days at 5-minute recording intervals. The data showed measurable, rhythmic groundwater elevation fluctuations on the order of approximately 0.03 feet that could be due to EVT or tidal fluctuations in the San Joaquin River. The San Joaquin River is located approximately 1,500 feet north of the site and fluctuates on the order of 5 feet with the tides. EVT is expected to be at a yearly low in November (Table 7). The continuous groundwater monitoring data indicate that all levels within the aquifer appear to respond similarly to hydraulic stresses such as EVT and tidal surface-water fluctuations, and that the aquifer is hydraulically connected vertically. The groundwater data appear to be strongly correlated with surface-water levels at the San Joaquin River during part of the monitoring period, suggesting that groundwater at the site is influenced by tidal changes. However, some of the anomalous groundwater fluctuations could be due to minor EVT in November.

The site redevelopment plan involves removing the vineyard and constructing power generation station infrastructure, including concrete pads, paved driving surfaces and stormwater management structures. Based on a review of Grading and Drainage – Site Plan – Sheet 1, Drawing Number 163994-SS-3001, provided by Black & Veatch (2009), redevelopment of the site would result in converting portions of the site to impervious cover, with the remainder of the site covered by eucalyptus trees and idle land, including paved areas. Under the redevelopment plan, stormwater would be collected by a series of bioswales, allowed to infiltrate, and the excess routed to an existing infiltration pond on the west side of the site.

5.3 Anticipated Future Conditions

Under anticipated future land use conditions, rainfall at the site is not expected to change. However, the site is estimated to evapotranspire less water due to the replacement of the vineyard with impervious cover. This represents a reduction in EVT that could occur as a result of anticipated site redevelopment activities. The water

surplus will occur in the form of stormwater runoff, which is planned to be diverted to bioswales and an infiltration pond on the western portion of the site, where most of the runoff will enter the groundwater system as focused recharge during seasonal rainfall events. Focused recharge can result in potentiometric mounding and changing groundwater flow directions.

Results indicate that EVT likely has an important influence on current site conditions because the site is not irrigated and the vineyards must draw water from the aquifer through deep root systems. During winter months, net recharge to the aquifer is positive.

Changes to site EVT patterns after redevelopment could affect the aquifer in three important ways:

1. Volumetric groundwater flow rates, or mass flux, may increase in the aquifer downgradient of the site.

2. Groundwater flow velocities in the aquifer may increase.

3. Hydraulic gradient directions may change.

These possible changes would be most pronounced following rain events and during periods of the year when EVT rates are most changed from the current conditions. Potential changes would be most noticeable immediately downgradient of the site and are expected to dampen further north onto the DuPont Property. However, the magnitude of these changes is most likely within the range of observed seasonal variability currently observed, but in worst case scenarios may increase for short duration.

These effects would be permanent and recur year after year. Periodic groundwater elevation monitoring at the site would be an effective means of observing unexpected changes in conditions that could result in the need for mitigation that is protective of downgradient conditions and remedial infrastructure.

5.4 Construction Dewatering

Dewatering pumping rates were estimated based on a range of hydraulic conductivities between 0.8 feet/day and 49 feet/day, an assumed surficial aquifer thickness of approximately 10 feet, and a 15-foot square excavation that extends a maximum of 8

feet below groundwater. Pumping in the range of 2 - 40 gallons per minute (gpm) would successfully dewater the excavation in approximately 1 week. The most likely scenario indicates pumping at approximately 10 gpm. It is assumed that dewatering would be performed once at each location for approximately 30 days during construction activities.

At 10 gpm the effects of pumping on groundwater elevation could be observed as far as 200 feet away. For the planned excavation locations, this distance would be within the site boundary or a short distance onto the DuPont Property. The effects in the vicinity of the primary DuPont plumes would be minimal and the effect of short term construction dewatering would not be observed at DuPont's permeable reactive barrier (PRB) remedy.

6. Conclusions

6.1 Soil and Groundwater Analysis

Conclusions regarding the nature and extent of COCs at the site include:

- Several chemicals were detected above the laboratory's method detection limits (MDLs) in the site soil samples.
- Of these, only PCBs were detected in soil above relevant screening levels in one soil sample at one location.
- Several chemicals were detected above the laboratory's MDLs in the site groundwater samples.
- Of these, only DRO and carbon tetrachloride were detected in groundwater above relevant screening levels in 8 locations, 6 of these in the northeast area of the site where DuPont conducted industrial activities in the past.

6.2 Hydrogeologic Analysis

Conclusions regarding potential long- and short-term hydrogeologic effects of the redevelopment on groundwater flow at and near the site include the following.

- The site could experience a reversal of the recharge conditions at the site, from net negative to net positive recharge.

- Redevelopment of the site could temporarily add groundwater to the aquifer during the rainy season, which could result in short-term localized hydraulic gradient changes.

- Groundwater flow rates leaving the site could increase as a result of the substantially reduced EVT.

- Groundwater flow rates leaving the site could temporarily increase when EVT rates would be most changed from current conditions during summer months.

- These changes may be significant for short periods of time, particularly at and near the site, and are expected to dampen downgradient.

- The magnitude of these changes in the vicinity of the PRB remedy at the DuPont Property are most likely to be within the typically observed seasonal, tidal, and daily fluctuations from other drivers.

- Construction dewatering of the planned excavations are estimated to have a limited effect on groundwater flow direction and velocity. These effects are expected to be limited to within the Site boundary or a short distance onto the DuPont Property.

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Table 1. Proposed Analysis Plan, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Area of Investigation		Depths/Zones	Media	DRO	Low Level VOCs	SVOCs	PAHs	Organochlorine Pesticides	Organophosphorus Pesticides	PCBs	TEL	PP Metals	Dioxins and Furans
				(USEPA 8015B)	(USEPA 8260B/5035)	(USEPA 8270C)	(USEPA 8270C/8310)	(USEPA 8081)	(USEPA 8141/614)	(USEPA 8082)	DHS LUFT	(USEPA 6010B/7470/7471)	(USEPA 8280)
Northern Boundary	Well Cluster 1	Various	Soil	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
	Well Cluster 2	Various	Soil	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
	Well Cluster 3	Various	Soil	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
	CPT-5	0-1 and 3-5	Soil	✓ ✓	✓ ✓	✓ ✓	✓ ✓			✓ ✓		✓ ✓	
	CPT-5	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓		✓	✓	
	CPT-5	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-6	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓		✓	✓	
	CPT-6	upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-6	0-1 and 3-5	Soil	✓ ✓	✓ ✓	✓ ✓	✓ ✓			✓ ✓		✓ ✓	
	CPT-7	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓		✓	✓	
	CPT-7	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-8	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓		✓	✓	
	CPT-8	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	SB-9	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	
	SB-10	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	
Sierra Crete Test Roads	SB-16	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-18	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-26	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-26	3 - 5 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-27	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-28	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-28	3 - 5 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-29	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-30	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-31	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-32	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-33	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-34	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-35	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-35	3 - 5 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-36	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-37	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-38	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-38	3 - 5 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-39	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-40	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-41	0 - 1 feet bgs	Soil	✓	✓			✓	✓			✓	✓
	SB-41	3 - 5 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
	SB-42	0 - 1 feet bgs	Soil	✓	✓			✓	✓		✓	✓	✓
Argicultural Use (West)	SB-1	0 - 1 feet bgs	Soil		✓			✓	✓				✓
	SB-2	0 - 1 feet bgs	Soil		✓			✓	✓				✠
	SB-3	0 - 1 feet bgs	Soil		✓	✓	✓	✓	✓	✓		✓	✓
	SB-11	0 - 1 feet bgs	Soil		✓	✓	✓	✓	✓	✓		✓	✠
	SB-12	0 - 1 feet bgs	Soil		✓	✓	✓	✓	✓	✓		✓	✓
	SB-20	0 - 1 feet bgs	Soil		✓	✓	✓	✓	✓	✓		✓	✓

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Table 1. Proposed Analysis Plan, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Area of Investigation		Depths/Zones	Media	DRO	Low Level VOCs	SVOCs	PAHs	Organochlorine Pesticides	Organophosphorus Pesticides	PCBs	TEL	PP Metals	Dioxins and Furans
				(USEPA 8015B)	(USEPA 8260B/5035)	(USEPA 8270C)	(USEPA 8270C/8310)	(USEPA 8081)	(USEPA 8141/614)	(USEPA 8082)	DHS LUFT	(USEPA 6010B/7470/7471)	(USEPA 8280)
Argicultural Use (East)	CPT-10	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-10	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-12	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-12	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	SB-12	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-13	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-14	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-14	10 - 15 feet bgs	Soil		✠	✠							
	SB-15	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-15	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓			✓	✠
	SB-16	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-16	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✠
	SB-17	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-21	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-21	10 - 15 feet bgs	Soil		✠	✠							
	SB-22	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-22	10 - 15 feet bgs	Soil		✠	✠							
	SB-23	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-24	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-24	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✠
	SB-25	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-43	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-44	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-44	10 - 15 feet bgs	Soil		✠	✠							
	SB-45	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-45	10 - 15 feet bgs	Soil		✓	✓							
	SB-46	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-46	10 - 15 feet bgs	Soil		✠	✠							
	SB-47	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓	✓	✓	✓
	SB-48	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓	✓	✓	✓
	SB-48	3 - 5 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✠
	SB-49	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✓
	SB-50	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✓
	SB-51	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-51	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✠
	SB-52	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✓
	SB-53	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✓
	SB-54	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✓
	SB-55	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓	✓	✓	✓
	SB-55	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✠
	SB-56	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-57	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓	✓	✓	✓
	SB-58	0 - 1 feet bgs	Soil		✠	✠		✓	✓	✓		✓	✓
	SB-59	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-59	3 - 5 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✠
	SB-62	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-62	10 - 15 feet bgs	Soil	✓	✓	✓					✓	✓	
	SB-63	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-63	10 - 15 feet bgs	Soil	✓	✓	✓					✓	✓	
	SB-64	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-64	10 - 15 feet bgs	Soil	✓	✓	✓					✓	✓	
	SB-65	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-65	10 - 15 feet bgs	Soil	✓	✓	✓					✓	✓	
	SB-66	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-66	10 - 15 feet bgs	Soil	✓	✓	✓					✓	✓	
Railroad Spurs	SB-5	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-6	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-19	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-60	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	SB-61	0 - 1 feet bgs	Soil	✓	✓	✓		✓	✓	✓		✓	✓
	CPT-1	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-1	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	

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Table 1. Proposed Analysis Plan, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Area of Investigation		Depths/Zones	Media	DRO (USEPA 8015B)	Low Level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/614)	PCBs (USEPA 8082)	TEL DHS LUFT	PP Metals (USEPA 6010B/7470/7471)	Dioxins and Furans (USEPA 8280)
Perimeter	Well Cluster 4	Various	Soil	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
	Well Cluster 5	Various	Soil	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
	CPT-2	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-2	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-3	0-1 and 3-5	Soil	✓ ✓	✓ ✓	✓ ✓	✓ ✓			✓ ✓		✓ ✓	
	CPT-3	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-3	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-4	0-1 and 3-5	Soil	✓ ✓	✓ ✓	✓ ✓	✓ ✓			✓ ✓		✓ ✓	
	CPT-4	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-4	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	CPT-9	Surficial aquifer	Groundwater	✓	✓	✓	✓	✓	✓			✓	
	CPT-9	Upper aquifer	Groundwater	✓	✓	✓	✓					✓	
	SB-4	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-7	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-8	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-10	0 - 1 feet bgs	Soil	✓	✓	✓	✓	✓	✓	✓		✓	✓
	SB-67	0 - 1 feet bgs	Soil	✓	✓	✓	✓			✓		✓	
	SB-68	0 - 1 feet bgs	Soil	✓	✓	✓	✓			✓		✓	
	SB-69	0 - 1 feet bgs	Soil	✓	✓	✓	✓			✓		✓	
GW to be analyzed				22	22	22	22	11	11	0	0	22	0
To be analyzed				**96**	**111**	**109**	**22**	**96**	**96**	**80**	**46**	**110**	**85**
to be placed on hold					**15**	**15**							**9**
Sample grand total				**118**	**148**	**146**	**44**	**107**	**107**	**80**	**46**	**132**	**94**

Notes:
DRO = Diesel Range Organics.
PAHs = Poly aromatic hydrocarbons.
PCBs = poly chlorinated byphenols.
PP Metals = Priority Pollutants.
SVOCs = semivolatile organic compounds, including tentatively identified compounds (TICs).
USEPA = United States Environmental Protection Agency.
VOCs = volatile organic compounds, including methyl tertiary butyl ether (MTBE), oxygenates, and TICs.
✠ Place on hold until results are received (30 day hold time).
✓ To be anlayzed.
TEL = Tetra-ethyl lead.
GW = Groundwater.
USEPA = United States Environmental Protection Agency.

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Table 2. Well Construction Details, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Well ID	Date	Boring Depth (ft bgs)	Total Depth (ft bgs)	Well Diameter (inches)	Blank Casing (ft bgs)	Casing Type	Screen Interval (ft bgs)	Screen Type	Sand Pack (ft bgs)	Sand Type	Bentonite (ft bgs)	Grout (ft bgs)	Grout Type
RAD MW-1S	10/28/2009	15	15	2	0 to 5	PVC Sch. 40	5 to 15	Milled Slot	4 to 15	#2/12	1 to 4	0 to 1	Portland II/V
RAD MW-1U	10/27/2009	80	77	2	0 to 72 77 to 80	PVC Sch. 40	72 to 77	Milled Slot	68 to 77	#2/12	62 to 68	0 to 62	Portland II/V
RAD MW-1L	10/26/2009	140	105	2	0 to 100 105 to 140	PVC Sch. 40	100 to 105	Milled Slot	97 to 140	#2/12	91 to 97	0 to 91	Portland II/V
RAD MW-2S	10/29/2009	18	18	2	0 to 8	PVC Sch. 40	8 to 18	Milled Slot	6 to 18	#2/12	3 to 6	0 to 3	Portland II/V
RAD MW-3S	10/29/2009	18	18	2	0 to 8	PVC Sch. 40	8 to 18	Milled Slot	6 to 18	#2/12	3 to 6	0 to 3	Portland II/V
RAD MW-4S	10/29/2009	15	15	2	0 to 5	PVC Sch. 40	5 to 15	Milled Slot	4 to 15	#2/12	1 to 4	0 to 1	Portland II/V
RAD MW-5S	10/29/2009	18	18	2	0 to 8	PVC Sch. 40	8 to 18	Milled Slot	6 to 18	#2/12	3 to 6	0 to 3	Portland II/V
RAD MW-5U	10/28/2009	85	67	2	0 to 60 67 to 85	PVC Sch. 40	60 to 65	Milled Slot	57 to 65	#2/12	52 to 57	0 to 52	Portland II/V
RAD MW-6S	11/5/2009	25	25	2	0 to 5	PVC Sch. 40	5 to 25	Milled Slot	4 to 25	#2/12	2 to 4	0 to 2	Portland II/V
RAD MW-6U	11/3/2009	80	77	2	0 to 72 77 to 80	PVC Sch. 40	72 to 77	Milled Slot	70 to 77	#2/12	68 to 70	0 to 68	Portland II/V
RAD MW-6L	11/4/2009	105.5	105.5	2	0 to 100.5	PVC Sch. 40	100.5 to 105.5	Milled Slot	98 to 105.5	#2/12	96 to 98	0 to 96	Portland II/V

Notes:
ft bgs = feet below ground surface.
PVC = polyvinyl chloride.
Sch. = Schedule.

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Table 3A. Soil Analytical Results for Metals, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Organic Lead	Selenium	Silver	Thallium	Zinc
RAD MW-1	10/26/09	5	<0.750	**1.74**	<0.250	<0.500	**12.5**	**5.52**	**1.98**	<0.0835	**16.6**	<1.00	<0.750	<0.250	<0.750	**30.3**
SB-03	10/21/09	1	<0.750	**1.89**	<0.250	<0.500	**11.2**	**5.63**	**8.31**	<0.0835	**14**	---	<0.750	<0.250	<0.750	**22.8**
SB-04	10/19/09	8 inches	<0.750	**1.71**	<0.250	<0.500	**30.2**	**5.17**	**3.61**	<0.0835	**14.5**	---	<0.750	<0.250	<0.750	**16.9**
SB-05	10/22/09	1	<0.750	**2.01**	<0.250	<0.500	**11.8**	**15**	**4.96**	<0.0835	**14.5**	---	<0.750	<0.250	<0.750	**32.8**
SB-06	10/22/09	1	<0.750	**1.99**	<0.250	<0.500	**14.1**	**6.64**	**2.44**	<0.0835	**16.9**	---	<0.750	<0.250	<0.750	**19.4**
SB-07	10/21/09	1	<0.750	**2.11**	<0.250	<0.500	**14.3**	**13.4**	**5.21**	<0.0835	**17.3**	---	<0.750	<0.250	<0.750	**23.4**
SB-08	10/21/09	1	<0.750	**2.96**	<0.250	<0.500	**16.1**	**11.7**	**4.61**	<0.0835	**19.8**	---	<0.750	<0.250	<0.750	**30.8**
SB-09	10/21/09	1	<0.750	**1.77**	<0.250	<0.500	**11.8**	**4.42**	**1.67**	<0.0835	**16.5**	<1.00	<0.750	<0.250	<0.750	**13.1**
SB-10	10/20/09	5	<0.750	**2.13**	<0.250	<0.500	**16.2**	**6.69**	**2.19**	<0.0835	**18.8**	<1.00	<0.750	<0.250	<0.750	**19.3**
SB-11	10/21/09	1	<0.750	**1.99**	<0.250	<0.500	**12.9**	**7.2**	**5.23**	<0.0835	**16.6**	---	<0.750	<0.250	<0.750	**20.8**
SB-12	10/20/09	1	<0.750	**1.84**	<0.250	<0.500	**11.7**	**5.71**	**2.53**	<0.0835	**15**	---	<0.750	<0.250	<0.750	**19.1**
SB-13	10/20/09	1	<0.750	**1.7**	<0.250	<0.500	**9.4**	**4.84**	**3.71**	<0.0835	**12.4**	<1.00	<0.750	<0.250	<0.750	**17.4**
SB-14	10/23/09	1	<0.750	**1.46**	<0.250	<0.500	**11.1**	**6.95**	**10.4**	<0.0835	**14.1**	<1.00	<0.750	<0.250	<0.750	**22.3**
SB-15	10/21/09	1	<0.750	**2.08**	<0.250	<0.500	**13.9**	**7.94**	**5.78**	<0.0835	**17.4**	---	<0.750	<0.250	<0.750	**25**
		5	<0.750	**2.72**	<0.250	<0.500	**17.3**	**8.11**	**3.01**	<0.0835	**18.8**	---	<0.750	<0.250	<0.750	**23.9**
SB-16	10/19/09	8 inches	<0.750	**1.25**	**0.332**	<0.500	**27**	**5.49**	**7.15**	<0.0835	**12.8**	<1.00	<0.750	<0.250	<0.750	**18.7**
SB-17	10/21/09	1	<0.750	**2.42**	<0.250	<0.500	**19.6**	**9.2**	**4.4**	<0.0835	**22.6**	---	<0.750	<0.250	<0.750	**32.5**
SB-18	10/20/09	1	<0.750	**1.4**	<0.250	<0.500	**10.1**	**4.39**	**1.71**	<0.0835	**12.6**	---	<0.750	<0.250	<0.750	**13.5**
SB-19	10/22/09	1	<0.750	**2.72**	<0.250	<0.500	**13.1**	**9.27**	**4.05**	<0.0835	**16.4**	---	<0.750	<0.250	<0.750	**24.1**
SB-20	10/21/09	1	<0.750	**1.9**	<0.250	<0.500	**13.7**	**6.75**	**3.58**	<0.0835	**16.4**	---	<0.750	<0.250	<0.750	**20.4**
SB-21	10/23/09	1	<0.750	**1.23**	<0.250	<0.500	**8.96**	**4.43**	**6.57**	<0.0835	**13.1**	<1.00	<0.750	<0.250	<0.750	**17.6**
SB-22	10/22/09	1	<0.750	**1.9**	<0.250	<0.500	**12.6**	**6.84**	**2.53**	<0.0835	**16.3**	<1.00	<0.750	<0.250	<0.750	**21.1**
SB-23	10/20/09	1	<0.750	**1.95**	<0.250	<0.500	**12.8**	**7.01**	**3.03**	<0.0835	**15.4**	---	<0.750	<0.250	<0.750	**23.1**
SB-24	10/20/09	1	<0.750	**2.19**	<0.250	<0.500	**11.6**	**5.69**	**6.17**	<0.0835	**16.2**	---	<0.750	<0.250	<0.750	**21.4**
		5	<0.750	**1.72**	<0.250	<0.500	**12.9**	**5.9**	**1.94**	<0.0835	**15.9**	---	<0.750	<0.250	<0.750	**17.4**
SB-25	10/20/09	1	<0.750	**1.66**	<0.250	<0.500	**9.4**	**4.44**	**2.43**	<0.0835	**11.6**	---	<0.750	<0.250	<0.750	**15.8**
SB-26	10/19/09	8 inches	**4.57**	**0.922**	**1.12**	<0.500	**99.6**	**7.02**	**6.31**	<0.0835	**22.6**	<1.00	<0.750	<0.250	<0.750	**21.8**
		5	<0.750	**2.08**	**0.316**	<0.500	**14.8**	**7.62**	**3.62**	<0.0835	**20.1**	---	<0.750	<0.250	<0.750	**22.3**
SB-27	10/19/09	8 inches	**2.1**	**1.25**	**0.686**	<0.500	**62.6**	**6.4**	**7.12**	<0.0835	**18**	<1.00	<0.750	<0.250	<0.750	**20.8**
SB-28	10/19/09	1	<0.750	**1.79**	<0.250	<0.500	**11.8**	**7.45**	**3.83**	<0.0835	**14.8**	---	<0.750	<0.250	<0.750	**24.8**
		5	<0.750	**2.97**	<0.250	<0.500	**15.3**	**7.29**	**2.91**	<0.0835	**19.1**	---	<0.750	<0.250	<0.750	**21.5**
SB-29	10/19/09	1	<0.750	**1.68**	<0.250	<0.500	**12.1**	**7.63**	**4.17**	<0.0835	**16.1**	<1.00	<0.750	<0.250	<0.750	**23.3**
SB-30	10/19/09	8 inches	<0.750	**1.17**	**0.378**	<0.500	**29.7**	**5.35**	**5.15**	<0.0835	**14.6**	---	<0.750	<0.250	<0.750	**17.1**
SB-31	10/19/09	1	<0.750	**1.38**	**0.452**	<0.500	**34.5**	**5.77**	**6.5**	<0.0835	**16**	---	<0.750	<0.250	<0.750	**19**
SB-32	10/19/09	1	<0.750	**1.99**	<0.250	<0.500	**10.4**	**6.03**	**4.15**	<0.0835	**13.4**	<1.00	<0.750	<0.250	<0.750	**18.8**
ESLs for Residential Soils (Shallow)			**6.3**	**0.39**	**4**	**1.7**	**50**	**230**	**200**	**1.3**	**150**	**NA**	**10**	**20**	**1.3**	**600**
ESLs for Residential Soil (Deep)			**310**	**15**	**98**	**39**	**2,500**	**2,500**	**750**	**58**	**260**	**NA**	**2,500**	**2,500**	**62**	**2,500**
Background Concentration			**1**	**19**	**1**	**0.2**	**101**	**64**	**44**	**0.16**	**90**	**NA**	**1.1**	**0.5**	**1**	**163**

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Table 3A. Soil Analytical Results for Metals, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Organic Lead	Selenium	Silver	Thallium	Zinc
SB-33	10/19/09	1	<0.750	**1.44**	**0.286**	<0.500	**13.5**	**7.89**	**4.23**	<0.0835	**15.9**	---	<0.750	<0.250	<0.750	**24.9**
SB-34	10/19/09	1	<0.750	**2.94**	<0.250	<0.500	**14.3**	**8.61**	**6**	<0.0835	**24.4**	<1.00	<0.750	<0.250	<0.750	**28.8**
SB-35	10/19/09	1	<0.750	**2.49**	<0.250	<0.500	**11.5**	**7.36**	**6.18**	<0.0835	**17.7**	---	<0.750	<0.250	<0.750	**28.4**
		5	<0.750	**4.04**	**0.271**	<0.500	**17.9**	**9.88**	**3.85**	<0.0835	**21.4**	<1.00	<0.750	<0.250	<0.750	**27.9**
SB-36	10/20/09	1	<0.750	**2.86**	<0.250	<0.500	**13.8**	**8.57**	**7.09**	<0.0835	**21.6**	---	<0.750	<0.250	<0.750	**31.5**
SB-37	10/20/09	1	<0.750	**1.4**	<0.250	<0.500	**9.75**	**4.25**	**1.75**	<0.0835	**13**	<1.00	<0.750	<0.250	<0.750	**12.6**
SB-38	10/20/09	1	<0.750	**1.47**	<0.250	<0.500	**10.2**	**4.91**	**3.87**	<0.0835	**13.2**	<1.00	<0.750	<0.250	<0.750	**15**
		5	<0.750	**3.13**	<0.250	<0.500	**18.1**	**8.98**	**3.42**	<0.0835	**18.6**	---	<0.750	<0.250	<0.750	**26.3**
SB-39	10/20/09	1	<0.750	**2.6**	<0.250	<0.500	**23.5**	**8.01**	**5.64**	<0.0835	**16.8**	<1.00	<0.750	<0.250	<0.750	**27.1**
SB-40	10/20/09	8 inches	**0.819**	**3.2**	<0.250	<0.500	**70.5**	**7.42**	**9.19**	<0.0835	**20.2**	<1.00	<0.750	**0.653**	<0.750	**25.5**
SB-41	10/20/09	5 inches	<0.750	**1.44**	<0.250	<0.500	**11.9**	**4.52**	**2.21**	<0.0835	**12.7**	---	<0.750	<0.250	<0.750	**13.5**
		5	<0.750	**7.51**	**0.489**	<0.500	**29.3**	**10.1**	**6.62**	<0.0835	**27**	<1.00	<0.750	<0.250	<0.750	**43.6**
SB-42	10/20/09	1	<0.750	**3.22**	**0.264**	<0.500	**18.2**	**10.4**	**4.18**	<0.0835	**24.1**	<1.00	<0.750	<0.250	<0.750	**30.8**
SB-43	10/20/09	1	<0.750	**1.74**	<0.250	<0.500	**9.09**	**4.12**	**3.3**	<0.0835	**11.5**	<1.00	<0.750	<0.250	<0.750	**16.7**
SB-44	10/23/09	1	<0.750	**1.55**	<0.250	<0.500	**9.54**	**4.46**	**6.11**	<0.0835	**12.4**	<1.00	<0.750	<0.250	<0.750	**17.9**
SB-45	10/23/09	1	<0.750	**1.66**	<0.250	<0.500	**11.6**	**5.96**	**3.67**	<0.0835	**13.9**	<1.00	<0.750	<0.250	<0.750	**19.5**
SB-46	10/22/09	1	<0.750	**1.53**	<0.250	<0.500	**9.27**	**4.72**	**3.01**	<0.0835	**12.3**	<1.00	<0.750	<0.250	<0.750	**15.8**
SB-47	10/20/09	1	<0.750	**2.09**	<0.250	<0.500	**13**	**7.58**	**3.99**	<0.0835	**16.2**	<1.00	<0.750	<0.250	<0.750	**22.5**
SB-48	10/20/09	1	<0.750	**2.41**	<0.250	<0.500	**15.9**	**8.36**	**2.75**	<0.0835	**18.9**	<1.00	<0.750	<0.250	<0.750	**24.7**
		5	<0.750	**2.77**	<0.250	<0.500	**15.7**	**7.78**	**2.74**	<0.0835	**17.3**	---	<0.750	<0.250	<0.750	**20.9**
SB-49	10/20/09	1	<0.750	**1.55**	<0.250	<0.500	**8.98**	**5.41**	**4.8**	<0.0835	**11.8**	---	<0.750	<0.250	<0.750	**31.6**
SB-50	10/20/09	1	<0.750	**2.03**	<0.250	<0.500	**11.7**	**6.79**	**3.89**	<0.0835	**14.4**	---	<0.750	<0.250	<0.750	**20.7**
SB-51	10/21/09	1	<0.750	**2.73**	<0.250	<0.500	**17.9**	**10**	**3.73**	<0.0835	**21.7**	---	<0.750	<0.250	<0.750	**29.7**
		5	<0.750	**4.35**	**0.305**	<0.500	**20.3**	**10.7**	**3.96**	<0.0835	**23.8**	---	<0.750	<0.250	<0.750	**30.6**
SB-52	10/21/09	1	<0.750	**2.34**	<0.250	<0.500	**13.7**	**7.69**	**4.48**	<0.0835	**17.3**	---	<0.750	<0.250	<0.750	**23.9**
SB-53	10/21/09	1	<0.750	**2.83**	<0.250	<0.500	**13.9**	**8.16**	**4.43**	<0.0835	**20.2**	---	<0.750	<0.250	<0.750	**26.1**
SB-54	10/21/09	1	<0.750	**2.38**	<0.250	<0.500	**11.6**	**16.7**	**4.83**	<0.0835	**12.9**	---	<0.750	<0.250	<0.750	**25.7**
SB-55	10/21/09	1	<0.750	**2.4**	<0.250	<0.500	**11.8**	**7.38**	**7.92**	<0.0835	**15.1**	**1.28**	<0.750	<0.250	<0.750	**25.2**
		5	<0.750	**4.32**	**0.309**	<0.500	**20.8**	**10.4**	**4.23**	<0.0835	**22.7**	---	<0.750	<0.250	<0.750	**30.9**
SB-56	10/21/09	1	<0.750	**2.43**	<0.250	<0.500	**13.8**	**8.21**	**5.97**	<0.0835	**20.3**	---	<0.750	<0.250	<0.750	**29.8**
SB-57	10/21/09	1	<0.750	**3.06**	<0.250	<0.500	**17.1**	**9.05**	**4.71**	<0.0835	**22.3**	<1.00	<0.750	<0.250	<0.750	**30.1**
SB-58	10/21/09	1	<0.750	**1.92**	<0.250	<0.500	**12**	**20.5**	**14**	<0.0835	**13.6**	---	<0.750	<0.250	<0.750	**34.7**
SB-59	10/21/09	1	<0.750	**2.75**	**0.26**	<0.500	**18.7**	**11.2**	**4.8**	<0.0835	**27.4**	---	<0.750	<0.250	<0.750	**34.7**
		5	<0.750	**2.97**	<0.250	<0.500	**17.1**	**6.73**	**2.69**	<0.0835	**21.7**	---	<0.750	<0.250	<0.750	**20.1**
SB-60	10/22/09	1	<0.750	**2.36**	<0.250	<0.500	**15.5**	**10.3**	**3.48**	<0.0835	**18.4**	---	<0.750	<0.250	<0.750	**23.7**
ESLs for Residential Soils (Shallow)			**6.3**	**0.39**	**4**	**1.7**	**50**	**230**	**200**	**1.3**	**150**	**NA**	**10**	**20**	**1.3**	**600**
ESLs for Residential Soil (Deep)			**310**	**15**	**98**	**39**	**2,500**	**2,500**	**750**	**58**	**260**	**NA**	**2,500**	**2,500**	**62**	**2,500**
Background Concentration			**1**	**19**	**1**	**0.2**	**101**	**64**	**44**	**0.16**	**90**	**NA**	**1.1**	**0.5**	**1**	**163**

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Table 3A. Soil Analytical Results for Metals, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Organic Lead	Selenium	Silver	Thallium	Zinc
SB-61	10/21/09	1	<0.750	**2.2**	<0.250	<0.500	**11.6**	**4.69**	**1.76**	<0.0835	**16.6**	---	<0.750	<0.250	<0.750	**15.4**
		5	<0.750	**4.24**	<0.250	<0.500	**19.1**	**8.69**	**3.24**	<0.0835	**22.8**	---	<0.750	<0.250	<0.750	**24.6**
SB-62	10/22/09	1	<0.750	**2.18**	<0.250	<0.500	**10.1**	**14.2**	**10.2**	<0.0835	**12.2**	---	<0.750	<0.250	<0.750	**22.9**
		15	<0.750	**2.26**	<0.250	<0.500	**14.8**	**6.46**	**2.2**	<0.0835	**20.2**	<1.00	<0.750	<0.250	<0.750	**21.2**
SB-63	10/22/09	1	<0.750	**1.98**	<0.250	<0.500	**9.72**	**6.25**	**4.52**	<0.0835	**10.9**	---	<0.750	<0.250	<0.750	**20.8**
		15	**1.1**	**3.28**	**0.265**	<0.500	**16.5**	**10.5**	**3.9**	<0.0835	**18.4**	<1.00	<0.750	<0.250	<0.750	**29.5**
SB-64	10/22/09	15	<0.750	**2.13**	<0.250	<0.500	**14.3**	**6.18**	**2.08**	<0.0835	**20**	<1.00	<0.750	<0.250	<0.750	**20.1**
SB-65	10/22/09	15	**0.856**	**6.23**	**0.514**	<0.500	**19.8**	**21.5**	**8**	<0.0835	**24.8**	<1.00	<0.750	<0.250	<0.750	**58.7**
SB-66	10/22/09	15	<0.750	**2.39**	<0.250	<0.500	**17.1**	**6.23**	**1.96**	<0.0835	**21.4**	<1.00	<0.750	<0.250	<0.750	**20.8**
SB-67	10/21/09	1	<0.750	**2.11**	<0.250	<0.500	**12.7**	**5.27**	**1.86**	<0.0835	**16.9**	---	<0.750	<0.250	<0.750	**16**
SB-68	10/30/09	1	<0.750	**2.74**	<0.250	<0.500	**19.2**	**14.8**	**6.64**	**0.096**	**27.4**	<1.00	<0.750	<0.250	<0.750	**50.2**
		5	**1.21**	**2.27**	<0.250	<0.500	**15.5**	**12.1**	**15**	<0.0835	**20.2**	**1.24**	<0.750	<0.250	<0.750	**68.2**
SB-69	11/05/09	1	<0.750	**2.6**	<0.250	<0.500	**14.8**	**6.58**	**4.76**	<0.0835	**19**	---	<0.750	<0.250	<0.750	**20**
		5	<0.750	**2.45**	<0.250	<0.500	**15.6**	**7.86**	**5.96**	<0.0835	**20.1**	---	<0.750	<0.250	<0.750	**19.1**
ESLs for Residential Soils (Shallow)			**6.3**	**0.39**	**4**	**1.7**	**50**	**230**	**200**	**1.3**	**150**	**NA**	**10**	**20**	**1.3**	**600**
ESLs for Residential Soil (Deep)			**310**	**15**	**98**	**39**	**2,500**	**2,500**	**750**	**58**	**260**	**NA**	**2,500**	**2,500**	**62**	**2,500**
Background Concentration			**1**	**19**	**1**	**0.2**	**101**	**64**	**44**	**0.16**	**90**	**NA**	**1.1**	**0.5**	**1**	**163**

Notes:
All results are reported in milligrams per kilogram (mg/kg).
BOLD values indicate the analyte is detected at or above the method detection limit (MDL).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.
NA = Not Available.
--- = Not Analyzed.
ESLs (Shallow) = Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table A, Nov-07.
ESLs (Deep) = Table C. Environmental Screening Levels (ESLs), Deep Soils (>3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table C, Nov-07.

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Table 3B. Soil Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	DRO (mg/kg)	1,1,1,2-Tetra chloro ethane	1,1,1-Trichloro ethane	1,1,2,2-Tetra chloro ethane	1,1,2-Trichloro ethane	1,1-DCA	1,1-DCE	1,1-Dichloro propene	1,2,3-Trichloro benzene	1,2,3-Trichloro propane	1,2,4-Trichloro benzene	1,2,4-Trimethyl benzene	1,2-Dibromo-3-Chloro propane	1,2-Dichloro benzene	1,2-DCA	1,2-Dichloro propane	1,3,5-Trimethyl benzene	1,3-Dichloro benzene	1,3-Dichloro propane	1,4-Dichloro benzene	2,2-Dichloro propane	2-Butanone	2-Chloro toluene	4-Chloro toluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo benzene	Bromo chloro methane	Bromo dichloro methane	Bromoform	Bromo methane
CPT-03	10/21/09	1.5	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	**74**	<1.0	<1.0	<2.1	<1.0	<5.2	<21
		4.5	<5.0	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<4.8	<19	<0.96	<0.96	<19	**55**	<0.96	<0.96	<1.9	<0.96	<4.8	<19
CPT-04	10/21/09	1.5	<5.0	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.8	<19	<0.97	<0.97	<19	<48	<0.97	<0.97	<1.9	<0.97	<4.8	<19
		4.5	<5.0	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.3	<21	<1.1	<1.1	<21	<53	<1.1	<1.1	<2.1	<1.1	<5.3	<21
CPT-05	10/21/09	1.5	<5.0	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99	<5.0	<20	<0.99	<0.99	<20	**69**	<0.99	<0.99	<2.0	<0.99	<5.0	<20
		4.5	<5.0	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<4.6	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92	<4.6	<18	<0.92	<0.92	<18	**84**	<0.92	<0.92	<1.8	<0.92	<4.6	<18
CPT-06	10/21/09	1.5	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	<52	<1.0	<1.0	<2.1	<1.0	<5.2	<21
		4.5	<5.0	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<5.8	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2	<5.8	<23	<1.2	<1.2	<23	<58	<1.2	<1.2	<2.3	<1.2	<5.8	<23
RAD MW-1	10/26/09	5	<5.0	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90	<4.5	<18	<0.90	<0.90	<18	**63**	<0.90	<0.90	<1.8	<0.90	<4.5	<18
SB-01	10/21/09	1	---	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<4.6	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91	<4.6	<18	<0.91	<0.91	<18	**64**	<0.91	<0.91	<1.8	<0.91	<4.6	<18
SB-02	10/21/09	1	---	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.9	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.9	<19	<0.97	<0.97	<19	**88**	<0.97	<0.97	<1.9	<0.97	<4.9	<19
SB-03	10/21/09	1	---	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	**92**	<1.0	<1.0	<2.0	<1.0	<5.0	<20
SB-04	10/19/09	8 inches	<5.0	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.4	<21	<1.1	<1.1	<21	**200**	<1.1	<1.1	<2.1	<1.1	<5.4	<21
SB-CPT-4A	12/03/09	1	---	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.4	<21	<1.1	<1.1	<21	<54	<1.1	<1.1	<2.1	<1.1	<5.4	<21
		5	---	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.4	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.4	<22	<1.1	<1.1	<22	<54	<1.1	<1.1	<2.2	<1.1	<5.4	<22
		10	---	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.6	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.6	<19	<0.93	<0.93	<19	<46	<0.93	<0.93	<1.9	<0.93	<4.6	<19
SB-CPT-4A**	12/03/09	1	---	<5.0	<5.0	<5.0*	<5.0*	<5.0	<5.0	<5.0	<5.0*	<5.0*	<5.0	<5.0	<5.0*	<5.0	<5.0*	<5.0	<5.0	<5.0	<5.0*	<5.0	<5.0	<50*	<5.0	<5.0	<50*	<50	<5.0	<5.0	<20	<5.0	<5.0*	<10
		5	---	<5.3	<5.3	<5.3*	<5.3*	<5.3	<5.3	<5.3	<5.3*	<5.3*	<5.3	<5.3	<5.3*	<5.3	<5.3*	<5.3	<5.3	<5.3	<5.3*	<5.3	<5.3	<53*	<5.3	<5.3	<53*	<53	<5.3	<5.3	<21	<5.3	<5.3*	<11
		10	---	<5.6	<5.6	<5.6*	<5.6*	<5.6	<5.6	<5.6	<5.6	<5.6*	<5.6	<5.6	<5.6*	<5.6	<5.6*	<5.6	<5.6	<5.6	<5.6*	<5.6	<5.6	<56*	<5.6	<5.6	<56*	<56	<5.6	<5.6	<23	<5.6	<5.6*	<11
SB-CPT-4WI	12/03/09	1	---	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.3	<21	<1.1	<1.1	<21	<53	<1.1	<1.1	<2.1	<1.1	<5.3	<21
		5	---	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	<50	<1.0	<1.0	<2.0	<1.0	<5.0	<20
		10	---	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<4.2	<17	<0.85	<0.85	<17	<42	<0.85	<0.85	<1.7	<0.85	<4.2	<17
SB-CPT-4WI**	12/03/09	1	---	<5.1	<5.1	<5.1*	<5.1*	<5.1	<5.1	<5.1	<5.1*	<5.1*	<5.1	<5.1	<5.1*	<5.1	<5.1*	<5.1	<5.1	<5.1	<5.1*	<5.1	<5.1	<51*	<5.1	<5.1	<51*	<51	<5.1	<5.1	<20	<5.1	<5.1*	<10
		5	---	<4.8	<4.8	<4.8*	<4.8*	<4.8	<4.8	<4.8	<4.8*	<4.8*	<4.8	<4.8	<4.8*	<4.8	<4.8*	<4.8	<4.8	<4.8	<4.8*	<4.8	<4.8	<48*	<4.8	<4.8	<48*	<48	<4.8	<4.8	<19	<4.8	<4.8*	<9.7
		10	---	<4.0	<4.0	<4.0*	<4.0*	<4.0	<4.0	<4.0	<4.0*	<4.0*	<4.0	<4.0	<4.0*	<4.0	<4.0*	<4.0	<4.0	<4.0	<4.0*	<4.0	<4.0	<40*	<4.0	<4.0	<40*	<40	<4.0	<4.0	<16	<4.0	<4.0*	<8.1
SB-CPT-4SI	12/03/09	1	---	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<4.9	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<4.9	<20	<0.98	<0.98	<20	<49	<0.98	<0.98	<2.0	<0.98	<4.9	<20
		5	---	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	<52	<1.0	<1.0	<2.1	<1.0	<5.2	<21
		10	---	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<4.1	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82	<4.1	<16	<0.82	<0.82	<16	<41	<0.82	<0.82	<1.6	<0.82	<4.1	<16
SB-CPT-4SI**	12/03/09	1	---	<4.5	<4.5	<4.5*	<4.5*	<4.5	<4.5	<4.5	<4.5*	<4.5*	<4.5	<4.5	<4.5*	<4.5	<4.5*	<4.5	<4.5	<4.5	<4.5*	<4.5	<4.5	<45*	<4.5	<4.5	<45*	<45	<4.5	<4.5	<18	<4.5	<4.5*	<9.1
		5	---	<5.0	<5.0	<5.0*	<5.0*	<5.0	<5.0	<5.0	<5.0*	<5.0*	<5.0	<5.0	<5.0*	<5.0	<5.0*	<5.0	<5.0	<5.0	<5.0*	<5.0	<5.0	<50*	<5.0	<5.0	<50*	<50	<5.0	<5.0	<20	<5.0	<5.0*	<10
		10	---	<4.2	<4.2	<4.2*	<4.2*	<4.2	<4.2	<4.2	<4.2*	<4.2*	<4.2	<4.2	<4.2*	<4.2	<4.2*	<4.2	<4.2	<4.2	<4.2*	<4.2	<4.2	<42*	<4.2	<4.2	<42*	<42	<4.2	<4.2	<17	<4.2	<4.2*	<8.4
SB-CPT-4NI	12/03/09	1	---	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<6.0	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2	<6.0	<24	<1.2	<1.2	<24	<60	<1.2	<1.2	<2.4	<1.2	<6.0	<24
		5	---	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.3	<21	<1.1	<1.1	<21	<53	<1.1	<1.1	<2.1	<1.1	<5.3	<21
		10	---	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<4.8	<19	<0.96	<0.96	<19	<48	<0.96	<0.96	<1.9	<0.96	<4.8	<19
SB-CPT-4NI**	12/03/09	1	---	<5.5	<5.5	<5.5*	<5.5*	<5.5	<5.5	<5.5	<5.5*	<5.5*	<5.5	<5.5	<5.5*	<5.5	<5.5*	<5.5	<5.5	<5.5	<5.5*	<5.5	<5.5	<55*	<5.5	<5.5	<55*	<55	<5.5	<5.5	<22	<5.5	<5.5*	<11
		5	---	<5.1	<5.1	<5.1*	<5.1*	<5.1	<5.1	<5.1	<5.1*	<5.1*	<5.1	<5.1	<5.1*	<5.1	<5.1*	<5.1	<5.1	<5.1	<5.1*	<5.1	<5.1	<51*	<5.1	<5.1	<51*	<51	<5.1	<5.1	<21	<5.1	<5.1*	<10
		10	---	<5.6	<5.6	<5.6*	<5.6*	<5.6	<5.6	<5.6	<5.6*	<5.6*	<5.6	<5.6	<5.6*	<5.6	<5.6*	<5.6	<5.6	<5.6	<5.6*	<5.6	<5.6	<56*	<5.6	<5.6	<56	<56	<5.6	<5.6	<11	<5.6	<5.6*	<11
SB-4A	12/03/09	1	---	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<4.0	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80	<4.0	<16	<0.80	<0.80	<16	**53**	<0.80	<0.80	<1.6	<0.80	<4.0	<16
		5	---	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<4.8	<19	<0.96	<0.96	<19	**63**	<0.96	<0.96	<1.9	<0.96	<4.8	<19
SB-4A**	12/03/09	1	---	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<44	<4.4	<4.4	<44*	<44	<4.4	<4.4	<18	<4.4	<4.4	<8.8
		5	---	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<45	<4.5	<4.5	<45*	<45	<4.5	<4.5	<18	<4.5	<4.5	<8.9
SB-05	10/22/09	1	<5.0	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.4	<21	<1.1	<1.1	<21	**66**	<1.1	<1.1	<2.1	<1.1	<5.4	<21
SB-06	10/22/09	1	<5.0	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.9	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.9	<19	<0.97	<0.97	<19	**57**	<0.97	<0.97	<1.9	<0.97	<4.9	<19
SB-07	10/21/09	1	<5.0	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90	<4.5	<18	<0.90	<0.90	<18	**97**	<0.90	<0.90	<1.8	<0.90	<4.5	<18
SB-08	10/21/09	1	<5.0	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<4.1	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83	<4.1	<17	<0.83	<0.83	<17	**99**	<0.83	<0.83	<1.7	<0.83	<4.1	<17
SB-09	10/21/09	1	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	**59**	<1.0	<1.0	<2.1	<1.0	<5.2	<21
SB-10	10/20/09	5	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	**74**	<1.0	<1.0	<2.1	<1.0	<5.2	<21
SB-11	10/21/09	1	---	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82	<1.6	<1.6	<1.6	<1.6	<1.6	<4.1	<0.82	<0.82	<0.82	<1.6	<0.82	<0.82	<0.82	<4.1	<16	<0.82	<0.82	<16	**71**	<0.82	<0.82	<1.6	<0.82	<4.1	<16
SB-12	10/20/09	1	**6.2**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	**72**	<1.0	<1.0	<2.0	<1.0	<5.0	<20
SB-13	10/20/09	1	<5.0	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<4.4	<18	<0.88	<0.88	<18	**92**	<0.88	<0.88	<1.8	<0.88	<4.4	<18
SB-14	10/23/09	1	<5.0	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<5.8	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2	<5.8	<23	<1.2	<1.2	<23	**120**	<1.2	<1.2	<2.3	<1.2	<5.8	<23
SB-15	10/21/09	1	<5.0	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<4.5	<18	<0.89	<0.89	<18	**110**	<0.89	<0.89	<1.8	<0.89	<4.5	<18
		5	<5.0	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.6	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.6	<22	<1.1	<1.1	<22	**75**	<1.1	<1.1	<2.2	<1.1	<5.6	<22
SB-16	10/19/09	8 inches	<5.0	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.90	<0.90	<0.90	<1.8	<0.90	<0.90	<0.90	<4.5	<18	<0.90	<0.90	<18	**56**	<0.90	<0.90	<1.8	<0.90	<4.5	<18
SB-17	10/21/09	1	<5.0	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<4.4	<18	<0.88	<0.88	<18	**110**	<0.88	<0.88	<1.8	<0.88	<4.4	<18
SB-18	10/20/09	1	<5.0	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<4.3	**18**	<0.86	<0.86	<17	<2,300	<0.86	<0.86	<1.7	<0.86	<4.3	<17
SB-18A	12/03/09	1	---	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<4.4	<18	<0.89	<0.89	<18	**78**	<0.89	<0.89	<1.8	<0.89	<4.4	<18
		5	---	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.7	<19	<0.93	<0.93	<19	<47	<0.93	<0.93	<1.9	<0.93	<4.7	<19
SB-18A**	12/03/09	1	---	<4.6	<4.6	<4.6*	<4.6*	<4.6	<4.6	<4.6	<4.6*	<4.6*	<4.6	<4.6	<4.6*	<4.6	<4.6*	<4.6	<4.6	<4.6	<4.6*	<4.6	<4.6	<46*	<4.6	<4.6	<46*	**75**	<4.6	<4.6	<18	<4.6	<4.6*	<9.2
		5	---	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<4.9	<49	<49	<4.9	<4.9	<20	<4.9	<4.9	<9.8
SB-19	10/22/09	1	**16**	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94	<4.7	<19	<0.94	<0.94	<19	**150**	<0.94	<0.94	<1.9	<0.94	<4.7	<19
SB-19A	12/03/09	1	**---**	<0.81	<0.81	<1.6	<0.81	<0.81	<0.81	<1.6	<1.6	<1.6	<1.6	<1.6	<4.1	<0.81	<0.81	<0.81	<1.6	<0.81	<0.81	<0.84	<4.1	<16	<0.81	<0.81	<16	**87**	<0.81	<0.81	<1.6	<0.81	<4.1	<16
		5	**---**	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.3	<21	<1.1	<1.1	<21	<53	<1.1	<1.1	<2.1	<1.1	<5.3	<21
SB-19A**	12/03/09	1	**---**	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<39	<3.9	<3.9	<3.9	**45**	<3.9	<3.9	<16	<3.9	<3.9	<7.8
		5	**---**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<54	<5.4	<5.4	<5.4	<54	<5.4	<5.4	<22	<5.4	<5.4	<11
SB-20	10/21/09	1	---	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.8	<19	<0.97	<0.97	<19	**120**	<0.97	<0.97	<1.9	<0.97	<4.8	<19
SB-21	10/23/09	1	<5.0	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.5	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.5	<22	<1.1	<1.1	<22	**150**	<1.1	<1.1	<2.2	<1.1	<5.5	<22
SB-21A	12/03/09	1	---	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.3	<21	<1.1	<1.1	<21	**91**	<1.1	<1.1	<2.1	<1.1	<5.3	<21
SB-21A**	12/03/09	1	---	<4.8	<4.8	<4.8*	<4.8*	<4.8	<4.8	<4.8	<4.8*	<4.8*	<4.8	<4.8	<4.8*	<4.8	<4.8*	<4.8	<4.8	<4.8	<4.8*	<4.8	<4.8	<48*	<4.8	<4.8	<48*	<48	<4.8	<4.8	<19	<4.8	<4.8	<9.5
		5	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<20	<5.0	<5.0	<10
SB-22	10/22/09	1	<5.0	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<4.8	<19	<0.96	<0.96	<19	**110**	<0.96	<0.96	<1.9	<0.96	<4.8	<19
SB-23	10/20/09	1	<5.0	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<4.3	<17	<0.86	<0.86	<17	**73**	<0.86	<0.86	<1.7	<0.86	<4.3	<17
SB-24	10/20/09	1	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	**91**	<1.0	<1.0	<2.1	<1.0	<5.2	<21
		5	<5.0	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.5	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.5	<22	<1.1	<1.1	<22	**74**	<1.1	<1.1	<2.2	<1.1	<5.5	<22
SB-25	10/20/09	1	**5.5**	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<4.9	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<4.9	<20	<0.98	<0.98	<20	**74**	<0.98	<0.98	<2.0	<0.98	<4.9	<20
SB-26	10/19/09	8 inches	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	<50	<1.0	<1.0	<2.0	<1.0	<5.0	<20
		5	<5.0	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.4	<21	<1.1	<1.1	<21	<54	<1.1	<1.1	<2.1	<1.1	<5.4	<21
SB-27	10/19/09	8 inches	<5.0	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.6	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.6	<19	<0.93	<0.93	<19	**96**	<0.93	<0.93	<1.9	<0.93	<4.6	<19
SB-28	10/19/09	1	<5.0	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<4.4	<18	<0.88	<0.88	<18	**50**	<0.88	<0.88	<1.8	<0.88	<4.4	<18
		5	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	**100**	<1.0	<1.0	<2.0	<1.0	<5.0	<20
ESLs for Residential Soils (Shallow)			**83***(mg/kg)**	**24**	**7,800**	**18**	**70**	**200**	**1,000**	**NA**	**NA**	**NA**	**1,500**	**NA**	**4.5**	**1,100**	**4.5**	**120**	**NA**	**7,400**	**NA**	**590**	**NA**	**NA**	**NA**	**NA**	**NA**	**500**	**44**	**NA**	**NA**	**570**	**2,200**	**390**
ESLs for Residential Soil (Deep)			**NA**	**24**	**7,800**	**18**	**70**	**200**	**1,000**	**NA**	**NA**	**NA**	**1,500**	**NA**	**4.5**	**1,100**	**4.5**	**120**	**NA**	**7,400**	**NA**	**590**	**NA**	**NA**	**NA**	**NA**	**NA**	**500**	**44**	**NA**	**NA**	**1,900**	**2,200**	**390**

ARCADIS

Table 3B. Soil Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Carbon Disulfide	Carbon Tetra chloride	Chloro benzene	Chloro ethane	Chloroform	Chloro methane	cis-1,2-DCE	cis-1,3-Dichloro propene	Dibromo chloro methane
CPT-03	10/21/09	1.5	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1
		4.5	<9.6	<0.96	<0.96	<1.9	<0.96	<19	<0.96	<0.96	<1.9
CPT-04	10/21/09	1.5	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9
		4.5	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
CPT-05	10/21/09	1.5	<9.9	<0.99	<0.99	<2.0	<0.99	<20	<0.99	<0.99	<2.0
		4.5	<9.2	<0.92	<0.92	<1.8	<0.92	<18	<0.92	<0.92	<1.8
CPT-06	10/21/09	1.5	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1
		4.5	<12	<1.2	<1.2	<2.3	<1.2	<23	<1.2	<1.2	<2.3
RAD MW-1	10/26/09	5	<9.0	<0.90	<0.90	<1.8	<0.90	<18	<0.90	<0.90	<1.8
SB-01	10/21/09	1	<9.1	<0.91	<0.91	<1.8	<0.91	<18	<0.91	<0.91	<1.8
SB-02	10/21/09	1	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9
SB-03	10/21/09	1	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0
SB-04	10/19/09	8 inches	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
SB-CPT-4A	12/03/09	1	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
		5	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2
		10	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<1.9
SB-CPT-4A**	12/03/09	1	<5.0*	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0
		5	<5.3*	<5.3	<5.3	<11	<5.3	<11	<5.3	<5.3	<5.3
		10	<5.6*	<5.6	<5.6	<11	<5.6	<11	<5.6	<5.6	<5.6
SB-CPT-4WI	12/03/09	1	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
		5	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0
		10	<8.5	<0.85	<0.85	<1.7	<0.85	<17	<0.85	<0.85	<1.7
SB-CPT-4WI**	12/03/09	1	<5.1*	<5.1	<5.1	<10	<5.1	<10	<5.1	<5.1	<5.1
		5	<4.8*	<4.8	<4.8	<9.7	<4.8	<9.7	<4.8	<4.8	<4.8
		10	<4.0*	<4.0	<4.0	<8.1	<4.0	<8.1	<4.0	<4.0	<4.0
SB-CPT-4SI	12/03/09	1	<9.8	<0.98	<0.98	<2.0	<0.98	<20	<0.98	<0.98	<2.0
		5	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1
		10	<8.2	<0.82	<0.82	<1.6	<0.82	<16	<0.82	<0.82	<1.6
SB-CPT-4SI**	12/03/09	1	<4.5*	<4.5	<4.5	<9.1	<4.5	<9.1	<4.5	<4.5	<4.5
		5	<5.0*	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0
		10	<4.2	<4.2	<4.2	<8.4	<4.2	<8.4	<4.2	<4.2	<4.2
SB-CPT-4NI	12/03/09	1	<12	<1.2	<1.2	<2.4	<1.2	<24	<1.2	<1.2	<2.4
		5	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
		10	<9.6	<0.96	<0.96	<1.9	<0.96	<19	<0.96	<0.96	<1.9
SB-CPT-4NI**	12/03/09	1	<5.5*	<5.5	<5.5	<11	<5.5	<11	<5.5	<5.5	<5.5
		5	<5.1*	<5.1	<5.1	<10	<5.1	<10	<5.1	<5.1	<5.1
		10	<5.6*	<5.6	<5.6	<11	<5.6	<11	<5.6	<5.6	<5.6
SB-4A	12/03/09	1	<8.0	<0.80	<0.80	<1.6	<0.80	<16	<0.80	<0.80	<1.6
		5	<9.6	<0.96	<0.96	<1.9	<0.96	<19	<0.96	<0.96	<1.9
SB-4A**	12/03/09	1	<4.4	<4.4	<4.4	<8.8	<4.4	<8.8	<4.4	<4.4	<4.4
		5	<4.5	<4.5	<4.5	<8.9	<4.5	<8.9	<4.5	<4.5	<4.5
SB-05	10/22/09	1	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
SB-06	10/22/09	1	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9
SB-07	10/21/09	1	<9.0	<0.90	<0.90	<1.8	<0.90	<18	<0.90	<0.90	<1.8
SB-08	10/21/09	1	<8.3	<0.83	<0.83	<1.7	<0.83	<17	<0.83	<0.83	<1.7
SB-09	10/21/09	1	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1
SB-10	10/20/09	5	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1
SB-11	10/21/09	1	<8.2	<0.82	<0.82	<1.6	<0.82	<16	<0.82	<0.82	<1.6
SB-12	10/20/09	1	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0
SB-13	10/20/09	1	<8.8	<0.88	<0.88	<1.8	<0.88	<18	<0.88	<0.88	<1.8
SB-14	10/23/09	1	<12	<1.2	<1.2	<2.3	<1.2	<23	<1.2	<1.2	<2.3
SB-15	10/21/09	1	<8.9	<0.89	<0.89	<1.8	<0.89	<18	<0.89	<0.89	<1.8
		5	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2
SB-16	10/19/09	8 inches	<9.0	<0.90	<0.90	<1.8	<0.90	<18	<0.90	<0.90	<1.8
SB-17	10/21/09	1	<8.8	<0.88	<0.88	<1.8	<0.88	<18	<0.88	<0.88	<1.8
SB-18	10/20/09	1	<8.6	<0.86	<0.86	<1.7	<0.86	<17	<0.86	<0.86	<1.7
SB-18A	12/03/09	1	<8.9	<0.89	<0.89	<1.8	<0.89	<18	<0.89	<0.89	<1.8
		5	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<1.9
SB-18A**	12/03/09	1	<4.6	<4.6	<4.6	<9.2	<4.6	<9.2	<4.6	<4.6	<4.6
		5	<4.9	<4.9	<4.9	<9.8	<4.9	<9.8	<4.9	<4.9	<4.9
SB-19	10/22/09	1	<9.4	<0.94	<0.94	<1.9	<0.94	<19	<0.94	<0.94	<1.9
SB-19A	12/03/09	1	<8.1	<0.81	<0.81	<1.6	<0.81	<16	<0.81	<0.81	<1.6
		5	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
SB-19A**	12/03/09	1	<3.9	<3.9	<3.9	<7.8	<3.9	<7.8	<3.9	<3.9	<3.9
		5	<5.4	<5.4	<5.4	<11	<5.4	<11	<5.4	<5.4	<5.4
SB-20	10/21/09	1	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9
SB-21	10/23/09	1	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2
SB-21A	12/03/09	1	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
SB-21A**	12/03/09	1	<4.8	<4.8	<4.8	<9.5	<4.8	<9.5	<4.8	<4.8	<4.8
		5	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0
SB-22	10/22/09	1	<9.6	<0.96	<0.96	<1.9	<0.96	<19	<0.96	<0.96	<1.9
SB-23	10/20/09	1	<8.6	<0.86	<0.86	<1.7	<0.86	<17	<0.86	<0.86	<1.7
SB-24	10/20/09	1	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1
		5	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2
SB-25	10/20/09	1	<9.8	<0.98	<0.98	<2.0	<0.98	<20	<0.98	<0.98	<2.0
SB-26	10/19/09	8 inches	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0
		5	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1
SB-27	10/19/09	8 inches	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<1.9
SB-28	10/19/09	1	<8.8	<0.88	<0.88	<1.8	<0.88	<18	<0.88	<0.88	<1.8
		5	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0
ESLs for Residential Soils (Shallow)			**NA**	**20**	**1,500**	**850**	**680**	**6,400**	**190**	**NA**	**7600**
ESLs for Residential Soil (Deep)			**NA**	**110**	**1,500**	**850**	**2,100**	**6,400**	**190**	**NA**	**8300**

Sample ID	Date	Depth (ft bgs)	Dibromo methane	Dichloro difluoro methane	Diiso propyl Ether	Ethanol	ETBE	Ethyl benzene	Ethylene Dibromide	Freon 113	Isopropyl benzene	MEK	MTBE	Methylene Chloride	Naphthalene
CPT-03	10/21/09	1.5	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10
		4.5	<0.96	<1.9	<0.96	<480	<0.96	<0.96	<0.96	<9.6	<0.96	<19	<1.9	<9.6	<9.6
CPT-04	10/21/09	1.5	<0.97	<1.9	<0.97	<480	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7
		4.5	<1.1	<2.1	<1.1	<530	<1.1	<1.1	<1.1	<11	<1.1	<21	<2.1	<11	<11
CPT-05	10/21/09	1.5	<0.99	<2.0	<0.99	<500	<0.99	<0.99	<0.99	<9.9	<0.99	<20	<2.0	<9.9	<9.9
		4.5	<0.92	<1.8	<0.92	<460	<0.92	<0.92	<0.92	<9.2	<0.92	<18	<1.8	<9.2	<9.2
CPT-06	10/21/09	1.5	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10
		4.5	<1.2	<2.3	<1.2	<580	<1.2	<1.2	<1.2	<12	<1.2	<23	<2.3	<12	<12
RAD MW-1	10/26/09	5	<0.90	<1.8	<0.90	<450	<0.90	<0.90	<0.90	<9.0	<0.90	<18	<1.8	<9.0	<9.0
SB-01	10/21/09	1	<0.91	<1.8	<0.91	<460	<0.91	<0.91	<0.91	<9.1	<0.91	<18	<1.8	<9.1	<9.1
SB-02	10/21/09	1	<0.97	<1.9	<0.97	<490	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7
SB-03	10/21/09	1	<1.0	<2.0	<1.0	<500	<1.0	<1.0	<1.0	<10	<1.0	<20	<2.0	<10	<10
SB-04	10/19/09	8 inches	<1.1	<2.1	<1.1	<540	<1.1	<1.1	<1.1	<11	<1.1	<21	<2.1	<11	<11
SB-CPT-4A	12/03/09	1	<1.1	<2.1	<1.1	<540	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11
		5	<1.1	<2.1	<1.1	<540	<1.1	<1.1	---	---	<1.1	<22	<2.2	<1.1	<11
		10	<0.93	<1.9	<0.93	<460	<0.93	<0.93	---	---	<0.93	<19	<1.9	<0.93	<9.3
SB-CPT-4A**	12/03/09	1	<10	<10	---	---	---	<5.0	<5.0*	---	<5.0	<50*	<5.0*	<10	<10*
		5	<11	<11	---	---	---	<5.3	<5.3*	---	<5.3	<53*	<5.3*	<5.3	<11*
		10	<11	<11	---	---	---	<5.6	<5.6*	---	<5.6	<56*	<5.6*	<5.6	<11*
SB-CPT-4WI	12/03/09	1	<1.1	<2.1	<1.1	<530	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11
		5	<1.0	<2.0	<1.0	<500	<1.0	<1.0	---	---	<1.0	<20	<2.0	<10	<10
		10	<0.85	<1.7	<0.85	<420	<0.85	<0.85	---	---	<0.85	<17	<1.7	<8.5	<8.5
SB-CPT-4WI**	12/03/09	1	<10	<10	---	---	---	<5.1	<5.1*	---	<5.1	<51*	<5.1*	<10	<10*
		5	<9.7	<9.7	---	---	---	<4.8	<4.8*	---	<4.8	<48*	<4.8*	<9.7*	<9.7*
		10	<8.1	<8.1	---	---	---	<4.0	<4.0*	---	<4.0	<40*	<4.0*	<8.1*	<8.1*
SB-CPT-4SI	12/03/09	1	<0.98	<2.0	<0.98	<490	<0.98	<0.98	---	---	<0.98	<20	<2.0	<9.8	<9.8
		5	<1.0	<2.1	<1.0	<520	<1.0	<1.0	---	---	<1.0	<21	<2.1	<10	<10
		10	<0.82	<1.6	<0.82	<410	<0.82	<0.82	---	---	<0.82	<16	<1.6	<8.2	<8.2
SB-CPT-4SI**	12/03/09	1	<9.1	<9.1	---	---	---	<4.5	<4.5*	<4.5	<4.5	<45*	<4.5*	<9.1*	<9.1*
		5	<10	<10	---	---	---	<5.0	<5.0*	---	<5.0	<50*	<5.0*	<10	<10*
		10	<8.4*	<8.4	---	---	---	<4.2	<4.2*	---	<4.2	<42*	<4.2*	<8.4	<8.4*
SB-CPT-4NI	12/03/09	1	<1.2	<2.4	<1.2	<600	<1.2	<1.2	---	---	<1.2	<24	<2.4	<12	<12
		5	<1.1	<2.1	<1.1	<530	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11
		10	<0.96	<1.9	<0.96	<480	<0.96	<0.96	---	---	<0.96	<19	<1.9	<9.6	<9.6
SB-CPT-4NI**	12/03/09	1	<11	<11	---	---	---	<5.5	<5.5*	---	<5.5	<55*	<5.5*	<11	<11*
		5	<10	<10	---	---	---	<5.1	<5.1*	---	<5.1	<51*	<5.1*	<10	<10*
		10	<11	<11	---	---	---	<5.6	<5.6*	---	<5.6	<56*	<5.6*	<11	<11*
SB-4A	12/03/09	1	<0.80	<1.6	<0.80	<400	<0.80	<0.80	---	---	<0.80	<16	<1.6	<8.0	<8.0
		5	<0.96	<1.9	<0.96	<480	<0.96	<0.96	---	---	<0.96	<19	<1.9	<9.6	<9.6
SB-4A**	12/03/09	1	<8.8	<8.8	---	---	---	<4.4	<4.4	---	<4.4	<44	<4.4	<8.8	<8.8
		5	<8.9	<8.9	---	---	---	<4.5	<4.5	---	<4.5	<45	<4.5	<8.8	<8.8
SB-05	10/22/09	1	<1.1	<2.1	<1.1	<540	<1.1	<1.1	<1.1	<11	<1.1	<21	<2.1	<11	<11
SB-06	10/22/09	1	<0.97	<1.9	<0.97	<490	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7
SB-07	10/21/09	1	<0.90	<1.8	<0.90	<450	<0.90	<0.90	<0.90	<9.0	<0.90	<18	<1.8	<9.0	<9.0
SB-08	10/21/09	1	<0.83	<1.7	<0.83	<410	<0.83	<0.83	<0.83	<8.3	<0.83	<17	<1.7	<8.3	<8.3
SB-09	10/21/09	1	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10
SB-10	10/20/09	5	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10
SB-11	10/21/09	1	<0.82	<1.6	<0.82	<410	<0.82	<0.82	<0.82	<8.2	<0.82	<16	<1.6	<8.2	<8.2
SB-12	10/20/09	1	<1.0	<2.0	<1.0	<500	<1.0	<1.0	<1.0	<10	<1.0	<20	<2.0	<10	<10
SB-13	10/20/09	1	<0.88	<1.8	<0.88	<440	<0.88	<0.88	<0.88	<8.8	<0.88	<18	<1.8	<8.8	<8.8
SB-14	10/23/09	1	<1.2	<2.3	<1.2	<580	<1.2	<1.2	<1.2	<12	<1.2	<23	<2.3	<12	<12
SB-15	10/21/09	1	<0.89	<1.8	<0.89	<450	<0.89	<0.89	<0.89	<8.9	<0.89	<18	<1.8	<8.9	<8.9
		5	<1.1	<2.2	<1.1	<560	<1.1	<1.1	<1.1	<11	<1.1	<22	<2.2	<11	<11
SB-16	10/19/09	8 inches	<0.90	<1.8	<0.90	<450	<0.90	<0.90	<0.90	<9.0	<0.90	<18	<1.8	<9.0	<9.0
SB-17	10/21/09	1	<0.88	<1.8	<0.88	<440	<0.88	<0.88	<0.88	<8.8	<0.88	<18	<1.8	<8.8	<8.8
SB-18	10/20/09	1	<0.86	<1.7	<0.86	<430	<0.86	<0.86	<0.86	<8.6	<0.86	<17	<1.7	<8.6	<8.6
SB-18A	12/03/09	1	<0.89	<1.8	<0.89	<440	<0.89	<0.89	---	---	<0.89	<18	<1.8	<8.9	<8.9
		5	<0.93	<1.9	<0.93	<470	<0.93	<0.93	---	---	<0.93	<19	<1.9	<0.93	<9.3
SB-18A**	12/03/09	1	<9.2*	<9.2	---	---	---	<4.6	<4.6*	---	<4.6	<46*	<4.6*	<9.2	<9.2*
		5	<9.8	<9.8	---	---	---	<4.9	<4.9	---	<4.9	<49	<4.9	<9.8	<9.8
SB-19	10/22/09	1	<0.94	<1.9	<0.94	<470	<0.94	<0.94	<0.94	<9.4	<0.94	<19	<1.9	<9.4	<9.4
SB-19A	12/03/09	1	<0.81	<1.6	<0.81	<410	<0.81	<0.81	---	---	<0.81	<16	<1.6	<8.1	<8.1
		5	<1.1	<2.1	<1.1	<530	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11
SB-19A**	12/03/09	1	<7.8	<7.8	---	---	---	<3.9	<3.9	---	<3.9	<39	<3.9	<7.8	<7.8
		5	<11	<11	---	---	---	<5.4	<5.4	---	<5.4	<54	<5.4	<11	<11
SB-20	10/21/09	1	<0.97	<1.9	<0.97	<480	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7
SB-21	10/23/09	1	<1.1	<2.2	<1.1	<550	<1.1	<1.1	<1.1	<11	<1.1	<22	<2.2	<11	<11
SB-21A	12/03/09	1	<1.1	<2.1	<1.1	<530	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11
SB-21A**	12/03/09	1	<9.5*	<9.5	---	---	---	<4.8	<4.8*	---	<4.8	<48*	<4.8*	<9.5	<9.5*
		5	<10	<10	---	---	---	<5.0	<5.0	---	<5.0	<50	<5.0	<10	<10
SB-22	10/22/09	1	<0.96	<1.9	<0.96	<480	<0.96	<0.96	<0.96	<9.6	<0.96	<19	<1.9	<9.6	<9.6
SB-23	10/20/09	1	<0.86	<1.7	<0.86	<430	<0.86	<0.86	<0.86	<8.6	<0.86	<17	<1.7	<8.6	<8.6
SB-24	10/20/09	1	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10
		5	<1.1	<2.2	<1.1	<550	<1.1	<1.1	<1.1	<11	<1.1	<22	<2.2	<11	<11
SB-25	10/20/09	1	<0.98	<2.0	<0.98	<490	<0.98	<0.98	<0.98	<9.8	<0.98	<20	<2.0	<9.8	<9.8
SB-26	10/19/09	8 inches	<1.0	<2.0	<1.0	<500	<1.0	<1.0	<1.0	<10	<1.0	<20	<2.0	<10	<10
		5	<1.1	<2.1	<1.1	<540	<1.1	<1.1	<1.1	<11	<1.1	<21	<2.1	<11	<11
SB-27	10/19/09	8 inches	<0.93	<1.9	<0.93	<460	<0.93	<0.93	<0.93	<9.3	<0.93	<19	<1.9	<9.3	<9.3
SB-28	10/19/09	1	<0.88	<1.8	<0.88	<440	<0.88	<0.88	<0.88	<8.8	<0.88	<18	<1.8	<8.8	<8.8
		5	<1.0	<2.0	<1.0	<500	<1.0	<1.0	<1.0	<10	<1.0	<20	<2.0	<10	<10
ESLs for Residential Soils (Shallow)			**NA**	**NA**	**NA**	**NA**	**NA**	**2,300**	**NA**	**NA**	**NA**	**3,900**	**23**	**77**	**1,300**
ESLs for Residential Soil (Deep)			**NA**	**NA**	**NA**	**NA**	**NA**	**3,300**	**NA**	**NA**	**NA**	**3,900**	**23**	**77**	**3,400**

Sample ID	Date	Depth (ft bgs)	n-Butyl benzene	n-Propyl benzene	o-xylene	p/m-Xylene	Para-Isopropyl Toluene	sec-Butyl benzene	Styrene	TAME	TBA	Tert-Butyl benzene	PCE	Toluene
CPT-03	10/21/09	1.5	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
		4.5	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<19	<0.96	<0.96	<0.96
CPT-04	10/21/09	1.5	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
		4.5	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
CPT-05	10/21/09	1.5	<0.99	<2.0	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<20	<0.99	<0.99	<0.99
		4.5	<0.92	<1.8	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<18	<0.92	<0.92	<0.92
CPT-06	10/21/09	1.5	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
		4.5	<1.2	<2.3	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<23	<1.2	<1.2	<1.2
RAD MW-1	10/26/09	5	<0.90	<1.8	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<18	<0.90	<0.90	<0.90
SB-01	10/21/09	1	<0.91	<1.8	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<18	<0.91	<0.91	<0.91
SB-02	10/21/09	1	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
SB-03	10/21/09	1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
SB-04	10/19/09	8 inches	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-CPT-4A	12/03/09	1	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
		5	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
		10	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<19	<0.93	<0.93	<0.93
SB-CPT-4A**	12/03/09	1	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0
		5	<5.3	<5.3	<11	<11	<5.3	<5.3	<5.3	---	---	<5.3	<5.3	<5.3
		10	<5.6	<5.6	<11	<11	<5.6	<5.6	<5.6	---	---	<5.6	<5.6	<5.6
SB-CPT-4WI	12/03/09	1	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
		5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		10	<0.85	<1.7	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<17	<0.85	<0.85	<0.85
SB-CPT-4WI**	12/03/09	1	<5.1	<5.1	<10	<10	<5.1	<5.1	<5.1	---	---	<5.1	<5.1	<5.1
		5	<4.8	<4.8	<9.7	<9.7	<4.8	<4.8	<4.8	---	---	<4.8	<4.8	<4.8
		10	<4.0	<4.0	<8.1	<8.1	<4.0	<4.0	<4.0	---	---	<4.0	<4.0	<4.0
SB-CPT-4SI	12/03/09	1	<0.98	<2.0	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<20	<0.98	<0.98	<0.98
		5	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
		10	<0.82	<1.6	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<16	<0.82	<0.82	<0.82
SB-CPT-4SI**	12/03/09	1	<4.5	<4.5	<9.1	<9.1	<4.5	<4.5	<4.5	---	---	<4.5	<4.5	<4.5
		5	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0
		10	<4.2	<4.2	<8.4	<8.4	<4.2	<4.2	<4.2	---	---	<4.2	<4.2	<4.2
SB-CPT-4NI	12/03/09	1	<1.2	<2.4	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<24	<1.2	<1.2	<1.2
		5	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
		10	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<19	<0.96	<0.96	<0.96
SB-CPT-4NI**	12/03/09	1	<5.5	<5.5	<11	<11	<5.5	<5.5	<5.5	---	---	<5.5	<5.5	<5.5
		5	<5.1	<5.1	<10	<10	<5.1	<5.1	<5.1	---	---	<5.1	<5.1	<5.1
		10	<5.6	<5.6	<11	<11	<5.6	<5.6	<5.6	---	---	<5.6	<5.6	<5.6
SB-4A	12/03/09	1	<0.80	<1.6	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<16	<0.80	<0.80	<0.80
		5	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<19	<0.96	<0.96	<0.96
SB-4A**	12/03/09	1	<4.4	<4.4	<8.8	<8.8	<4.4	<4.4	<4.4	---	---	<4.4	<4.4	<4.4
		5	<4.5	<4.5	<8.9	<8.9	<4.5	<4.5	<4.5	---	---	<4.5	<4.5	<4.5
SB-05	10/22/09	1	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-06	10/22/09	1	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
SB-07	10/21/09	1	<0.90	<1.8	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<18	<0.90	<0.90	<0.90
SB-08	10/21/09	1	<0.83	<1.7	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<17	<0.83	<0.83	<0.83
SB-09	10/21/09	1	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
SB-10	10/20/09	5	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
SB-11	10/21/09	1	<0.82	<1.6	<0.82	<1.6	<0.82	<0.82	<0.82	<0.82	<16	<0.82	<0.82	<0.82
SB-12	10/20/09	1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
SB-13	10/20/09	1	<0.88	<1.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<18	<0.88	<0.88	<0.88
SB-14	10/23/09	1	<1.2	<2.3	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<23	<1.2	<1.2	<1.2
SB-15	10/21/09	1	<0.89	<1.8	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<18	<0.89	<0.89	<0.89
		5	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
SB-16	10/19/09	8 inches	<0.90	<1.8	<0.90	<1.8	<0.90	<0.90	<0.90	<0.90	<18	<0.90	<0.90	<0.90
SB-17	10/21/09	1	<0.88	<1.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<18	<0.88	<0.88	<0.88
SB-18	10/20/09	1	<0.86	<1.7	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<17	<0.86	<0.86	<0.86
SB-18A	12/03/09	1	<0.89	<1.8	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<18	<0.89	<0.89	<0.89
		5	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<19	<0.93	<0.93	<0.93
SB-18A**	12/03/09	1	<4.6	<4.6	<9.2	<9.2	<4.6	<4.6	<4.6	---	---	<4.6	<4.6	<4.6
		5	<4.9	<4.9	<9.8	<9.8	<4.9	<4.9	<4.9	---	---	<4.9	<4.9	<4.9
SB-19	10/22/09	1	<0.94	<1.9	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<19	<0.94	<0.94	**3.1**
SB-19A	12/03/09	1	<0.81	<1.6	<0.81	<1.6	<0.81	<0.81	<0.81	,0.81	<16	<0.81	<0.81	<4.1
		5	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-19A**	12/03/09	1	<3.9	<3.9	<7.8	<7.8	<3.9	<3.9	<3.9	---	---	<3.9	<3.9	<3.9
		5	<5.4	<5.4	<11	<11	<5.4	<5.4	<5.4	---	---	<5.4	<5.4	<5.4
SB-20	10/21/09	1	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
SB-21	10/23/09	1	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
SB-21A	12/03/09	1	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-21A**	12/03/09	1	<4.8	<4.8	<9.5	<9.5	<4.8	<4.8	<4.8	---	---	<4.8	<4.8	<4.8
		5	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0
SB-22	10/22/09	1	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<19	<0.96	<0.96	<0.96
SB-23	10/20/09	1	<0.86	<1.7	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<17	<0.86	<0.86	<0.86
SB-24	10/20/09	1	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
		5	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
SB-25	10/20/09	1	<0.98	<2.0	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<20	<0.98	<0.98	<0.98
SB-26	10/19/09	8 inches	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
		5	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-27	10/19/09	8 inches	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<19	<0.93	<0.93	<0.93
SB-28	10/19/09	1	<0.88	<1.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<18	<0.88	<0.88	<0.88
		5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
ESLs for Residential Soils (Shallow)			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**1,500**	**NA**	**75**	**NA**	**370**	**2,900**
ESLs for Residential Soil (Deep)			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**1,500**	**NA**	**75**	**NA**	**700**	**2,900**

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Table 3B. Soil Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	trans-1,2-Dichloro ethene	trans-1,3-Dichloro propene	TCE	Trichloro fluoro methane	Vinyl Acetate	VC
CPT-03	10/21/09	1.5	<1.0	<2.1	<2.1	<10	<10	<1.0
		4.5	<0.96	<1.9	<1.9	<9.6	<9.6	<0.96
CPT-04	10/21/09	1.5	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
		4.5	<1.1	<2.1	<2.1	<11	<11	<1.1
CPT-05	10/21/09	1.5	<0.99	<2.0	<2.0	<9.9	<9.9	<0.99
		4.5	<0.92	<1.8	<1.8	<9.2	<9.2	<0.92
CPT-06	10/21/09	1.5	<1.0	<2.1	<2.1	<10	<10	<1.0
		4.5	<1.2	<2.3	<2.3	<12	<12	<1.2
RAD MW-1	10/26/09	5	<0.90	<1.8	<1.8	<9.0	<9.0	<0.90
SB-01	10/21/09	1	<0.91	<1.8	<1.8	<9.1	<9.1	<0.91
SB-02	10/21/09	1	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
SB-03	10/21/09	1	<1.0	<2.0	<2.0	<10	<10	<1.0
SB-04	10/19/09	8 inches	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-CPT-4A	12/03/09	1	<1.1	<2.1	<2.1	<11	<11	<1.1
		5	<1.1	<2.2	<2.2	<11	<11	<1.1
		10	<0.93	<1.9	<1.9	<0.93	<0.93	<0.93
SB-CPT-4A**	12/03/09	1	<5.0	<5.0	<5.0	<5.0	<50	<5.0
		5	<5.3	<5.3	<5.3	<5.3	<53	<5.3
		10	<5.6	<5.6	<5.6	<5.6	<56	<5.6
SB-CPT-4WI	12/03/09	1	<1.1	<2.1	<2.1	<11	<11	<1.1
		5	<1.0	<2.0	<2.0	<10	<10	<1.0
		10	<0.85	<1.7	<1.7	<8.5	<8.5	<0.85
SB-CPT-4WI**	12/03/09	1	<5.1	<5.1	<5.1	<5.1	<51	<5.1
		5	<4.8	<4.8	<4.8	<4.8	<48	<4.8
		10	<4.0	<4.0	<4.0	<4.0	<40	<4.0
SB-CPT-4SI	12/03/09	1	<0.98	<2.0	<2.0	<9.8	<9.8	<0.98
		5	<1.0	<2.1	<2.1	<10	<10	<1.0
		10	<0.82	<1.6	<1.6	<8.2	<8.2	<0.82
SB-CPT-4SI**	12/03/09	1	<4.5	<4.5	<4.5	<4.5	<45	<4.5
		5	<5.0	<5.0	<5.0	<5.0	<50	<5.0
		10	<4.2	<4.2	<4.2	<4.2	<42	<4.2
SB-CPT-4NI	12/03/09	1	<1.2	<2.4	<2.4	<12	<12	<1.2
		5	<1.1	<2.1	<2.1	<11	<11	<1.1
		10	<0.96	<1.9	<1.9	<9.6	<9.6	<0.96
SB-CPT-4NI**	12/03/09	1	<5.5	<5.5	<5.5	<5.5	<55	<5.5
		5	<5.1	<5.1	<5.1	<5.1	<51	<5.1
		10	<5.6	<5.6	<5.6	<5.6	<56	<5.6
SB-4A	12/03/09	1	<0.80	<1.6	<1.6	<8.0	<8.0	<0.80
		5	<0.96	<1.9	<1.9	<9.6	<9.6	<0.96
SB-4A**	12/03/09	1	<4.4	<4.4	<4.4	<4.4	<44	<4.4
		5	<4.5	<4.5	<4.5	<4.5	<45	<4.5
SB-05	10/22/09	1	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-06	10/22/09	1	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
SB-07	10/21/09	1	<0.90	<1.8	<1.8	<9.0	<9.0	<0.90
SB-08	10/21/09	1	<0.83	<1.7	<1.7	<8.3	<8.3	<0.83
SB-09	10/21/09	1	<1.0	<2.1	<2.1	<10	<10	<1.0
SB-10	10/20/09	5	<1.0	<2.1	<2.1	<10	<10	<1.0
SB-11	10/21/09	1	<0.82	<1.6	<1.6	<8.2	<8.2	<0.82
SB-12	10/20/09	1	<1.0	<2.0	<2.0	<10	<10	<1.0
SB-13	10/20/09	1	<0.88	<1.8	<1.8	<8.8	<8.8	<0.88
SB-14	10/23/09	1	<1.2	<2.3	<2.3	<12	<12	<1.2
SB-15	10/21/09	1	<0.89	<1.8	<1.8	<8.9	<8.9	<0.89
		5	<1.1	<2.2	<2.2	<11	<11	<1.1
SB-16	10/19/09	8 inches	<0.90	<1.8	<1.8	<9.0	<9.0	<0.90
SB-17	10/21/09	1	<0.88	<1.8	<1.8	<8.8	<8.8	<0.88
SB-18	10/20/09	1	<0.86	<1.7	<1.7	<8.6	<8.6	<0.86
SB-18A	12/03/09	1	<0.89	<1.8	<1.8	<8.9	<8.9	<0.89
		5	<0.93	<1.9	<1.9	<0.93	<0.93	<0.93
SB-18A**	12/03/09	1	<4.6	<4.6	<4.6	<4.6	<46	<4.6
		5	<4.9	<4.9	<4.9	<4.9	<49	<4.9
SB-19	10/22/09	1	<0.94	<1.9	<1.9	<9.4	<9.4	<0.94
SB-19A	12/03/09	1	<0.81	<1.6	<1.6	<8.1	<8.1	<0.94
		5	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-19A**	12/03/09	1	<3.9	<3.9	<3.9	<3.9	<39	<3.9
		5	<5.4	<5.4	<5.4	<5.4	<54	<5.4
SB-20	10/21/09	1	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
SB-21	10/23/09	1	<1.1	<2.2	<2.2	<11	<11	<1.1
SB-21A	12/03/09	1	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-21A**	12/03/09	1	<4.8	<4.8	<4.8	<4.8	<48	<4.8
		5	<5.0	<5.0	<5.0	<5.0	<50	<5.0
SB-22	10/22/09	1	<0.96	<1.9	<1.9	<9.6	<9.6	<0.96
SB-23	10/20/09	1	<0.86	<1.7	<1.7	<8.6	<8.6	<0.86
SB-24	10/20/09	1	<1.0	<2.1	<2.1	<10	<10	<1.0
		5	<1.1	<2.2	<2.2	<11	<11	<1.1
SB-25	10/20/09	1	<0.98	<2.0	<2.0	<9.8	<9.8	<0.98
SB-26	10/19/09	8 inches	<1.0	<2.0	<2.0	<10	<10	<1.0
		5	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-27	10/19/09	8 inches	<0.93	<1.9	<1.9	<9.3	<9.3	<0.93
SB-28	10/19/09	1	<0.88	<1.8	<1.8	<8.8	<8.8	<0.88
		5	<1.0	<2.0	<2.0	<10	<10	<1.0
ESLs for Residential Soils (Shallow)			**670**	**NA**	**460**	**NA**	**NA**	**22**
ESLs for Residential Soil (Deep)			**670**	**NA**	**460**	**NA**	**NA**	**85**

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Table 3B. Soil Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	DRO (mg/kg)	1,1,1,2-Tetra chloro ethane	1,1,1-Trichloro ethane	1,1,2,2-Tetra chloro ethane	1,1,2-Trichloro ethane	1,1-DCA	1,1-DCE	1,1-Dichloro propene	1,2,3-Trichloro benzene	1,2,3-Trichloro propane	1,2,4-Trichloro benzene	1,2,4-Trimethyl benzene	1,2-Dibromo-3-Chloro propane	1,2-Dichloro benzene	1,2-DCA	1,2-Dichloro propane	1,3,5-Trimethyl benzene	1,3-Dichloro benzene	1,3-Dichloro propane	1,4-Dichloro benzene	2,2-Dichloro propane	2-Butanone	2-Chloro toluene	4-Chloro toluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo benzene	Bromo chloro methane	Bromo dichloro methane	Bromoform	Bromo methane
SB-29	10/19/09	1	<5.0	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.87	<0.87	<0.87	<1.7	<0.87	<0.87	<0.87	<4.3	<17	<0.87	<0.87	<17	<43	<0.87	<0.87	<1.7	<0.87	<4.3	<17
SB-30	10/19/09	8 inches	<5.0	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<4.2	<17	<0.85	<0.85	<17	**110**	<0.85	<0.85	<1.7	<0.85	<4.2	<17
SB-31	10/19/09	1	<5.0	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95	<4.8	<19	<0.95	<0.95	<19	<48	<0.95	<0.95	<1.9	<0.95	<4.8	<19
SB-32	10/19/09	1	<5.0	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<4.3	<17	<0.86	<0.86	<17	**46**	<0.86	<0.86	<1.7	<0.86	<4.3	<17
SB-33	10/19/09	1	<5.0	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<0.84	<17	<42	<0.84	<0.84	<1.7	<0.84	<4.2	<17
SB-34	10/19/09	1	<5.0	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<4.5	**24**	<0.89	<0.89	<18	<2,100	<0.89	<0.89	<1.8	<0.89	<4.5	<18
SB-34A	12/03/09	1	---	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83	<1.7	<1.7	<1.7	<1.7	<1.7	<4.1	<0.83	<0.83	<0.83	<1.7	<0.83	<0.83	<0.83	<4.1	<17	<0.83	<0.83	<17	<41	<0.83	<0.83	<1.7	<0.83	<4.1	<17
		5	---	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.34	<21	<1.1	<1.1	<21	<54	<1.1	<1.1	<2.1	<1.1	<5.34	<21
SB-34A**	12/03/09	1	---	<4.6	<4.6	<4.6*	<4.6*	<4.6	<4.6	<4.6	<4.6*	<4.6*	<4.6	<4.6	<4.6*	<4.6	<4.6*	<4.6	<4.6	<4.6	<4.6*	<4.6	<4.6	<46*	<4.6	<4.6	<46*	**69**	<4.6	<4.6	<18	<4.6	<4.6*	<9.1
		5	---	<4.2	<4.2	<4.2*	<4.2*	<4.2	<4.2	<4.2	<4.2*	<4.2*	<4.2	<4.2	<4.2*	<4.2	<4.2*	<4.2	<4.2	<4.2	<4.2*	<4.2	<4.2	<42*	<4.2	<4.2	<42*	<42	<4.2	<4.2	<17	<4.2	<4.2*	<8.4
SB-35	10/19/09	1	<5.0	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<4.3	**21**	<0.86	<0.86	<17	**170**	<0.86	<0.86	<1.7	<0.86	<4.3	<17
		5	<5.0	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<0.84	<17	**67**	<0.84	<0.84	<1.7	<0.84	<4.2	<17
SB-36	10/20/09	1	<5.0	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<4.2	<17	<0.84	<0.84	<17	**120**	<0.84	<0.84	<1.7	<0.84	<4.2	<17
SB-37	10/20/09	1	<5.0	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<4.2	<17	<0.85	<0.85	<17	**65**	<0.85	<0.85	<1.7	<0.85	<4.2	<17
SB-38	10/20/09	1	<5.0	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<4.8	<19	<0.96	<0.96	<19	**130**	<0.96	<0.96	<1.9	<0.96	<4.8	<19
		5	<5.0	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.89	<0.89	<0.89	<1.8	<0.89	<0.89	<0.89	<4.4	<18	<0.89	<0.89	<18	**65**	<0.89	<0.89	<1.8	<0.89	<4.4	<18
SB-38A	12/03/09	1	---	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.7	<19	<0.93	<0.93	<19	**76**	<0.93	<0.93	<1.9	<0.93	<4.7	<19
		5	---	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.95	<0.95	<0.95	<1.9	<0.95	<0.95	<0.95	<4.8	<19	<0.95	<0.95	<19	**55**	<0.95	<0.95	<1.9	<0.95	<4.8	<19
SB-38A**	12/03/09	1	---	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<43**	**<4.3**	**<4.3**	**<43**	**50**	**<4.3**	**<4.3**	**<17**	**<4.3**	**<4.3**	**<8.7**
		5	---	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<43	<4.3	<4.3	<43	<43	<4.3	<4.3	<17	<4.3	<4.3	<8.7
SB-39	10/20/09	1	<5.0	<0.81	<0.81	<1.6	<0.81	<0.81	<0.81	<1.6	<1.6	<1.6	<1.6	<1.6	<4.0	<0.81	<0.81	<0.81	<1.6	<0.81	<0.81	<0.81	<4.0	<16	<0.81	<0.81	<16	**130**	<0.81	<0.81	<1.6	<0.81	<4.0	<16
SB-40	10/20/09	8 inches	<5.0	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<1.8	<1.8	<1.8	<1.8	<1.8	<4.4	<0.88	<0.88	<0.88	<1.8	<0.88	<0.88	<0.88	<4.4	<18	<0.88	<0.88	<18	<2,400	<0.88	<0.88	<1.8	<0.88	<4.4	<18
SB-40A	12/03/09	1	---	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.9	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.9	<19	<0.97	<0.97	<19	**78**	<0.97	<0.97	<1.9	<0.97	<4.9	<19
		5	---	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.6	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.6	<22	<1.1	<1.1	<22	**63**	<1.1	<1.1	<2.2	<1.1	<5.4	<22
SB-40A**	12/03/09	1	---	<4.2	<4.2	<4.2*	<4.2*	<4.2	<4.2	<4.2	<4.2*	<4.2*	<4.2	<4.2	<4.2*	<4.2	<4.2*	<4.2	<4.2	<4.2	<4.2*	<4.2	<4.2	<42*	<4.2	<4.2	<42*	**63**	<4.2	<4.2	<17	<4.2	<4.2*	<8.5
		5	---	<4.3	<4.3	<4.3*	<4.3*	<4.3	<4.3	<4.3	<4.3*	<4.3*	<4.3	<4.3	<4.3*	<4.3	<4.3*	<4.3*	<4.3	<4.3	<4.3*	<4.3	<4.3	<43*	<4.3	<4.3	<4.3*	<43	<4.3	<4.3	<17	<4.3	<4.3*	<8.6
SB-41	10/20/09	5 inches	<5.0	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<0.99	<0.99	<0.99	<2.0	<0.99	<0.99	<0.99	<5.0	<20	<0.99	<0.99	<20	**100**	<0.99	<0.99	<2.0	<0.99	<5.0	<20
		5	<5.0	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.9	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.9	<19	<0.97	<0.97	<19	<49	<0.97	<0.97	<1.9	<0.97	<4.9	<19
SB-42	10/20/09	1	<5.0	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91	<4.5	<18	<0.91	<0.91	<18	**110**	<0.91	<0.91	<1.8	<0.91	<4.5	<18
SB-43	10/20/09	1	<5.0	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<4.9	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<4.9	<20	<0.98	<0.98	<20	**80**	<0.98	<0.98	<2.0	<0.98	<4.9	<20
SB-44	10/23/09	1	<5.0	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.4	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.4	<22	<1.1	<1.1	<22	**90**	<1.1	<1.1	<2.2	<1.1	<5.4	<22
SB-45	10/23/09	1	<5.0	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.8	<19	<0.97	<0.97	<19	**100**	<0.97	<0.97	<1.9	<0.97	<4.8	<19
		15	---	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	<52	<1.0	<1.0	<2.1	<1.0	<5.2	<21
SB-46	10/22/09	1	<5.0	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.3	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.3	<21	<1.1	<1.1	<21	**85**	<1.1	<1.1	<2.1	<1.1	<5.3	<21
SB-51	10/21/09	1	<5.0	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<0.85	<4.3	<17	<0.85	<0.85	<17	**95**	<0.85	<0.85	<1.7	<0.85	<4.3	<17
		5	<5.0	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<5.9	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<1.2	<5.9	<24	<1.2	<1.2	<24	**88**	<1.2	<1.2	<2.4	<1.2	<5.9	<24
SB-55	10/21/09	1	<5.0	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.7	<19	<0.93	<0.93	<19	**94**	<0.93	<0.93	<1.9	<0.93	<4.7	<19
		5	<5.0	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2	<2.3	<2.3	<2.3	<2.3	<2.3	<5.8	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	<1.2	<5.8	<23	<1.2	<1.2	<23	**100**	<1.2	<1.2	<2.3	<1.2	<5.8	<23
SB-56	10/21/09	1	<5.0	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.96	<0.96	<0.96	<1.9	<0.96	<0.96	<0.96	<4.8	<19	<0.96	<0.96	<19	**88**	<0.96	<0.96	<1.9	<0.96	<4.8	<19
SB-59	10/21/09	1	<5.0	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80	<1.6	<1.6	<1.6	<1.6	<1.6	<4.0	<0.80	<0.80	<0.80	<1.6	<0.80	<0.80	<0.80	<4.0	<16	<0.80	<0.80	<16	**77**	<0.80	<0.80	<1.6	<0.80	<4.0	<16
		5	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	<50	<1.0	<1.0	<2.0	<1.0	<5.0	<20
SB-60	10/22/09	1	<5.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<20	<1.0	<1.0	<20	**68**	<1.0	<1.0	<2.0	<1.0	<5.0	<20
SB-61	10/21/09	1	<5.0	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<2.2	<2.2	<2.2	<5.5	<1.1	<1.1	<1.1	<2.2	<1.1	<1.1	<1.1	<5.5	<22	<1.1	<1.1	<22	**58**	<1.1	<1.1	<2.2	<1.1	<5.5	<22
		5	<5.0	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.4	<21	<1.1	<1.1	<21	<54	<1.1	<1.1	<2.1	<1.1	<5.4	<21
SB-62	10/22/09	1	<5.0	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<4.6	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92	<4.6	<18	<0.92	<0.92	<18	**96**	<0.92	<0.92	<1.8	<0.92	<4.6	<18
		15	<5.0	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<1.9	<1.9	<1.9	<1.9	<1.9	<4.8	<0.97	<0.97	<0.97	<1.9	<0.97	<0.97	<0.97	<4.8	<19	<0.97	<0.97	<19	<48	<0.97	<0.97	<1.9	<0.97	<4.8	<19
SB-63	10/22/09	1	**6.8**	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<4.9	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<4.9	<20	<0.98	<0.98	<20	**100**	<0.98	<0.98	<2.0	<0.98	<4.9	<20
		15	<5.0	<0.68	<0.68	<1.4	<0.68	<0.68	<0.68	<1.4	<1.4	<1.4	<1.4	<1.4	<3.4	<0.68	<0.68	<0.68	<1.4	<0.68	<0.68	<0.68	<3.4	<14	<0.68	<0.68	<14	<34	<0.68	<0.68	<1.4	<0.68	<3.4	<14
SB-64	10/22/09	15	<5.0	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<4.3	<17	<0.86	<0.86	<17	<43	<0.86	<0.86	<1.7	<0.86	<4.3	<17
SB-65	10/22/09	15	<5.0	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<1.7	<1.7	<1.7	<1.7	<1.7	<4.3	<0.86	<0.86	<0.86	<1.7	<0.86	<0.86	<0.86	<4.3	<17	<0.86	<0.86	<17	<43	<0.86	<0.86	<1.7	<0.86	<4.3	<17
SB-66	10/22/09	15	<5.0	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92	<1.8	<1.8	<1.8	<1.8	<1.8	<4.6	<0.92	<0.92	<0.92	<1.8	<0.92	<0.92	<0.92	<4.6	<18	<0.92	<0.92	<18	<46	<0.92	<0.92	<1.8	<0.92	<4.6	<18
SB-67	10/21/09	1	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	**100**	<1.0	<1.0	<2.1	<1.0	<5.2	<21
SB-68	10/30/09	1	<5.0	<1.6	<1.6	<3.1	<1.6	<1.6	<1.6	<3.1	<3.1	<3.1	<3.1	<3.1	<7.8	<1.6	<1.6	<1.6	<3.1	<1.6	<1.6	<1.6	<7.8	<31	<1.6	<1.6	<31	**180**	<1.6	<1.6	<3.1	<1.6	<7.8	<31
		5	<5.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<2.1	<2.1	<2.1	<2.1	<2.1	<5.2	<1.0	<1.0	<1.0	<2.1	<1.0	<1.0	<1.0	<5.2	<21	<1.0	<1.0	<21	**86**	<1.0	<1.0	<2.1	<1.0	<5.2	<21
SB-68A	12/03/09	1	---	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<2.1	<2.1	<2.1	<2.1	<2.1	<5.4	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	<1.1	<5.4	<21	<1.1	<1.1	<21	<54	<1.1	<1.1	<2.1	<1.1	<5.4	<21
		5	---	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91	<1.8	<1.8	<1.8	<1.8	<1.8	<4.5	<0.91	<0.91	<0.91	<1.8	<0.91	<0.91	<0.91	<4.5	<18	<0.91	<0.91	<18	<45	<0.91	<0.91	<1.8	<0.91	<4.5	<18
SB-68A**	12/03/09	1	---	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<57	<5.7	<5.7	<57*	<57	<5.7	<5.7	<23	<5.7	<5.7	<11
		5	---	<4.6	<4.6	<4.6	<4.6*	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<46	<4.6	<4.6	<46*	<46	<4.6	<4.6	<18	<4.6	<4.6	<9.2
SB-69	11/05/09	1	<5.0	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<2.0	<2.0	<2.0	<2.0	<2.0	<4.9	<0.98	<0.98	<0.98	<2.0	<0.98	<0.98	<0.98	<4.9	<20	<0.98	<0.98	<20	**55**	<0.98	<0.98	<2.0	<0.98	<4.9	<20
		5	<5.0	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.6	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.6	<19	<0.93	<0.93	<19	<46	<0.93	<0.93	<1.9	<0.93	<4.6	<19
ESLs for Residential Soils (Shallow)			**83***(mg/kg)**	**24**	**7,800**	**18**	**70**	**200**	**1,000**	**NA**	**NA**	**NA**	**1,500**	**NA**	**4.5**	**1,100**	**4.5**	**120**	**NA**	**7,400**	**NA**	**590**	**NA**	**NA**	**NA**	**NA**	**NA**	**500**	**44**	**NA**	**NA**	**570**	**2,200**	**390**
ESLs for Residential Soil (Deep)			**NA**	**24**	**7,800**	**18**	**70**	**200**	**1,000**	**NA**	**NA**	**NA**	**1,500**	**NA**	**4.5**	**1,100**	**4.5**	**120**	**NA**	**7,400**	**NA**	**590**	**NA**	**NA**	**NA**	**NA**	**NA**	**500**	**44**	**NA**	**NA**	**1,900**	**2,200**	**390**

ARCADIS

Table 3B. Soil Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Carbon Disulfide	Carbon Tetra chloride	Chloro benzene	Chloro ethane	Chloroform	Chloro methane	cis-1,2-DCE	cis-1,3-Dichloro propene	Dibromo chloro methane	Dibromo methane	Dichloro difluoro methane	Diiso propyl Ether	Ethanol	ETBE	Ethyl benzene	Ethylene Dibromide	Freon 113	Isopropyl benzene	MEK	MTBE	Methylene Chloride	Naphthalene	n-Butyl benzene	n-Propyl benzene	o-xylene	p/m-Xylene	Para-Isopropyl Toluene	sec-Butyl benzene	Styrene	TAME	TBA	Tert-Butyl benzene	PCE	Toluene
SB-29	10/19/09	1	<8.7	<0.87	<0.87	<1.7	<0.87	<17	<0.87	<0.87	<1.7	<0.87	<1.7	<0.87	<430	<0.87	<0.87	<0.87	<8.7	<0.87	<17	<1.7	<8.7	<8.7	<0.87	<1.7	<0.87	<1.7	<0.87	<0.87	<0.87	<0.87	<17	<0.87	<0.87	<0.87
SB-30	10/19/09	8 inches	<8.5	<0.85	<0.85	<1.7	<0.85	<17	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<420	<0.85	<0.85	<0.85	<8.5	<0.85	<17	<1.7	<8.5	<8.5	<0.85	<1.7	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<17	<0.85	<0.85	<0.85
SB-31	10/19/09	1	<9.5	<0.95	<0.95	<1.9	<0.95	<19	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<480	<0.95	<0.95	<0.95	<9.5	<0.95	<19	<1.9	<9.5	<9.5	<0.95	<1.9	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<19	<0.95	<0.95	<0.95
SB-32	10/19/09	1	<8.6	<0.86	<0.86	<1.7	<0.86	<17	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<430	<0.86	<0.86	<0.86	<8.6	<0.86	<17	<1.7	<8.6	<8.6	<0.86	<1.7	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<17	<0.86	<0.86	<0.86
SB-33	10/19/09	1	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<0.84	<17	<1.7	<8.4	<8.4	<0.84	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<17	<0.84	<0.84	<0.84
SB-34	10/19/09	1	<8.9	<0.89	<0.89	<1.8	<0.89	<18	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<450	<0.89	<0.89	<0.89	<8.9	<0.89	<18	<1.8	<8.9	<8.9	<0.89	<1.8	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<18	<0.89	<0.89	<0.89
SB-34A	12/03/09	1	<8.3	<0.83	<0.83	<1.7	<0.83	<17	<0.83	<0.83	<1.7	<0.83	<1.7	<0.83	<410	<0.83	<0.83	---	---	<0.83	<17	<1.7	<8.3	<8.3	<0.83	<1.7	<0.83	<1.7	<0.83	<0.83	<0.83	<0.83	<17	<0.83	<0.83	<0.83
		5	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1	<1.1	<2.1	<1.1	<540	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-34A**	12/03/09	1	<4.6	<4.6	<4.6	<9.1	<4.6	<9.1	<4.6	<4.6	<4.6	<9.1*	<9.1	---	---	---	<4.6	<4.6*	---	<4.6	<46*	<4.6*	<9.1	<9.1*	<4.6	<4.6	<9.1	<9.1	<4.6	<4.6	<4.6	---	---	<4.6	<4.6	<4.6
		5	<4.2	<4.2	<4.2	<8.4	<4.2	<8.4	<4.2	<4.2	<4.2	<8.4*	<8.4	---	---	---	<4.2	<4.2*	---	<4.2	<42*	<4.2*	<8.4	<8.4*	<4.2	<4.2	<8.4	<8.4	<4.2	<4.2	<4.2	---	---	<4.2	<4.2	<4.2
SB-35	10/19/09	1	<8.6	<0.86	<0.86	<1.7	<0.86	<17	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<430	<0.86	<0.86	<0.86	<8.6	<0.86	<17	<1.7	<8.6	<8.6	<0.86	<1.7	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<17	<0.86	<0.86	<0.86
		5	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<0.84	<17	<1.7	<8.4	<8.4	<0.84	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<17	<0.84	<0.84	<0.84
SB-36	10/20/09	1	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<1.7	<0.84	<1.7	<0.84	<420	<0.84	<0.84	<0.84	<8.4	<0.84	<17	<1.7	<8.4	<8.4	<0.84	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<17	<0.84	<0.84	<0.84
SB-37	10/20/09	1	<8.5	<0.85	<0.85	<1.7	<0.85	<17	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<420	<0.85	<0.85	<0.85	<8.5	<0.85	<17	<1.7	<8.5	<8.5	<0.85	<1.7	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<17	<0.85	<0.85	<0.85
SB-38	10/20/09	1	<9.6	<0.96	<0.96	<1.9	<0.96	<19	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<480	<0.96	<0.96	<0.96	<9.6	<0.96	<19	<1.9	<9.6	<9.6	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<19	<0.96	<0.96	<0.96
		5	<8.9	<0.89	<0.89	<1.8	<0.89	<18	<0.89	<0.89	<1.8	<0.89	<1.8	<0.89	<440	<0.89	<0.89	<0.89	<8.9	<0.89	<18	<1.8	<8.9	<8.9	<0.89	<1.8	<0.89	<1.8	<0.89	<0.89	<0.89	<0.89	<18	<0.89	<0.89	<0.89
SB-38A	12/03/09	1	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<470	<0.93	<0.93	---	---	<0.93	<19	<1.9	<0.93	<9.3	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<19	<0.93	<0.93	<0.93
		5	<9.5	<0.95	<0.95	<1.9	<0.95	<19	<0.95	<0.95	<1.9	<0.95	<1.9	<0.95	<480	<0.95	<0.95	---	---	<0.95	<19	<1.9	<0.95	<9.5	<0.95	<1.9	<0.95	<1.9	<0.95	<0.95	<0.95	<0.95	<19	<0.95	<0.95	<0.95
SB-38A**	12/03/09	1	<4.3	<4.3	<4.3	<8.7	<4.3	<8.7	<4.3	<4.3	<4.3	<8.7	<8.7	---	---	---	<4.3	<4.3	---	<4.3	<43	<4.3	<8.7	<8.7	<4.3	<4.3	<8.7	<8.7	<4.3	<4.3	<4.3	---	---	<4.3	<4.3	<4.3
		5	<4.3	<4.3	<4.3	<8.7	<4.3	<8.7	<4.3	<4.3	<4.3	<8.7	<8.7	---	---	---	<4.3	<4.3	---	<4.3	<43	<4.3	<8.7	<8.7	<4.3	<4.3	<8.7	<8.7	<4.3	<4.3	<4.3	---	---	<4.3	<4.3	<4.3
SB-39	10/20/09	1	<8.1	<0.81	<0.81	<1.6	<0.81	<16	<0.81	<0.81	<1.6	<0.81	<1.6	<0.81	<400	<0.81	<0.81	<0.81	<8.1	<0.81	<16	<1.6	<8.1	<8.1	<0.81	<1.6	<0.81	<1.6	<0.81	<0.81	<0.81	<0.81	<16	<0.81	<0.81	<0.81
SB-40	10/20/09	8 inches	<8.8	<0.88	<0.88	<1.8	<0.88	<18	<0.88	<0.88	<1.8	<0.88	<1.8	<0.88	<440	<0.88	<0.88	<0.88	<8.8	<0.88	<18	<1.8	<8.8	<8.8	<0.88	<1.8	<0.88	<1.8	<0.88	<0.88	<0.88	<0.88	<18	<0.88	<0.88	<0.88
SB-40A	12/03/09	1	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<490	<0.97	<0.97	---	----	<0.97	<19	<1.9	<9.7	<9.7	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
		5	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2	<1.1	<2.1	<1.1	<560	<1.1	<1.1	---	---	<1.1	<22	<2.2	<1.1	<11	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
SB-40A**	12/03/09	1	<4.2	<4.2	<4.2	<8.5	<4.2	<8.5	<4.2	<4.2	<4.2	<8.5*	<8.5	---	---	---	<4.2	<4.2*	---	<4.2	<42*	<4.2*	<8.5	<8.5*	<4.2	<4.2	<8.5	<8.5	<4.2	<4.2	<4.2	---	---	<4.2	<4.2	<4.2
		5	<4.3	<4.3	<4.3	<8.6	<4.3	<8.6	<4.3	<4.3	<4.3	<8.6*	<8.6	---	---	---	<4.3	<4.3*	---	<4.3	<43	<4.3*	<8.6	<8.6*	<4.3	<4.3	<8.6	<8.6	<4.3	<4.3	<4.3	---	---	<4.3	<4.3	<4.3
SB-41	10/20/09	5 inches	<9.9	<0.99	<0.99	<2.0	<0.99	<20	<0.99	<0.99	<2.0	<0.99	<2.0	<0.99	<500	<0.99	<0.99	<0.99	<9.9	<0.99	<20	<2.0	<9.9	<9.9	<0.99	<2.0	<0.99	<2.0	<0.99	<0.99	<0.99	<0.99	<20	<0.99	<0.99	<0.99
		5	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<490	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
SB-42	10/20/09	1	<9.1	<0.91	<0.91	<1.8	<0.91	<18	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<450	<0.91	<0.91	<0.91	<9.1	<0.91	<18	<1.8	<9.1	<9.1	<0.91	<1.8	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<18	<0.91	<0.91	<0.91
SB-43	10/20/09	1	<9.8	<0.98	<0.98	<2.0	<0.98	<20	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<490	<0.98	<0.98	<0.98	<9.8	<0.98	<20	<2.0	<9.8	<9.8	<0.98	<2.0	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<20	<0.98	<0.98	<0.98
SB-44	10/23/09	1	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<540	<1.1	<1.1	<1.1	<11	<1.1	<22	<2.2	<11	<11	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
SB-45	10/23/09	1	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<480	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
		15	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
SB-46	10/22/09	1	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1	<1.1	<2.1	<1.1	<530	<1.1	<1.1	<1.1	<11	<1.1	<21	<2.1	<11	<11	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-51	10/21/09	1	<8.5	<0.85	<0.85	<1.7	<0.85	<17	<0.85	<0.85	<1.7	<0.85	<1.7	<0.85	<430	<0.85	<0.85	<0.85	<8.5	<0.85	<17	<1.7	<8.5	<8.5	<0.85	<1.7	<0.85	<1.7	<0.85	<0.85	<0.85	<0.85	<17	<0.85	<0.85	<0.85
		5	<12	<1.2	<1.2	<2.4	<1.2	<24	<1.2	<1.2	<2.4	<1.2	<2.4	<1.2	<590	<1.2	<1.2	<1.2	<12	<1.2	<24	<2.4	<12	<12	<1.2	<2.4	<1.2	<2.4	<1.2	<1.2	<1.2	<1.2	<24	<1.2	<1.2	<1.2
SB-55	10/21/09	1	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<470	<0.93	<0.93	<0.93	<9.3	<0.93	<19	<1.9	<9.3	<9.3	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<19	<0.93	<0.93	<0.93
		5	<12	<1.2	<1.2	<2.3	<1.2	<23	<1.2	<1.2	<2.3	<1.2	<2.3	<1.2	<580	<1.2	<1.2	<1.2	<12	<1.2	<23	<2.3	<12	<12	<1.2	<2.3	<1.2	<2.3	<1.2	<1.2	<1.2	<1.2	<23	<1.2	<1.2	<1.2
SB-56	10/21/09	1	<9.6	<0.96	<0.96	<1.9	<0.96	<19	<0.96	<0.96	<1.9	<0.96	<1.9	<0.96	<480	<0.96	<0.96	<0.96	<9.6	<0.96	<19	<1.9	<9.6	<9.6	<0.96	<1.9	<0.96	<1.9	<0.96	<0.96	<0.96	<0.96	<19	<0.96	<0.96	<0.96
SB-59	10/21/09	1	<8.0	<0.80	<0.80	<1.6	<0.80	<16	<0.80	<0.80	<1.6	<0.80	<1.6	<0.80	<400	<0.80	<0.80	<0.80	<8.0	<0.80	<16	<1.6	<8.0	<8.0	<0.80	<1.6	<0.80	<1.6	<0.80	<0.80	<0.80	<0.80	<16	<0.80	<0.80	<0.80
		5	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<500	<1.0	<1.0	<1.0	<10	<1.0	<20	<2.0	<10	<10	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
SB-60	10/22/09	1	<10	<1.0	<1.0	<2.0	<1.0	<20	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<500	<1.0	<1.0	<1.0	<10	<1.0	<20	<2.0	<10	<10	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<1.0
SB-61	10/21/09	1	<11	<1.1	<1.1	<2.2	<1.1	<22	<1.1	<1.1	<2.2	<1.1	<2.2	<1.1	<550	<1.1	<1.1	<1.1	<11	<1.1	<22	<2.2	<11	<11	<1.1	<2.2	<1.1	<2.2	<1.1	<1.1	<1.1	<1.1	<22	<1.1	<1.1	<1.1
		5	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1	<1.1	<2.1	<1.1	<540	<1.1	<1.1	<1.1	<11	<1.1	<21	<2.1	<11	<11	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
SB-62	10/22/09	1	<9.2	<0.92	<0.92	<1.8	<0.92	<18	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<460	<0.92	<0.92	<0.92	<9.2	<0.92	<18	<1.8	<9.2	<9.2	<0.92	<1.8	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<18	<0.92	<0.92	<0.92
		15	<9.7	<0.97	<0.97	<1.9	<0.97	<19	<0.97	<0.97	<1.9	<0.97	<1.9	<0.97	<480	<0.97	<0.97	<0.97	<9.7	<0.97	<19	<1.9	<9.7	<9.7	<0.97	<1.9	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<19	<0.97	<0.97	<0.97
SB-63	10/22/09	1	<9.8	<0.98	<0.98	<2.0	<0.98	<20	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<490	<0.98	<0.98	<0.98	<9.8	<0.98	<20	<2.0	<9.8	<9.8	<0.98	<2.0	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<20	<0.98	<0.98	<0.98
		15	<6.8	<0.68	<0.68	<1.4	<0.68	<14	<0.68	<0.68	<1.4	<0.68	<1.4	<0.68	<340	<0.68	<0.68	<0.68	<6.8	<0.68	<14	<1.4	<6.8	<6.8	<0.68	<1.4	<0.68	<1.4	<0.68	<0.68	<0.68	<0.68	<14	<0.68	<0.68	<0.68
SB-64	10/22/09	15	<8.6	<0.86	<0.86	<1.7	<0.86	<17	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<430	<0.86	<0.86	<0.86	<8.6	<0.86	<17	<1.7	<8.6	<8.6	<0.86	<1.7	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<17	<0.86	<0.86	<0.86
SB-65	10/22/09	15	<8.6	<0.86	<0.86	<1.7	<0.86	<17	<0.86	<0.86	<1.7	<0.86	<1.7	<0.86	<430	<0.86	<0.86	<0.86	<8.6	<0.86	<17	<1.7	<8.6	<8.6	<0.86	<1.7	<0.86	<1.7	<0.86	<0.86	<0.86	<0.86	<17	<0.86	<0.86	<0.86
SB-66	10/22/09	15	<9.2	<0.92	<0.92	<1.8	<0.92	<18	<0.92	<0.92	<1.8	<0.92	<1.8	<0.92	<460	<0.92	<0.92	<0.92	<9.2	<0.92	<18	<1.8	<9.2	<9.2	<0.92	<1.8	<0.92	<1.8	<0.92	<0.92	<0.92	<0.92	<18	<0.92	<0.92	<0.92
SB-67	10/21/09	1	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
SB-68	10/30/09	1	<16	<1.6	<1.6	<3.1	<1.6	<31	<1.6	<1.6	<3.1	<1.6	<3.1	<1.6	<780	<1.6	<1.6	<1.6	<16	<1.6	<31	<3.1	<16	<16	<1.6	<3.1	<1.6	<3.1	<1.6	<1.6	<1.6	<1.6	<31	<1.6	<1.6	<1.6
		5	<10	<1.0	<1.0	<2.1	<1.0	<21	<1.0	<1.0	<2.1	<1.0	<2.1	<1.0	<520	<1.0	<1.0	<1.0	<10	<1.0	<21	<2.1	<10	<10	<1.0	<2.1	<1.0	<2.1	<1.0	<1.0	<1.0	<1.0	<21	<1.0	<1.0	<1.0
SB-68A	12/03/09	1	<11	<1.1	<1.1	<2.1	<1.1	<21	<1.1	<1.1	<2.1	<1.1	<2.1	<1.1	<540	<1.1	<1.1	---	---	<1.1	<21	<2.1	<11	<11	<1.1	<2.1	<1.1	<2.1	<1.1	<1.1	<1.1	<1.1	<21	<1.1	<1.1	<1.1
		5	<9.1	<0.91	<0.91	<1.8	<0.91	<18	<0.91	<0.91	<1.8	<0.91	<1.8	<0.91	<450	<0.91	<0.91	<0.91	<9.1	<0.91	<18	<1.8	<9.1	<9.1	<0.91	<1.8	<0.91	<1.8	<0.91	<0.91	<0.91	<0.91	<18	<0.91	<0.91	<0.91
SB-68A**	12/03/09	1	<5.7	<5.7	<5.7	<11	<5.7	<11	<5.7	<5.7	<5.7	<11	<11	---	---	---	<5.7	<5.7	---	<5.7	<57	<5.7	<11	<11	<5.7	<5.7	<11	<11	<5.7	<5.7	<5.7	---	---	<5.7	<5.7	<5.7
		5	<4.6	<4.6	<4.6	<9.2	<4.6	<9.2	<4.6	<4.6	<4.6	<9.2	<9.2	---	---	---	<4.6	<4.6	---	<4.6	<46	<4.6	<9.2	<9.2	<4.6	<4.6	<9.2	<9.2	<4.6	<4.6	<4.6	---	---	<4.6	<4.6	<4.6
SB-69	11/05/09	1	<9.8	<0.98	<0.98	<2.0	<0.98	<20	<0.98	<0.98	<2.0	<0.98	<2.0	<0.98	<490	<0.98	<0.98	<0.98	<9.8	<0.98	<20	<2.0	<9.8	<9.8	<0.98	<2.0	<0.98	<2.0	<0.98	<0.98	<0.98	<0.98	<20	<0.98	<0.98	<0.98
		5	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<1.9	<0.93	<1.9	<0.93	<460	<0.93	<0.93	<0.93	<9.3	<0.93	<19	<1.9	<9.3	<9.3	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<19	<0.93	<0.93	<0.93
ESLs for Residential Soils (Shallow)			**NA**	**20**	**1,500**	**850**	**680**	**6,400**	**190**	**NA**	**7600**	**NA**	**NA**	**NA**	**NA**	**NA**	**2,300**	**NA**	**NA**	**NA**	**3,900**	**23**	**77**	**1,300**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**1,500**	**NA**	**75**	**NA**	**370**	**2,900**
ESLs for Residential Soil (Deep)			**NA**	**110**	**1,500**	**850**	**2,100**	**6,400**	**190**	**NA**	**8300**	**NA**	**NA**	**NA**	**NA**	**NA**	**3,300**	**NA**	**NA**	**NA**	**3,900**	**23**	**77**	**3,400**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**1,500**	**NA**	**75**	**NA**	**700**	**2,900**

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Table 3B. Soil Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	trans-1,2-Dichloro ethene	trans-1,3-Dichloro propene	TCE	Trichloro fluoro methane	Vinyl Acetate	VC
SB-29	10/19/09	1	<0.87	<1.7	<1.7	<8.7	<8.7	<0.87
SB-30	10/19/09	8 inches	<0.85	<1.7	<1.7	<8.5	<8.5	<0.85
SB-31	10/19/09	1	<0.95	<1.9	<1.9	<9.5	<9.5	<0.95
SB-32	10/19/09	1	<0.86	<1.7	<1.7	<8.6	<8.6	<0.86
SB-33	10/19/09	1	<0.84	<1.7	<1.7	<8.4	<8.4	<0.84
SB-34	10/19/09	1	<0.89	<1.8	<1.8	<8.9	<8.9	<0.89
SB-34A	12/03/09	1	<0.83	<1.7	<1.7	<8.3	<8.3	<0.83
		5	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-34A**	12/03/09	1	<4.6	<4.6	<4.6	<4.6	<46	<4.6
		5	<4.2	<4.2	<4.2	<4.2	<42	<4.2
SB-35	10/19/09	1	<0.86	<1.7	<1.7	<8.6	<8.6	<0.86
		5	<0.84	<1.7	<1.7	<8.4	<8.4	<0.84
SB-36	10/20/09	1	<0.84	<1.7	<1.7	<8.4	<8.4	<0.84
SB-37	10/20/09	1	<0.85	<1.7	<1.7	<8.5	<8.5	<0.85
SB-38	10/20/09	1	<0.96	<1.9	<1.9	<9.6	<9.6	<0.96
		5	<0.89	<1.8	<1.8	<8.9	<8.9	<0.89
SB-38A	12/03/09	1	<0.93	<1.9	<1.9	<0.93	<0.93	<0.93
		5	<0.95	<1.9	<1.9	<0.95	<0.95	<0.95
SB-38A**	12/03/09	**1**	**<4.3**	**<4.3**	**<4.3**	**<4.3**	**<43**	**<4.3**
		5	<4.3	<4.3	<4.3	<4.3	<43	<4.3
SB-39	10/20/09	1	<0.81	<1.6	<1.6	<8.1	<8.1	<0.81
SB-40	10/20/09	8 inches	<0.88	<1.8	<1.8	<8.8	<8.8	<0.88
SB-40A	12/03/09	1	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
		5	<1.1	<2.2	<2.2	<11	<11	<1.1
SB-40A**	12/03/09	1	<4.2	<4.2	<4.2	<4.2	<42	<4.2
		5	<4.3	<4.3	<4.3	<4.3	<43	<4.3
SB-41	10/20/09	5 inches	<0.99	<2.0	<2.0	<9.9	<9.9	<0.99
		5	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
SB-42	10/20/09	1	<0.91	<1.8	<1.8	<9.1	<9.1	<0.91
SB-43	10/20/09	1	<0.98	<2.0	<2.0	<9.8	<9.8	<0.98
SB-44	10/23/09	1	<1.1	<2.2	<2.2	<11	<11	<1.1
SB-45	10/23/09	1	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
		15	<1.0	<2.1	<2.1	<10	<10	<1.0
SB-46	10/22/09	1	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-51	10/21/09	1	<0.85	<1.7	<1.7	<8.5	<8.5	<0.85
		5	<1.2	<2.4	<2.4	<12	<12	<1.2
SB-55	10/21/09	1	<0.93	<1.9	<1.9	<9.3	<9.3	<0.93
		5	<1.2	<2.3	<2.3	<12	<12	<1.2
SB-56	10/21/09	1	<0.96	<1.9	<1.9	<9.6	<9.6	<0.96
SB-59	10/21/09	1	<0.80	<1.6	<1.6	<8.0	<8.0	<0.80
		5	<1.0	<2.0	<2.0	<10	<10	<1.0
SB-60	10/22/09	1	<1.0	<2.0	<2.0	<10	<10	<1.0
SB-61	10/21/09	1	<1.1	<2.2	<2.2	<11	<11	<1.1
		5	<1.1	<2.1	<2.1	<11	<11	<1.1
SB-62	10/22/09	1	<0.92	<1.8	<1.8	<9.2	<9.2	<0.92
		15	<0.97	<1.9	<1.9	<9.7	<9.7	<0.97
SB-63	10/22/09	1	<0.98	<2.0	<2.0	<9.8	<9.8	<0.98
		15	<0.68	<1.4	<1.4	<6.8	<6.8	<0.68
SB-64	10/22/09	15	<0.86	<1.7	<1.7	<8.6	<8.6	<0.86
SB-65	10/22/09	15	<0.86	<1.7	<1.7	<8.6	<8.6	<0.86
SB-66	10/22/09	15	<0.92	<1.8	<1.8	<9.2	<9.2	<0.92
SB-67	10/21/09	1	<1.0	<2.1	<2.1	<10	<10	<1.0
SB-68	10/30/09	1	<1.6	<3.1	<3.1	<16	<16	<1.6
		5	<1.0	<2.1	<2.1	<10	<10	<1.0
SB-68A	12/03/09	1	<1.1	<2.1	<2.1	<11	<11	<1.1
		5	<0.91	<1.8	<1.8	<9.1	<9.1	<0.91
SB-68A**	12/03/09	1	<5.7	<5.7	<5.7	<5.7	<57	<5.7
		5	<4.6	<4.6	<4.6	<4.6	<46	<4.6
SB-69	11/05/09	1	<0.98	<2.0	<2.0	<9.8	<9.8	<0.98
		5	<0.93	<1.9	<1.9	<9.3	<9.3	<0.93
ESLs for Residential Soils (Shallow)			**670**	**NA**	**460**	**NA**	**NA**	**22**
ESLs for Residential Soil (Deep)			**670**	**NA**	**460**	**NA**	**NA**	**85**

Notes:

All results are reported in micrograms per kilogram (µg/kg) except for DRO which is reported in miligrams per kilogram (mg/kg).

BOLD values indicate the analyte is detected at or above the method detection limit (MDL).

< = Not detected at or above the indicated MDL.

ft bgs = feet below ground surface.

NA = Not Available.

--- = Not Analyzed.

*=RPD of LCS and or LCSD exceeds the control limits.

**=Split samples to secondary laboratory for data quality assurance.

*** = Used the ESL for TPH (middle distillates).

DRO = Diesel Range Organics.

1,1-DCA = 1,1-Dichloroethane.

1,1-DCE = 1,1-Dichloroethene.

1,2-DCA = 1,2-Dichloroethane.

cis-1,2-DCE = cis-1,2-Dichloroethene.

VC = Vinyl Chloride.

ETBE = Ethyl Tertiary Butyl Ether.

MEK = Methyl Ethyl Ketone.

MTBE = Methyl Tertiary Butyl Ether.

TAME = Tertiary Amyl Methyl Ether.

TBA = Tertiary Butyl Alcohol.

PCE = Tetrachloroethene.

TCE = Trichloroethene.

ESLs (Shallow) = Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table A, Nov-07.

ESLs (Deep) = Table C. Environmental Screening Levels (ESLs), Deep Soils (>3 meters below ground surface).

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Table 3C. Soil Analytical Results for Soil Volatile Organic Compounds, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1,2,4-Trichloro benzene	1,2-Dichloro benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	1-Methyl naphthalene	2,4,5-Tri chloro phenol	2,4,6-Tri chloro phenol	2,4-Dichloro phenol	2,4-Dimethyl phenol	2,4-Dinitro phenol	2,4-Dinitro toluene	2,6-Dinitro toluene	2-Chloro naphthalene	2-Chloro phenol	2-Methyl naphthalene	2-Methyl phenol	2-Nitro aniline	2-Nitro phenol	3,3-Dichloro benzidine	3/4-Methyl phenol	3-Nitro aniline	4,6-Dinitro-2-Methyl phenol	4-Bromo phenyl-phenylether
CPT-03	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
CPT-04	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
CPT-05	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
CPT-06	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
RAD MW-1	10/26/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-03	10/21/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-04	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-05	10/22/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-06	10/22/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-07	10/21/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-08	10/21/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-09	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-10	10/20/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-11	10/21/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-12	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-13	10/20/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-14	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-15	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-17	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-19	10/22/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-20	10/21/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-21	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-22	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-23	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-24	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-25	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-43	10/20/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-44	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-45	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-46	**10/22/09**	**1**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<2.5**	**<0.50**
SB-51	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-55	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-56	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-59	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-60	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-61	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-62	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-63	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-64	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-65	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-66	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-67	10/21/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-68	10/30/09	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<2.5	<2.5	<12	<2.5
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
SB-69	11/05/09	1	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
		5	<0.50	<0.50	<0.50	<0.50	---	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	---	<0.50	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<2.5	<0.50
ESLs for Residential Soils (Shallow)			**1.5**	**1.1**	**7.4**	**0.59**	**NA**	**0.18**	**0.23**	**0.3**	**0.67**	**0.042**	**0.00039**	**NA**	**NA**	**0.012**	**0.25**	**NA**	**NA**	**NA**	**0.0077**	**NA**	**NA**	**NA**	**NA**
ESLs for Residential Soil (Deep)			**1.5**	**1.1**	**7.4**	**0.59**	**NA**	**0.18**	**0.23**	**0.3**	**0.67**	**0.042**	**0.00039**	**NA**	**NA**	**0.012**	**0.25**	**NA**	**NA**	**NA**	**0.0077**	**NA**	**NA**	**NA**	**NA**

ARCADIS

Table 3C. Soil Analytical Results for Soil Volatile Organic Compounds, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	4-Chloro-3-Methyl phenol	4-Chloro aniline	4-Chloro phenyl-phenyl ether	4-Nitro aniline	4-Nitro phenol	Ace naphthene	Ace naphthylene	Aniline	Anthracene	Azobenzene	Benzidine	Benzo(a) anthracene	Benzo (a)pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl Alcohol	bis(2-Chloro ethoxy) Methane	bis(2-Chloro ethyl) Ether	Bis(2-chloro isopropyl) ether	bis(2-Ethyl hexyl) Phthalate	Butyl Benzyl Phthalate	Chrysene
CPT-03	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
CPT-04	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
CPT-05	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
CPT-06	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
RAD MW-1	10/26/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-03	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-04	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-05	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-06	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-07	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-08	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-09	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-10	10/20/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	**0.11 J**
SB-11	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-12	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-13	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-14	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-15	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-17	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-19	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-20	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-21	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-22	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-23	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-24	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-25	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-43	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-44	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-45	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-46	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-51	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-55	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-56	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-59	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-60	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-61	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-62	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-63	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-64	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-65	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-66	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-67	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
SB-68	10/30/09	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<12	<2.5	<2.5	<12	<2.5	<2.5	<2.5	<2.5
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-69	11/05/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
		5	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	---	<0.50	<10	---	---	---	---	---	<2.5	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	---
ESLs for Residential Soils (Shallow)			**NA**	**0.053**	**NA**	**NA**	**NA**	**16**	**13**	**NA**	**2.8**	**NA**	**NA**	**0.38**	**0.038**	**0.38**	**27**	**0.38**	**NA**	**NA**	**NA**	**0.0004**	**0.00015**	**35**	**NA**	**23**
ESLs for Residential Soil (Deep)			**NA**	**0.053**	**NA**	**NA**	**NA**	**16**	**13**	**NA**	**2.8**	**NA**	**NA**	**12**	**1.5**	**15**	**27**	**27**	**NA**	**NA**	**NA**	**0.0004**	**0.00015**	**780**	**NA**	**23**

ARCADIS

Table 3C. Soil Analytical Results for Soil Volatile Organic Compounds, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Dibenz(a,h) anthracene	Dibenzo furan	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexa chloro benzene	Hexa chloro butadiene	Hexa chloro cyclo pentadiene	Hexa chloro ethane	Indeno (1,2,3-cd) Pyrene	Isophorone	Naphthalene	Nitro benzene	N-Nitroso dimethylamine	N-Nitroso-di-n-propylamine	N-Nitroso diphenylamine mg/kg	Penta chloro phenol	Phenanthrene	Phenol	Pyrene	Pyridine
CPT-03	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
CPT-04	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
CPT-05	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
CPT-06	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
RAD MW-1	10/26/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-03	10/21/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-04	10/19/09	8 inches	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-05	10/22/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-06	10/22/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-07	10/21/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-08	10/21/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-09	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-10	10/20/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-11	10/21/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-12	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-13	10/20/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-14	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-15	10/21/09	1	<0.50	<0.50	**0.12 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-17	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-19	10/22/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-20	10/21/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-21	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-22	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-23	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-24	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-25	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-43	10/20/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-44	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-45	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-46	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-51	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-55	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-56	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-59	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-60	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-61	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-62	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-63	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-64	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-65	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-66	10/22/09	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-67	10/21/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
SB-68	10/30/09	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<12	<2.5	<2.5	<2.5	<2.5	<12	<2.5	<2.5	<2.5	<12	<2.5	<2.5	<2.5	<2.5
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50	<0.50
SB-69	11/05/09	1	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
		5	---	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<2.5	<0.50	---	<0.50	---	<2.5	<0.50	<0.50	<0.50	<2.5	---	<0.50	---	<0.50
ESLs for Residential Soils (Shallow)			**0.062**	**NA**	**0.035**	**0.035**	**NA**	**NA**	**40**	**8.9**	**0.34**	**2.2**	**NA**	**3**	**0.62**	**NA**	**1.3**	**NA**	**NA**	**NA**	**NA**	**3**	**11**	**0.076**	**85**	**NA**
ESLs for Residential Soil (Deep)			**2.4**	**NA**	**0.035**	**0.035**	**NA**	**NA**	**60**	**8.9**	**16**	**2.2**	**NA**	**3**	**13**	**NA**	**3.4**	**NA**	**NA**	**NA**	**NA**	**99**	**11**	**0.076**	**85**	**NA**

Notes:

All results are reported in milligrams per kilogram (mg/kg).

BOLD values indicate the analyte is detected at or above the method detection limit (MDL).

< = Not detected at or above the indicated MDL.

ft bgs = feet below ground surface.

J = Analyte was detected at a concentration below the reporting limit and above the laboratory MDL. Reported value is estimated.

ESLs (Shallow) = Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table A, Nov-07.

ESLs (Shallow) = Table C. Environmental Screening Levels (ESLs), Shallow Soils (>3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table C, Nov-07.

NA = Not Available.

--- = Not Analyzed.

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Table 3D. Soil Analytical Results for Poly Aromatic Hydrocarbons, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1-Methyl naphthalene	2-Methyl naphthalene	Ace naphthene	Ace naphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Naphthalene	Phenanthrene	Pyrene
SB-03	10/21/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	**0.0066 J**	**0.0054 J**	**0.0073 J**	**0.0044 J**	**0.0056 J**	**0.0068 J**	<0.020	**0.017 J**	<0.020	**0.0049 J**	<0.020	**0.0062 J**	**0.015 J**
SB-04	10/19/09	8 inches	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-05	10/22/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-06	10/22/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-07	10/21/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	**0.0026 J**	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-08	10/21/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-11	10/21/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	**0.0028 J**	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-19	10/22/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-20	10/21/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-67	10/21/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
SB-69	11/05/09	1	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
		5	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
ESLs for Residential Soils (Shallow)			**NA**	**0.25**	**16**	**13**	**2.8**	**0.38**	**0.038**	**0.38**	**27**	**0.38**	**23**	**0.062**	**40**	**8.9**	**0.62**	**1.3**	**11**	**85**

Notes:
All results are reported in milligrams per kilogram (mg/kg).
BOLD values indicate the analyte is detected at or above the method detection limit (MDL).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.
NA = Not Available.
--- = Not Analyzed.
J = Analyte was detected at a concentration below the reporting limit and above the laboratory MDL. Reported value is estimated.
ESLs (Shallow) = Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table A, Nov-07.

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Table 3E. Soil Analytical Results for PCBs, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Aroclor 1262
CPT-03	10/21/09	1-1.5	<50	<50	<50	<50	<50	<50	<50	<50
		4.5-5	<50	<50	<50	<50	<50	<50	<50	<50
CPT-04	10/21/09	1-1.5	<50	<50	<50	<50	**140**	**90**	<50	<50
		4.5-5	<500	<500	<500	<500	**1,600**	<500	<500	<500
CPT-05	10/21/09	1-1.5	<50	<50	<50	<50	**29 J**	<50	<50	<50
		4.5-5	<50	<50	<50	<50	<50	<50	<50	<50
CPT-06	10/21/09	1-1.5	<50	<50	<50	<50	<50	<50	<50	<50
		4.5-5	<50	<50	<50	<50	<50	<50	<50	<50
RAD MW-1	10/26/09	5	<50	<50	<50	<50	<50	<50	<50	<50
SB-CPT-4A	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
		10	<50	<50	<50	<50	<50	<50	<50	<50
SB-CPT-4A**	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	---
		5	<50	<50	<50	<50	<50	<50	<50	---
		10	<50	<50	<50	<50	<50	<50	<50	---
SB-CPT-4WI	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
		10	<50	<50	<50	<50	<50	<50	<50	<50
SB-CPT-4WI**	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	---
		5	<50	<50	<50	<50	<50	<50	<50	---
		10	<50	<50	<50	<50	<50	<50	<50	---
SB-CPT-4SI	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
		10	<50	<50	<50	<50	<50	<50	<50	<50
SB-CPT-4SI**	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	---
		5	<50	<50	<50	<50	<50	<50	<50	---
		10	<50	<50	<50	<50	<50	<50	<50	---

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Table 3E. Soil Analytical Results for PCBs, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Aroclor 1262
SB-CPT-4NI	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
		10	<50	<50	<50	<50	<50	<50	<50	<50
SB-CPT-4NI**	12/03/09	1	<50	<50	<50	<50	<50	<50	<50	---
		5	<50	<50	<50	<50	<50	<50	<50	---
		10	<50	<50	<50	<50	<50	<50	<50	---
SB-03	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-04	10/19/09	8 inches	<50	<50	<50	<50	<50	<50	<50	<50
SB-05	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-06	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-07	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-08	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-09	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-10	10/20/09	5	<50	<50	<50	<50	<50	<50	<50	<50
SB-11	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-13	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-14	10/23/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-15	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-17	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-19	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-20	10/21/09	1	<50	<50	<50	<50	**34 J**	<50	<50	<50
SB-21	10/23/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-22	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-23	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-24	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
SB-25	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50

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Table 3E. Soil Analytical Results for PCBs, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Aroclor 1262
SB-43	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-44	10/23/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-45	10/23/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-46	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-47	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-48	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
SB-49	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-50	10/20/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-51	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
SB-52	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-53	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-54	10/21/09	1	<50	<50	<50	<50	**50**	<50	<50	<50
SB-55	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
SB-56	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-57	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-58	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-59	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	**20 J**	<50	<50	<50
SB-60	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-61	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50
SB-62	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-63	10/22/09	1	<50	<50	<50	<50	<50	<50	<50	<50
SB-67	10/21/09	1	<50	<50	<50	<50	<50	<50	<50	<50

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Table 3E. Soil Analytical Results for PCBs, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Aroclor 1262
SB-69	11/05/09	1	<50	<50	<50	<50	<50	<50	<50	<50
		5	<50	<50	<50	<50	<50	<50	<50	<50

Notes:

All results are reported in micrograms per kilogram (µg/kg).

BOLD values indicate the analyte is detected at or above the method detection limit (MDL).

< = Not detected at or above the indicated MDL.

--- = Not Analyzed

*=RPD of LCS and or LCSD exceeds the control limits.

**=Split samples to secondary laboratory for data quality assurance.

ft bgs = feet below ground surface

NA = Not Available

J = Analyte was detected at a concentration below the reporting limit and above the laboratory MDL. Reported value is estimated.

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Table 3F. Soil Analytical Results for Pesticides, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1,1,1-Trichloro-2,2-bis (p-Methoxphenyl)-Ethane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Beta-BHC	Camphechlor	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin	Gamme-BHC (Lindane)	Heptachlor Epoxide	Heptachlor
CPT-03	10/21/09	1-1.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		4.5-5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT-04	10/21/09	1-1.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		4.5-5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT-05	10/21/09	1-1.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		4.5-5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CPT-06	10/21/09	1-1.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		4.5-5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
RAD MW-1	10/26/09	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-01	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-02	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	**1.4 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-03	10/21/09	1	<5.0	<5.0	**2.4 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-04	10/19/09	8 inches	**0.88 J**	<5.0	**2.1 J**	**1.9 J**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-05	10/22/09	1	<5.0	<5.0	**62**	**38**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-06	10/22/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-07	10/21/09	1	<5.0	<5.0	**13**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-08	10/21/09	1	<5.0	<5.0	**3.4 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-09	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-10	10/20/09	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-11	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-12	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-13	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-14	10/23/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-15	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-16	10/19/09	8 inches	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-17	10/21/09	1	<5.0	<5.0	**3.1 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-18	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-19	10/22/09	1	<5.0	<5.0	**3.2 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-20	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-21	10/23/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-22	10/22/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-23	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-24	10/20/09	1	<5.0	<5.0	**7.3**	**3.5 J**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-25	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-26	10/19/09	8 inches	<5.0	<5.0	**1.8 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-27	10/19/09	8 inches	<5.0	<5.0	**3.3 J**	**2.6 J**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-28	10/19/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-29	10/19/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-30	10/19/09	8 inches	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-31	10/19/09	1	<5.0	<5.0	**2.0 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-32	10/19/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-33	10/19/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-34	10/19/09	1	<5.0	<5.0	**2.9 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-35	10/19/09	1	<5.0	<5.0	**2.7 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-36	10/20/09	1	<5.0	<5.0	**13**	**6.1**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-37	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-38	10/20/09	1	<5.0	<5.0	**2.2 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-39	10/20/09	1	<5.0	<5.0	**3.2 J**	**2.4 J**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-40	10/20/09	8 inches	<5.0	<5.0	**9.7**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-41	10/20/09	5 inches	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-42	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-43	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-44	10/23/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-45	10/23/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-46	10/22/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
ESLs for Residential Soils (Shallow)			**NA**	**2,400**	**1,700**	**1,700**	**32**	**NA**	**NA**	**NA**	**440**	**NA**	**2.3**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.65**	**NA**	**14**	**13**

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Table 3F. Soil Analytical Results for Pesticides, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1,1,1-Trichloro-2,2-bis (p-Methoxphenyl)-Ethane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Beta-BHC	Camphechlor	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin	Gamme-BHC (Lindane)	Heptachlor Epoxide	Heptachlor
SB-47	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-48	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-49	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-50	10/20/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-51	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-52	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-53	10/21/09	1	<5.0	<5.0	**1.8 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-54	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-55	10/21/09	1	<5.0	<5.0	**34**	**13**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-56	10/21/09	1	<5.0	<5.0	**20**	**6.2**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-57	10/21/09	1	<5.0	<5.0	**5.7**	**2.6 J**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-58	10/21/09	1	<5.0	<5.0	**35**	**14**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-59	10/21/09	1	<5.0	<5.0	**3.5 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-60	10/22/09	1	<5.0	<5.0	**13**	**8.1**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-61	10/21/09	1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-62	10/22/09	1	<5.0	<5.0	**7.4**	**6.8**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-63	10/22/09	1	<5.0	<5.0	**2.5 J**	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
SB-68	10/30/09	1	<5.0	<5.0	**5.2**	**5.1**	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
ESLs for Residential Soils (Shallow)			**NA**	**2,400**	**1,700**	**1,700**	**32**	**NA**	**NA**	**NA**	**440**	**NA**	**2.3**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.65**	**NA**	**14**	**13**

Notes:

All results are reported in micrograms per kilogram (µg/kg).

BOLD values indicate the analyte is detected at or above the method detection limit (MDL).

< = Not detected at or above the indicated MDL.

DDD = dichlorodiphenyldichloroethane.

DDE = dichlorodiphenyldichloroethylene.

DDT = dichlorodiphenyltrichloroethane.

BHC = 1, 2, 3, 4, 5, 6-Hexachlorocyclohexane.

ft bgs = feet below ground surface.

NA = Not Available.

J = Analyte was detected at a concentration below the reporting limit and above the laboratory MDL. Reported value is estimated.

ESLs (Shallow) = Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3 meters below ground surface), Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table A, Nov-07.

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Table 3G. Soil Analytical Results for Herbicides, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Azinphos Methyl	Bolstar	Chlorpyrifos	Coumaphos	Demeton-o/s	Diazinon	Dichlorvos	Disulfoton	Ethoprop	Fensulfothion	Fenthion	Merphos	Methyl Parathion	Mevinphos	Naled	Phorate	Ronnel	Stirophos	Tokuthion	Trichloronate
CPT-03	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
CPT-04	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
CPT-05	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
CPT-06	10/21/09	1-1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		4.5-5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
RAD MW-1	10/26/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-01	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-02	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-03	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-04	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-05	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-06	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-07	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-08	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-09	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-10	10/20/09	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-11	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-12	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-13	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-14	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-15	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-16	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-17	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-18	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-19	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-20	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-21	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-22	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-23	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-24	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-25	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-26	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-27	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-28	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-29	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-30	10/19/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-31	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-32	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-33	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
ESLs for Residential Soils (Shallow)			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

ARCADIS

Table 3G. Soil Analytical Results for Herbicides, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Azinphos Methyl	Bolstar	Chlorpyrifos	Coumaphos	Demeton-o/s	Diazinon	Dichlorvos	Disulfoton	Ethoprop	Fensulfothion	Fenthion	Merphos	Methyl Parathion	Mevinphos	Naled	Phorate	Ronnel	Stirophos	Tokuthion	Trichloronate
SB-34	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-35	10/19/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-36	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-37	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-38	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-39	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-40	10/20/09	8 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-41	10/20/09	5 inches	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-42	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-43	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-44	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-45	10/23/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-46	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-47	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-48	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-49	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-50	10/20/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-51	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-52	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-53	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-54	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-55	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-56	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-57	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-58	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-59	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-60	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-61	10/21/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-62	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-63	10/22/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
SB-68	10/30/09	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
		5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0	<0.50	<0.50	<2.0	<0.50	<0.50
ESLs for Residential Soils (Shallow)			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Notes:
All results are reported in milligrams per kilogram (mg/kg).
BOLD values indicate the analyte is detected at or above the method detection limit (MDL).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface
NA = Not Available
ESLs (Shallow) = Table A. Environmental Screening Levels (ESLs), Shallow Soils (<3 meters below ground surface),
Groundwater is a Current or Potential Source of Drinking Water, CRWQCB-SFBR, Table A, Nov-07.

ARCADIS

Table 3H. Soil Analytical Results for Dioxins and Furans, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Samle ID	Date	Depth (ft bgs)	2,3,7,8 TCDD TEQ	2,3,7,8-TCDD (Dioxin)	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF
RAD MW-1	10/26/09	5	0.013	<0.126	<0.232	<0.233	<0.288	<0.286	1.12 J	5.28 J	<0.0813	<0.112	<0.141	<0.164	<0.176	<0.162	<0.272	<0.309	<0.375	<0.783
SB-01	10/21/09	1	0.132	<0.103	<0.16	<0.127	0.4 J	0.377 J	3.77 J	29.8	<0.111	<0.0931	<0.122	<0.122	<0.133	<0.114	<0.182	0.765 J	<0.139	1.26 J
SB-03	10/21/09	1	0.62	<0.5	<2.5	0.241 J	1.02 J	0.721 J	13.5	119	0.258 J	<2.5	0.288 J	0.379 J	0.283 J	0.346 J	<2.5	3.64 J	<2.5	6.17 J
SB-04	10/19/09	8 inches	17.948	<0.0932	<0.333	0.289 J	1.15 J	0.84 J	17.5	121	17.1 F	32.6	10.7	53.3	28.5	13.7	9.42	85.1	23.8	97.7
SB-05	10/22/09	1	0.322	<0.5	<2.5	<2.5	0.491 J	0.416 J	5.36	37.6	0.167 J	<2.5	0.224 J	0.165 J	0.157 J	0.202 J	0.203 J	0.896 J	<2.5	1.53 J
SB-06	10/22/09	1	1.047	<0.5	0.294 J	0.402 J	1.7 J	0.972 J	29.4	195	<0.5	<2.5	<2.5	0.234 J	0.235 J	0.243 J	<2.5	2.14 J	<2.5	1.34 J
SB-07	10/21/09	1	0.016	<0.5	<2.5	<2.5	<2.5	<2.5	1.08 J	6.86 J	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.289 J	<2.5	0.625 J
SB-08	10/21/09	1	0.001	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	1.82 J	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5
SB-12	10/20/09	1	0.001	<0.114	<0.175	<0.181	<0.244	<0.232	<0.452	1.8 J	<0.0785	<0.129	<0.155	<0.111	<0.119	<0.102	<0.168	<0.136	<0.162	<0.345
SB-13	10/20/09	1	0.037	<0.0941	<0.116	<0.222	<0.292	<0.282	2.69 J	16.6	<0.0723	<0.111	<0.133	<0.0623	<0.0648	<0.0591	<0.089	0.453 J	<0.0663	0.97 J
SB-15	10/21/09	5	0.043	<0.5	<2.5	<2.5	<2.5	<2.5	2.73 J	21.4	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.822 J	<2.5	2.21 J
SB-16	10/19/09	8 inches	10.77	<0.212	<0.384	<0.331	0.959 J	0.612 J	13.9	106	8.33 F	20.3	5.04 J	35.2	18.2	8.7	6.02	50.2	15.8	54
SB-17	10/21/09	1	0.127	<0.5	<2.5	<2.5	0.368 J	0.542 J	0.349 J	2.01 J	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.318 J	<2.5	<2.5	<5
SB-18	10/20/09	1	0.062	<0.16	<0.129	<0.211	<0.288	<0.273	3.6 J	23.8	<0.0643	<0.109	<0.137	<0.099	<0.111	<0.0969	<0.154	1.56 J	<0.143	9.41 J
SB-19	10/22/09	1	0.341	<0.5	<2.5	<2.5	0.422 J	0.42 J	5.72	47.6	0.198 J	<2.5	0.301 J	0.164 J	0.184 J	0.255 J	<2.5	1.31 J	<2.5	4.4 J
SB-20	10/21/09	1	0.359	<0.5	<2.5	<2.5	0.577 J	0.514 J	8.55	60.2	0.201 J	0.267 J	<2.5	0.406 J	0.275 J	0.22 J	<2.5	2.67 J	<2.5	5.01 J
SB-23	10/20/09	1	<ND	<0.134	<0.204	<0.23	<0.316	<0.298	<0.58	<5	<0.106	<0.151	<0.197	<0.141	<0.151	<0.134	<0.205	<0.228	<0.247	<0.555
SB-24	10/20/09	1	0.292	<0.128	<0.178	<0.142	0.672 J	0.427 J	11.8	78.9	<0.163	<0.12	<0.16	<0.202	<0.212	<0.183	<0.294	3.6 J	<0.275	15.2
SB-25	10/20/09	1	0.001	<0.128	<0.173	<0.18	<0.247	<0.233	<0.575	2.59 J	<0.0953	<0.126	<0.176	<0.115	<0.122	<0.104	<0.179	<0.169	<0.199	<0.41
SB-26	10/19/09	8 inches	6.269	<0.234	<0.383	0.47 J	2.43 J	1.15 J	46.4	367	3.96 F	9.75	2.44 J	17.8	8.66	4.8	3.17 J	32.6	8.86	38.1
		5	<ND	<0.143	<0.147	<0.196	<0.274	<0.257	<0.461	<5	<0.0607	<0.0908	<0.116	<0.0975	<0.11	<0.0883	<0.161	<0.148	<0.172	<0.395
SB-27	10/19/09	8 inches	3.246	<0.145	<0.518	0.627 J	3.28 J	1.58 J	62.2	458	1.41	3.08 J	1.22 J	5.65	3.04 J	1.75 J	1.23 J	13.9	2.81 J	15.9
SB-28	10/19/09	1	0.079	<0.18	<0.241	<0.382	<0.544	<0.505	5.61	51.3	<0.158	<0.183	<0.236	<0.134	<0.146	<0.119	<0.196	0.747 J	<0.143	<0.899
		5	0	<0.046	<0.0718	<0.073	<0.103	<0.0961	<0.279	1.14 J	<0.0314	<0.0393	<0.0471	<0.0501	<0.0569	<0.0464	<0.0786	<0.0758	<0.0834	<0.136
SB-29	10/19/09	1	0.016	<0.191	<0.186	<0.275	<0.388	<0.362	1.38 J	8.8 J	<0.132	<0.147	<0.193	<0.177	<0.197	<0.166	<0.283	<0.289	<0.349	<0.55
SB-30	10/19/09	8 inches	1.063	<0.193	<0.189	<0.188	0.495 J	<0.245	7.67	59.8	0.682 J	1.57 J	0.684 J	2.68 J	1.34 J	0.764 J	0.552 J	4.84 J	1.42 J	7.71 J
SB-31	10/19/09	1	0.125	<0.157	<0.161	<0.236	<0.328	<0.308	1.79 J	12.2	0.154 J	0.245 J	<0.131	0.369 J	0.207 J	0.148 J	<0.131	0.774 J	<0.213	1.49 J
SB-32	10/19/09	1	0.007	<0.181	<0.177	<0.204	<0.303	<0.276	0.61 J	3.77 J	<0.131	<0.138	<0.182	<0.12	<0.136	<0.109	<0.178	<0.193	<0.219	<0.473
SB-33	10/19/09	1	0.009	<0.135	<0.145	<0.199	<0.27	<0.257	0.795 J	5.11 J	<0.116	<0.0939	<0.119	<0.127	<0.14	<0.123	<0.208	<0.3	<0.347	<0.616
SB-34	10/19/09	1	0.317	<0.0948	<0.182	<0.0816	0.405 J	0.397 J	2.11 J	14	0.384 J	0.216 J	0.237 J	0.203 J	0.185 J	0.186 J	0.316 J	0.597 J	<0.0917	0.689 J
SB-35	10/19/09	1	0.416	<0.0969	<0.241	<0.145	0.644 J	0.45 J	7.15	51.3	0.301 J	0.156 J	0.306 J	0.181 J	0.192 J	0.243 J	0.21 J	1.06 J	<0.103	1.13 J
		5	0.002	<0.139	<0.115	<0.118	<0.162	<0.153	0.217 J	0.929 J	<0.0415	<0.0492	<0.0626	<0.0458	<0.0501	<0.0433	<0.0656	<0.0627	<0.0717	<0.185
SB-36	10/20/09	1	1.491	<0.0958	0.36 J	0.57 J	2.11 J	1.28 J	25	126	0.497 J	0.28 J	0.623 J	0.475 J	0.394 J	0.441 J	0.453 J	2.4 J	0.158 J	2.01 J
SB-37	10/20/09	1	0.015	<0.126	<0.114	<0.133	<0.188	<0.175	0.95 J	5.58 J	<0.052	<0.12	<0.156	<0.103	<0.116	<0.098	<0.151	0.324 J	<0.0684	0.871 J
SB-38	10/20/09	1	0.168	<0.142	<0.196	<0.154	0.452 J	0.336 J	5.85	37.4	<0.127	<0.102	<0.127	<0.109	<0.123	<0.101	<0.165	1.65 J	0.141 J	5.1 J
		5	0.003	<0.156	<0.121	<0.127	<0.168	<0.162	0.235 J	0.758 J	<0.0409	<0.0554	<0.069	<0.0491	<0.0553	<0.0459	<0.074	<0.0777	<0.088	<0.247
SB-39	10/20/09	1	1.007	<0.0543	<0.25	0.21 J	0.832 J	0.571 J	10.8	74	0.468 J	1.09 J	0.639 J	1.74 J	1.21 J	0.672 J	0.378 J	3.55 J	0.69 J	5.71 J
SB-40	10/20/09	8 inches	59.349	<0.16	<0.201	0.57 J	1.05 J	0.802 J	18.2	113	36.2 F	116	30.8	185	129	53.1	23.3	276	65.7	314
SB-41	10/20/09	5 inches	2.325	<0.103	<0.111	<0.152	<0.299	<0.198	4.06 J	26.3	1.37	4.41 J	1.29 J	7.32	4.68 J	2.1 J	1.02 J	8.6	1.93 J	10.9
		5	<ND	<0.0739	<0.131	<0.22	<0.299	<0.284	<0.509	<5	<0.0518	<0.0754	<0.0932	<0.0669	<0.0726	<0.0657	<0.0994	<0.127	<0.136	<0.35
SB-42	10/20/09	1	0.005	<0.0995	<0.11	<0.225	<0.293	<0.284	0.439 J	1.95 J	<0.0654	<0.0602	<0.0756	<0.107	<0.114	<0.0992	<0.156	<0.102	<0.112	<0.316
SB-43	10/20/09	1	0.318	<0.101	<0.143	<0.118	0.628 J	0.336 J	10.7	100	<0.131	<0.119	<0.141	0.192 J	0.163 J	0.205 J	<0.0874	2.65 J	<0.127	7.35 J
SB-47	10/20/09	1	0.01	<0.0842	<0.132	<0.188	<0.259	<0.245	0.806 J	5.34 J	<0.136	<0.0897	<0.114	<0.0823	<0.0853	<0.0748	<0.118	<0.226	<0.272	<0.323
SB-48	10/20/09	1	0.013	<0.0941	<0.116	<0.146	<0.185	<0.182	1.09 J	6.37 J	<0.0564	<0.0822	<0.116	<0.0853	<0.0923	<0.0818	<0.128	<0.177	<0.216	0.864 J
SB-49	10/20/09	1	0.012	<0.196	<0.294	<0.275	<0.375	<0.355	1.06 J	4.71 J	<0.169	<0.202	<0.294	<0.165	<0.177	<0.154	<0.246	<0.28	<0.346	<0.687
SB-50	10/20/09	1	0.007	<0.125	<0.18	<0.186	<0.255	<0.241	0.649 J	2.78 J	<0.159	<0.124	<0.165	<0.13	<0.135	<0.121	<0.195	<0.207	<0.253	<0.391
SB-51	10/21/09	1	0.005	<0.108	<0.114	<0.184	<0.246	<0.235	0.432 J	2.38 J	<0.0419	<0.0489	<0.0669	<0.0901	<0.0952	<0.0846	<0.133	<0.0932	<0.118	<0.294
SB-52	10/21/09	1	0.001	<0.101	<0.116	<0.152	<0.217	<0.201	<0.528	1.98 J	<0.114	<0.073	<0.099	<0.0694	<0.0723	<0.0658	<0.112	<0.114	<0.133	<0.205
SB-53	10/21/09	1	0.009	<0.0963	<0.0908	<0.14	<0.194	<0.183	0.751 J	5.21 J	<0.0482	<0.0866	<0.112	<0.113	<0.12	<0.109	<0.173	<0.179	<0.22	<0.35
SB-54	10/21/09	1	0.486	<0.5	<2.5	<2.5	<2.5	<2.5	2.26 J	12	0.361 J	0.807 J	0.573 J	0.793 J	0.901 J	0.378 J	<2.5	2 J	<2.5	0.865 J
SB-55	10/21/09	1	0.289	<0.0431	<0.2	<0.0814	0.325 J	0.414 J	1.35 J	7.86 J	0.244 J	0.174 J	0.288 J	0.158 J	0.167 J	0.191 J	0.258 J	0.561 J	<0.0828	0.699 J
SB-56	10/21/09	1	0.025	<0.0468	<0.167	<0.178	<0.238	<0.227	0.531 J	2.64 J	0.189 J	<0.105	<0.141	<0.0925	<0.101	<0.0868	<0.144	<0.195	<0.242	<0.337

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Table 3H. Soil Analytical Results for Dioxins and Furans, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Samle ID	Date	Depth (ft bgs)	2,3,7,8 TCDD TEQ	2,3,7,8-TCDD (Dioxin)	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HpCDD	OCDD	2,3,7,8-TCDF	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDF	2,3,4,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	OCDF
SB-57	10/21/09	1	<ND	<0.102	<0.122	<0.169	<0.217	<0.212	<0.39	<5	<0.0526	<0.0726	<0.0963	<0.117	<0.129	<0.115	<0.169	<0.139	<0.156	<0.213
SB-58	10/21/09	1	**1.374**	<0.5	**0.421 J**	**0.409 J**	**1.49 J**	**1.08 J**	**19.3**	**128**	**0.517 J**	**0.247 J**	**0.527 J**	**0.473 J**	**0.417 J**	**0.596 J**	**<2.5**	**5.06 J**	**0.424 J**	**10.4**
SB-59	10/21/09	5	**0.008**	<0.5	<2.5	<2.5	<2.5	<2.5	**0.698 J**	**3.41 J**	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5
SB-60	10/22/09	1	**0.019**	<0.5	<2.5	<2.5	<2.5	<2.5	**1.34 J**	**8.27 J**	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**0.267 J**	<2.5	<5
SB-61	10/21/09	1	**0.000378**	<0.0951	<0.105	<0.119	<0.159	<0.152	<0.315	**1.26 J**	<0.0354	<0.0487	<0.0632	<0.0432	<0.0455	<0.0411	<0.0651	<0.0678	<0.0804	<0.206
		5	**0.000378**	<0.055	<0.0949	<0.0845	<0.119	<0.111	<0.248	**1.26 J**	<0.0312	<0.0432	<0.0547	<0.0463	<0.0503	<0.0452	<0.0716	<0.0714	<0.0846	<0.175
SB-62	10/22/09	15	**0.121**	<0.5	<2.5	<2.5	**0.356 J**	**0.448 J**	**1.03 J**	**6.98 J**	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	**0.249 J**	**0.293 J**	<2.5	<5
SB-63	10/22/09	15	**0.156**	<0.5	<2.5	<2.5	**0.436 J**	**0.566 J**	**0.726 J**	**3.98 J**	**0.125 J**	<2.5	<2.5	<2.5	<2.5	<2.5	**0.324 J**	**0.273 J**	<2.5	<5

Notes:

All results are reported in parts per trillion (ppt).

BOLD values indicate the analyte is detected at or above the method detection limit (MDL).

< = Not detected at or above the indicated MDL.

ft bgs = feet below ground surface.

NA = Not Available.

J = Analyte concentration is below calibration range.

F = Analyte confirmation on secondary column.

TCDD = 2,3,7,8-Tetrachlorodibenzo-p-dioxin.

TEQ = Toxic Equivalents.

PeCDD = Pentadioxin.

HxCDD = Hexadioxin.

HpCDD = heptadioxin.

OCDD = Octachlorodibenzodioxins.

TCDF = Tetrafuran.

PeCDF = Pentafuran.

HxCDF = Hexafuran.

HpCDF = Hepafuran.

OCDF = Octafuran.

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Table 4A. Groundwater Analytical Results for Metals, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Antimony	Arsenic	Beryllium	Camium	Chromium	Copper	Lead	Mercury	Nickel	Organic Lead	Selenium	Silver	Thallium	Zinc
CPT-01	10/25/09	32-37	<15	**11.8**	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
CPT-02	10/25/09	32-37	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
CPT-03	10/22/09	14-18	<15	**14.5**	<10	<10	<10	<10	<10	<0.500	<10	<300	<15	<5.00	<15	<10
	10/22/09	26-30	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**10.4**
CPT-04	10/22/09	12-16	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	<300	<15	<5.00	<15	**80.5**
	10/22/09	22-26	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**21.4**
CPT-05	10/21/09	15-19	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	<300	<15	<5.00	<15	**26.2**
	10/21/09	23-27	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
CPT-06	10/23/09	14-18	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	<300	<15	<5.00	<15	<10
	10/23/09	37-41	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**15.9**
	10/23/09	67-71	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	**43.4**	<5.00	<15	<10
CPT-06 FD	10/23/09	37-41	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**10.2**
CPT-10	10/25/09	15-20	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	<300	<15	<5.00	<15	**32.3**
	10/25/09	40-47	<15	**13.2**	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**11.7**
CPT-11	10/23/09	13-18	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
	10/23/09	35-40	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-1L	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	**18.6**	<5.00	<15	**12.4**
RAD-MW-1S	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-1U	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	**31.6**	<5.00	<15	**16.4**
RAD-MW-2S	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-3S	11/13/09	NA	<15	**11.7**	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-4S	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-5S	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-5U	11/13/09	NA	<15	<10	<10	<10	**14.1**	<10	<10	<0.500	<10	---	<15	<5.00	<15	<10
RAD-MW-6L	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**43.3**
RAD-MW-6S	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	<15	<5.00	<15	**22**
RAD-MW-6U	11/13/09	NA	<15	<10	<10	<10	<10	<10	<10	<0.500	<10	---	**29.3**	<5.00	<15	**26.6**
ESLs Final Screening Levels			**6**	**50**	**4**	**5**	**50**	**1,300**	**15**	**2**	**100**	**NA**	**50**	**35**	**2**	**5,000**

Notes:
All results are reported in micrograms per liter (µg/l).
BOLD values indicate the analyte is detected at or above the method detection limit (MDL).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.
NA = Not Available.
--- = Not Analyzed.
ESLs = Table F-3. Environmental Screening Levels (ESLs), Drinking Water Screening Levels.

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Table 4B. Groundwater Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	DRO	1,1,1,2-Tetra chloro ethane	1,1,1-Trichloro ethane	1,1,2,2-Tetra chloro ethane	1,1,2-Trichloro ethane	1,1-DCA	1,1-DCE	1,1-Dichloro propene	1,2,3-Trichloro benzene	1,2,3-Trichloro propane	1,2,4-Trichloro benzene	1,2,4-Trimethyl benzene	1,2-Dibromo-3-Chloro propane	1,2-Dichloro benzene	1,2-DCA	1,2-Dichloro propane	1,3,5-Trimethyl benzene	1,3-Dichloro benzene	1,3-Dichloro propane	1,4-Dichloro benzene	2,2-Dichloro propane	2-Butanone	2-Chloro ethyl vinyl ether	2-Chloro toluene	4-Chloro toluene	4-Methyl-2-Pentanone	Acetone	Aceto nitrile
CPT-01	10/25/09	32-37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
CPT-02	10/25/09	32-37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**16**	<10
CPT-03	10/22/09	14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
		26	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
CPT-04	10/22/09	12	**120**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
		22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
CPT-05	10/21/09	15	**290**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	**1.6**	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
		23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
CPT-06	10/23/09	14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
		37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
		67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**14**	<10
CPT-06 (FD)	10/23/09	37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**11**	<10
CPT-10	10/25/09	15-20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**16**	<10
		40-47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
CPT-11	10/23/09	13-18	**270**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
		35-40	**120**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**11**	<10
RAD-MW-1L	11/13/09	NA	**230**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**15**	<10
RAD-MW-1S	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-1U	11/13/09	NA	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-2S	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-3S	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-4S	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-5S	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-5U	11/13/09	NA	**73**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	**22**	<10
RAD-MW-6L	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-6S	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
RAD-MW-6U	11/13/09	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<5.0	<10	<10
ESLs Final Screening Levels			**210**	**1.3**	**200**	**1**	**5**	**5**	**6**	**NA**	**NA**	**NA**	**5**	**NA**	**0.2**	**600**	**0.5**	**5**	**NA**	**600**	**0.5**	**5**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**6,300**	**NA**

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Table 4B. Groundwater Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Acrolein	Acrylo nitrile	Allyl Chloride	Benzene	Bromo benzene	Bromo chloro methane	Bromo dichloro methane	Bromo form	Bromo methane	Carbon Disulfide	Carbon Tetra chloride	Chloro benzene	Chloro ethane	Chloro form	Chloro methane	Chloro prene	cis-1,2 DCE	cis-1,3 Dichloro propene	Dibromo chloro methane	Dibromo methane	Dichloro difluoro methane	Diiso propyl Ether	Ethanol	Ethyl Metha crylate	ETBE	Ethyl benzene	Ethylene Dibromide	Freon 113	Hexa chloro butadiene	Iodo methane
CPT-01	10/25/09	32-37	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
CPT-02	10/25/09	32-37	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
CPT-03	10/22/09	14	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**4.5**	<0.50	<0.50	**7.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	**0.87**	<2.0	<10
		26	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**5**	<0.50	<0.50	**5.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	**1.4**	<2.0	<10
CPT-04	10/22/09	12	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
		22	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**19**	<0.50	<0.50	**9.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	**1.2**	<2.0	<10
CPT-05	10/21/09	15	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
		23	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**1.4**	<0.50	<0.50	**2.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	**1.0**	<2.0	<10
CPT-06	10/23/09	14	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	**0.86**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
		37	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**1.1**	<0.50	<0.50	**1.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
		67	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**1.1**	<0.50	<0.50	**1.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
CPT-06 (FD)	10/23/09	37	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
CPT-10	10/25/09	15-20	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
		40-47	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
CPT-11	10/23/09	13-18	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
		35-40	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-1L	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	**1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-1S	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-1U	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	**1.4**	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.74**	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-2S	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-3S	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	**1.3**	<0.50	<0.50	**2**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	**1.3**	<2.0	<10
RAD-MW-4S	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-5S	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	**0.55**	<1.0	<1.0	**2.6**	<0.50	<0.50	**3.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-5U	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	**2.4**	<1.0	<1.0	<0.50	<0.50	<0.50	**0.84**	<0.50	<0.50	<0.50	<0.50	**1.2**	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-6L	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	**2.8**	**5.2**	<1.0	<1.0	<0.50	<0.50	<0.50	**1.2**	<0.50	<0.50	<0.50	<0.50	**4.9**	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-6S	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	**0.84**	**1.2**	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.4**	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
RAD-MW-6U	11/13/09	NA	<20	<10	<1.0	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<2.0	<10
ESLs Final Screening Levels			**NA**	**NA**	**NA**	**1**	**NA**	**NA**	**100**	**100**	**9.8**	**NA**	**0.5**	**70**	**12**	**70**	**180**	**NA**	**6**	**NA**	**100**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**300**	**0.00005**	**NA**	**0.45**	**NA**

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Table 4B. Groundwater Analytical Results for Diesel Range Organics and Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Isobutyl Alcohol	Isopropyl benzene	Metha crylo nitrile	Methyl Metha crylate	Methyl n-Butyl Ketone	MTBE	Methylene Chloride	Naph thalene	n-Butyl benzene	n-Propyl benzene	o-xylene	p/m Xylene	Para-Isopropyl Toluene	Propio nitrile	sec-Butyl benzene	Styrene	t-1,4-Dichloro-2-Butene	TAME	TBAl	Tert-Butyl benzene	PCE	Tetra hydro furan	Toluene	trans-1,2-DCE	trans-1,3-Dichloro propene	TCE	Trichloro fluoro methane	Vinyl Acetate	VC
CPT-01	10/25/09	32-37	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-02	10/25/09	32-37	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-03	10/22/09	14	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		26	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-04	10/22/09	12	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		22	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-05	10/21/09	15	<10	**0.74**	<10	<5.0	<10	<0.50	<1.0	**1.1**	**2**	**3**	<0.50	<0.50	<0.50	<10	**0.52**	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		23	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-06	10/23/09	14	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		37	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		67	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-06 (FD)	10/23/09	37	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-10	10/25/09	15-20	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		40-47	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
CPT-11	10/23/09	13-18	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		35-40	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-1L	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-1S	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-1U	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-2S	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-3S	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-4S	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-5S	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-5U	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-6L	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-6S	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
RAD-MW-6U	11/13/09	NA	<10	<0.50	<10	<5.0	<10	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<10	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
ESLs Final Screening Levels			**NA**	**NA**	**NA**	**NA**	**NA**	**13**	**5**	**17**	**NA**	**NA**	**1,800**	**1,800**	**NA**	**NA**	**NA**	**100**	**NA**	**NA**	**120**	**NA**	**5**	**NA**	**150**	**10**	**NA**	**5**	**0.15**	**NA**	**0.5**

Notes:
All results are reported in micrograms per liter (µg/l).
BOLD values indicate the analyte is detected at or above the method detection limit (MDL).
< = Not detected at or above the indicated MDL.
FD = Field Duplicate.
ft bgs = feet below ground surface.
NA = Not Available.
--- = Not Analyzed.
DRO = Diesel Range Organics.
1,1-DCA = 1,1-Dichloroethane.
1,1-DCE = 1,1-Dichloroethene.
1,2-DCA = 1,2-Dichloroethane.
cis-1,2-DCE = cis-1,2-Dichloroethene.
ETBE = Ethyl Tertiary Butyl Ether.
MEK = Methyl Ethyl Ketone.
MTBE = Methyl Tertiary Butyl Ether.
TAME = Tertiary Amyl Methyl Ether.
TBA = Tertiary Butyl Alcohol.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
VC = Vinyl Chloride.
ESLs = Table F-3. Environmental Screening Levels (ESLs), Drinking Water Screening Levels.

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Table 4C. Groundwater Analytical Results for Semi Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1,2,4-Trichloro benzene	1,2-Dichloro benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	2,4,5-Trichloro phenol	2,4,6-Trichloro phenol	2,4-Dichloro phenol	2,4-Dimethyl phenol	2,4-Dinitro phenol	2,4-Dinitro toluene	2,6-Dinitro toluene	2-Chloro phenol	2-Methyl phenol	2-Nitro aniline	2-Nitro phenol	3,3-Dichloro benzidine	3/4-Methyl phenol	3-Nitro aniline	4,6-Dinitro-2-Methyl phenol	4-Bromo phenyl-phenyl ether	4-Chloro-3-Methyl phenol	4-Chloro aniline	4-Chloro phenyl-phenyl ether	4-Nitro aniline	4-Nitro phenol	Aniline	Azo benzene	Benzidine	Benzoic Acid
CPT-01	10/25/09	32-37	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
CPT-02	10/25/09	32-37	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
CPT-03	10/22/09	14	<11	<11	<11	<11	<11	<11	<11	<11	<56	<11	<11	<11	<11	<11	<11	<28	<11	<11	<56	<11	<11	<11	<11	<11	<11	<11	<11	<56	<56
		26	<11	<11	<11	<11	<11	<11	<11	<11	<56	<11	<11	<11	<11	<11	<11	<28	<11	<11	<56	<11	<11	<11	<11	<11	<11	<11	<11	<56	<56
CPT-04	10/22/09	12	<12	<12	<12	<12	<12	<12	<12	<12	<59	<12	<12	<12	<12	<12	<12	<29	<12	<12	<59	<12	<12	<12	<12	<12	<12	<12	<12	<59	<59
		22	<14	<14	<14	<14	<14	<14	<14	<14	<71	<14	<14	<14	<14	<14	<14	<36	<14	<14	<71	<14	<14	<14	<14	<14	<14	<14	<14	<71	<71
CPT-05	10/21/09	15	<12	<12	<12	<12	<12	<12	<12	<12	<62	<12	<12	<12	<12	<12	<12	<31	<12	<12	<62	<12	<12	<12	<12	<12	<12	<12	<12	<62	<62
		23	<11	<11	<11	<11	<11	<11	<11	<11	<56	<11	<11	<11	<11	<11	<11	<28	<11	<11	<56	<11	<11	<11	<11	<11	<11	<11	<11	<56	<56
CPT-06	10/23/09	14	<11	<11	<11	<11	<11	<11	<11	<11	<56	<11	<11	<11	<11	<11	<11	<28	<11	<11	<56	<11	<11	<11	<11	<11	<11	<11	<11	<56	<56
		37	<11	<11	<11	<11	<11	<11	<11	<11	<56	<11	<11	<11	<11	<11	<11	<28	<11	<11	<56	<11	<11	<11	<11	<11	<11	<11	<11	<56	<56
		67	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
CPT-06 FD	10/23/09	37	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
CPT-10	10/25/09	15-20	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
		40-47	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
CPT-11	10/23/09	13-18	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
		35-40	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-1L	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-1S	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-1U	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-2S	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-3S	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-4S	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-5S	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-5U	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-6L	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-6S	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
RAD-MW-6U	11/13/09	NA	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<25	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
ESLs Final Screening Levels			**5**	**600**	**210**	**5**	**700**	**0.7**	**21**	**100**	**140**	**0.051**	**NA**	**35**	**28**	**NA**	**100**	**0.029**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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Table 4C. Groundwater Analytical Results for Semi Volatile Organic Compounds, PGE Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Benzyl Alcohol	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether	Bis(2-chloro isopropyl) ether	bis(2-Ethyl hexyl) Phthalate	Butyl Benzyl Phthalate	Dibenzo furan	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Hexa chloro benzene	Hexa chloro butadiene	Hexa chloro cyclo pentadiene	Hexa chloro ethane	Isophorone	Nitro benzene	N-Nitro sodi methylamine	N-Nitroso-di-n-propylamine	N-Nitroso diphenylamine	Penta chloro phenol	Phenol	Pyridine
CPT-01	10/25/09	32-37	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
CPT-02	10/25/09	32-37	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
CPT-03	10/22/09	14	<11	<11	<28	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<28	<11	<11	<28	<11	<11	<11	<11	<11	<11
		26	<11	<11	<28	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<28	<11	<11	<28	<11	<11	<11	<11	<11	<11
CPT-04	10/22/09	12	<12	<12	<29	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<29	<12	<12	<29	<12	<12	<12	<12	<12	<12
		22	<14	<14	<36	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<36	<14	<14	<36	<14	<14	<14	<14	<14	<14
CPT-05	10/21/09	15	<12	<12	<31	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<31	<12	<12	<31	<12	<12	<12	<12	<12	<12
		23	<11	<11	<28	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<28	<11	<11	<28	<11	<11	<11	<11	<11	<11
CPT-06	10/23/09	14	<11	<11	<28	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<28	<11	<11	<28	<11	<11	<11	<11	<11	<11
		37	<11	<11	<28	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<28	<11	<11	<28	<11	<11	<11	<11	<11	<11
		67	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
CPT-06 FD	10/23/09	37	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
CPT-10	10/25/09	15-20	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
		40-47	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
CPT-11	10/23/09	13-18	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
		35-40	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-1L	11/13/09	NA	<10	<10	<25	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-1S	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-1U	11/13/09	NA	<10	<10	<25	<10	16	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-2S	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-3S	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-4S	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-5S	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-5U	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-6L	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-6S	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
RAD-MW-6U	11/13/09	NA	<10	<10	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25	<10	<10	<25	<10	<10	<10	<10	<10	<10
ESLs Final Screening Levels			**NA**	**NA**	**0.032**	**0.014**	**4**	**NA**	**NA**	**5,600**	**70,000**	**NA**	**NA**	**1**	**0.045**	**NA**	**0.9**	**NA**	**NA**	**NA**	**NA**	**NA**	**1**	**4,200**	**NA**

Notes:
All results are reported in micrograms per liter (µg/l).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.
FD = Field Duplicate.
NA = Not Available.
ESLs = Table F-3. Environmental Screening Levels (ESLs), Drinking Water Screening Levels.

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Table 4D. Groundwater Analytical Results for Poly Aromatic Hydrocarbons, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1-Methyl naphthalene	2-Methyl naphthalene	Ace naphthene	Ace naphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) Pyrene	Naphthalene	Phenanthrene	Pyrene
CPT-01	10/25/09	32-37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CPT-02	10/25/09	32-37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CPT-03	10/22/09	14	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
		26	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CPT-04	10/22/09	12	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
		22	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
CPT-05	10/21/09	15	**0.54**	**0.68**	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	**2.2**	<0.29	<0.29
		23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
CPT-06	10/23/09	14	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
		37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
		67	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CPT-06FD	10/23/09	37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CPT-10	10/25/09	15-20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
		40-47	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
CPT-11	10/23/09	13-18	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
		35-40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-1L	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-1S	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-1U	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-2S	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-3S	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-4S	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-5S	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-5U	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	**0.26**	<0.20	<0.20
RAD-MW-6L	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-6S	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
RAD-MW-6U	11/13/09	NA	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
ESLs Final Screening Levels			**NA**	**28**	**420**	**210**	**2100**	**0.029**	**0.2**	**0.029**	**210**	**0.029**	**4.8**	**0.0048**	**280**	**280**	**0.048**	**17**	**210**	**420**

Notes:
All results are reported in micrograms per liter (µg/l).
BOLD values indicate the analyte is detected at or above the method detection limit (MDL).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.
FD = Field Duplicate.
NA = Not Available.
ESLs = Table F-3. Environmental Screening Levels (ESLs), Drinking Water Screening Levels.

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Table 4E. Groundwater Analytical Results for Herbicides, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	Azinphos Methyl	Bolstar	Chlorpyrifos	Coumaphos	Demeton-o/s	Diazinon	Dichlorvos	Disulfoton	Ethoprop	Fensulfothion	Fenthion	Merphos	Methyl Parathion	Mevinphos	Naled	Phorate	Ronnel	Stirophos	Tokuthion	Trichloronate
CPT-03	10/22/09	14-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.040	<0.0050	<0.0050	<0.020	<0.0050	<0.0050
CPT-04	10/22/09	12-16	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.044	<0.0056	<0.0056	<0.022	<0.0056	<0.0056
CPT-05	10/21/09	15-19	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.013	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.053	<0.0066	<0.0066	<0.027	<0.0066	<0.0066
CPT-06	10/23/09	14-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.040	<0.0050	<0.0050	<0.020	<0.0050	<0.0050
CPT-10	10/25/09	15-20	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.040	<0.0050	<0.0050	<0.020	<0.0050	<0.0050
CPT-11	10/23/09	13-18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.040	<0.0050	<0.0050	<0.020	<0.0050	<0.0050

Notes:
All results are reported in miligrams per liter (mg/l).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.

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Table 4F. Groundwater Analytical Results for Pesticides, PG&E Radback, 6000 Bridgehead Road, Oakley, California.

Sample ID	Date	Depth (ft bgs)	1,1,1-Trichloro-2,2-bis (p-Methoxphenyl)-Ethane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Beta-BHC	Camphechlor	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin	Gamme-BHC (Lindane)	Heptachlor Epoxide	Heptachlor
CPT-03	10/22/09	14-18	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<2.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CPT-04	10/22/09	12-16	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<2.2	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
CPT-05	10/21/09	15-19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<2.7	<1.3	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
CPT-06	10/23/09	14-18	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<2.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CPT-10	10/25/09	15-20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<2.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
CPT-11	10/23/09	13-18	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<2.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
ESLs Final Screening Levels			**NA**	**0.15**	**0.1**	**0.1**	**0.002**	**NA**	**NA**	**NA**	**0.1**	**NA**	**0.0022**	**NA**	**NA**	**NA**	**NA**	**NA**	**2**	**NA**	**0.01**	**0.01**

Notes:
All results are reported in micrograms per liter (µg/l).
< = Not detected at or above the indicated MDL.
ft bgs = feet below ground surface.
NA = Not Available.
DDD = dichlorodiphenyldichloroethane.
DDE = dichlorodiphenyldichloroethylene.
DDT = dichlorodiphenyltrichloroethane.
BHC = 1, 2, 3, 4, 5, 6-Hexachlorocyclohexane.
ESLs = Table F-3. Environmental Screening Levels (ESLs), Drinking Water Screening Levels.

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Table 5. Groundwater Gauging Results, PG&&E Radback, 6000 Bridgehead Road, Oakley, California.

Monitoring Well ID	Northinga	Easting[a]	Total Depth (ft btoc)	Top of Screen (ft btoc)	Bottom of Screen (ft btoc)	Top of Casing Elevation (ft)[b]	Water Level (ft BTOC) 11/10/2009	Groundwater Elevation (ft)[b] 11/10/2009	Water Level (ft BTOC) 11/12/2009	Groundwater Elevation (ft)[b] 11/12/2009	Water Level (ft BTOC) 11/13/2009	Groundwater Elevation (ft)[b] 11/13/2009	Water Level (ft BTOC) 11/19/2009	Groundwater Elevation (ft)[b] 11/19/2009	Water Level (ft BTOC) 11/23/2009	Groundwater Elevation (ft)[b] 11/23/2009
Surficial Aquifer																
MW-1S	2192984	6201673	15	5	15	14.65	9.51	5.14	--	--	--	--	9.34	5.31	9.37	5.28
MW-2S	2192950	6202219	18	8	18	21.60	16.38	5.22	16.04	5.56	--	--	16.40	5.20	16.43	5.17
MW-3S	2192920	6202773	18	8	18	20.76	15.59	5.17	--	--	--	--	15.63	5.13	15.66	5.10
MW-4S	2192676	6201955	15	5	15	18.90	13.32	5.58	--	--	--	--	13.34	5.56	13.34	5.56
MW-5S	2192644	6202758	18	8	18	22.77	17.37	5.40	--	--	--	--	17.37	5.40	17.40	5.37
MW-6S	2192479	6202409	25	5	25	24.32	19.03	5.29	18.63	5.69	--	--	18.68	5.64	18.71	5.61
PZ-17	2191042	6202693	16	11	16	24.04	--	--	17.79	6.25	--	--	17.77	6.27	17.78	6.26
LF-13	2193902	6202602	21.5	5	20	10.97	--	--	7.30	3.67	--	--	7.31	3.66	7.35	3.62
LF-34	2193163	6203981	15.8	4	14	14.29	--	--	--	--	--	--	10.35	3.94	10.4	3.89
LF-35	2193012	6204073	19	5	14.5	15.64	--	--	-	--	--	--	--	--	--	--
MW-76	2194723	6201844	10	5	10	6.30	--	--	3.41	2.89	--	--	3.44	2.86	3.51	2.79
Upper Aquifer																
MW-1U	2192984	6201699	77	72	77	14.91	9.32	5.59	--	--	--	--	9.54	5.37	9.60	5.31
MW-5U	2192645	6202751	67	60	65	22.80	17.37	5.43	--	--	--	--	17.44	5.36	17.44	5.36
MW-6U	2192479	6202403	80	71.5	76.5	24.72	18.98	5.74	--	--	--	--	19.08	5.64	19.12	5.60
LF-14	2193902	6202600	45	35	44.5	10.85	--	--	6.88	3.97	--	--	6.96	3.89	6.99	3.86
MW-31	2192741	6204223	36.5	20	30	14.67	--	--	8.76	5.91	--	--	8.8	5.87	8.8	5.87
MW-59	2191041	6202718	63	41	62	24.69	--	--	--	--	18.36	-9.04	18.37	6.32	18.4	6.29
MW-61	2194233	6201466	61.5	38	58	14.68	--	--	11.43	3.25	--	--	11.32	3.36	11.39	3.29
Lower Aquifer																
MW-1L	2192984	6201687	140	100	105	14.76	9.32	5.44	--	--	--	--	9.39	5.37	9.40	5.36
MW-6L	2192479	6202395	105	101	105	22.74	18.70	4.04	19.03	3.71	--	--	19.07	3.67	19.09	3.65
MW-30	2192746	6204200	122	100	115	13.12	--	--	9.21	3.91	--	--	9.24	3.88	9.3	3.82
MW-32	2192751	6204225	91.5	70	90	14.71	--	--	--	--	--	--	8.69	6.02	8.74	5.97
MW-55	2194229	6201474	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-63	2194737	6201432	112	90	110	9.74	--	--	--	--	--	--	--	--	6.7	3.04
MW-60	2191042	6202731	87	65	85	23.81	--	--	--	--	--	--	18.72	5.09	18.77	5.04
LF-08	2193902	6202290	115	73	87.5	11.56	--	--	7.90	3.66	--	--	7.92	3.64	7.95	3.61
LF-09	2193902	6202279	116	94.5	110.5	11.84	--	--	8.00	3.84	--	--	8.06	3.78	8.1	3.74

Notes:
a. North American Datum 83.
b. National Geodetic Vertical Datum 1929
ft - feet.
BTOC - below top of casing.
-- Not measured/not applicable.

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Table 6. Estimated Aquifer Parameters, PG&&E Radback, 6000 Bridgehead Road, Oakley, California.

Well ID	T	b	K[a]	K[b]	K[c]	$K_{geomean}$
	ft^2/sec	ft	ft/day	ft/day	ft/day	ft/day
Surficial Aquifer						
MW-1S	6.04E-04	8.07	6.47	5.17	5.82	
MW-2S	1.49E-04	4.59	2.80	2.08	2.44	
MW-3S	1.25E-03	4.63	23.4	48.6	36.0	8.13
MW-4S	1.16E-03	3.97	25.16	16.4	20.8	
MW-5S	6.56E-04	2.69	21.07	33.5	27.3	
MW-6S	1.25E-04	8.97	1.21	0.79	1.00	
Upper Aquifer						
MW-1U	5.19E-03	5	90	104	97	
MW-5U	1.30E-02	5	224	271	247	227
MW-6U	2.69E-02	5	465	508	486	
Lower Aquifer						
MW-1L	2.53E-04	5	4.4	3.80	4.1	18.2
MW-6L	4.29E-03	4.5	82.3	78.9	80.6	
Total Aquifer	Geomean of Surficial, Upper, and Lower Aquifer Hydraulic Conductivity					23.3

Notes:
a. Hydraulic conductivity calculated by Cooper-Jacob Method. Aqtesolv output presented in Appendix G.
b. Hydraulic conductivity calculated by the specific capacity method.
c. Average of hydraulic conductivity calculated by Cooper-Jacob and specific capacity methods.
ft^2/sec = feet squared per second.
ft/day = feet per day.
T = transmissivity.
b = thickness of aquifer.

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Table 7. Hydrologic Data for Oakley, California, PG&&E Radback, 6000 Bridgehead Road, Oakley, California.

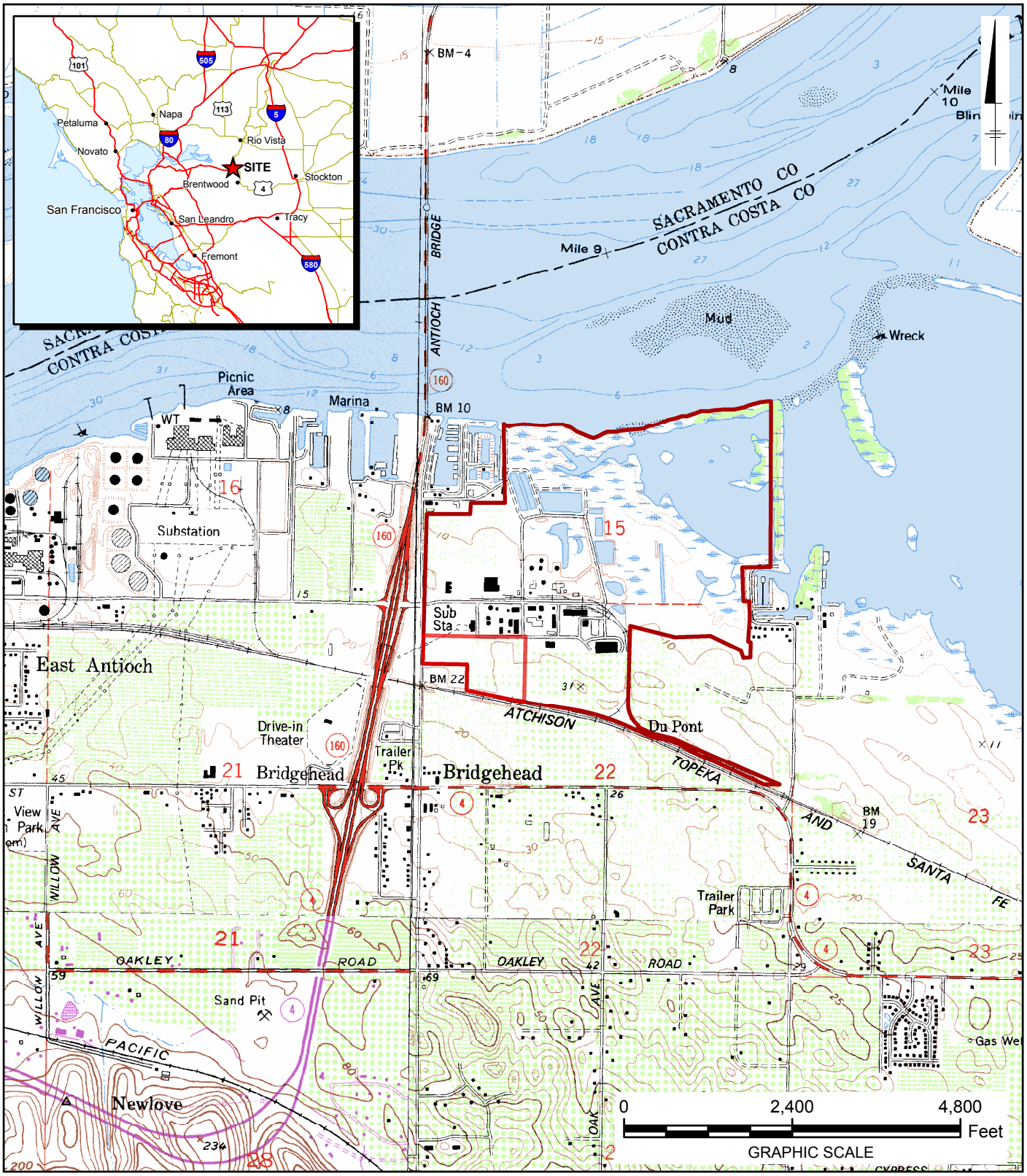
	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Precipitation[1]	2.7	2.5	2.2	0.7	0.5	0.1	0.03	0.03	0.2	0.8	1.7	1.9	13.3
Evapotranspiration Grape Vines[2]	0.9	2.0	2.9	3.2	5.9	7.5	7.5	6.3	4.1	2.4	0.8	1.3	44.8
Evapotranspiration Eucalyptus Trees[3]	1.5	2.1	2.8	3.5	4.2	5.1	5.8	5.8	4.4	3.1	2.0	1.5	41.8
Evapotranspiration Idle Land[2]	0.9	0.9	0.8	0.3	0.4	0.4	0.1	0.3	0.3	0.8	0.7	1.1	6.9

Notes:

[1] Average values obtained from National Oceanographic and Atmospheric Administration (NOAA) for Antioch Pump Plant #3, approximately 1.5 miles south of the Site, for the period between 1971 and 2000.

[2] Typical Evaportranspiration (EVT) values obtained from Irrigation Training and Research Center (ITRC) for Zone 14, which includes Oakley, CA and the Site, for 1997 considered to be a typical year.

[3] Estimated irrigation required to maintain healthy mature eucalyptus trees in California southern inland valleys (Haver, 2009).



LEGEND:

RADBACK PARCEL BOUNDARY

DuPONT FACILITY BOUNDARY

NOTES:

1. BASE MAP USGS 7.5 MIN. QUAD. PROVIDED BY CALIFORNIA SPATIAL INFORMATION LIBRARY.
2. ANTIOCH NORTH DATED 1978 AND ANTIOCH SOUTH DATED 1953 REV. 1980.

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SITE LOCATION MAP

ARCADIS

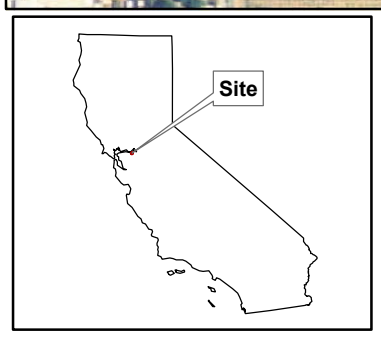
FIGURE 1

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
Q:\PGE\Oakley\MXD\SiteVicinity.mxd

CITY: San Francisco DIV/GROUP: 85 DB: LD: PIC: PM: TM: TR:
Project #:RC000746.0002.00009
O:\PGE\Oakley\MXD\Fig 2 SiteMap_WithSampleLocations.mxd - 1/14/2010 @ 9:55:48 AM

NOTE:

MW-30, MW-31, MW-32, MW-55, MW-59, MW-60, MW-61, MW-63, MW-76, PZ-17, LF-08, LF-09,LF-13, LF-14, LF-34 AND LF-35 WELL LOCATIONS ARE APPROXIMATE.



LEGEND:

- SURFICIAL AQUIFER WELL
- UPPER AQUIFER WELL
- LOWER AQUIFER WELL
- CPT LOCATION
- SOIL BORING LOCATION
- CROSS-SECTION LINE
- PERMEABLE REACTIVE BARRIER (PRB)
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD AREA
- DuPONT FACILITY BOUNDARY
- RADBACK PARCEL BOUNDARY

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

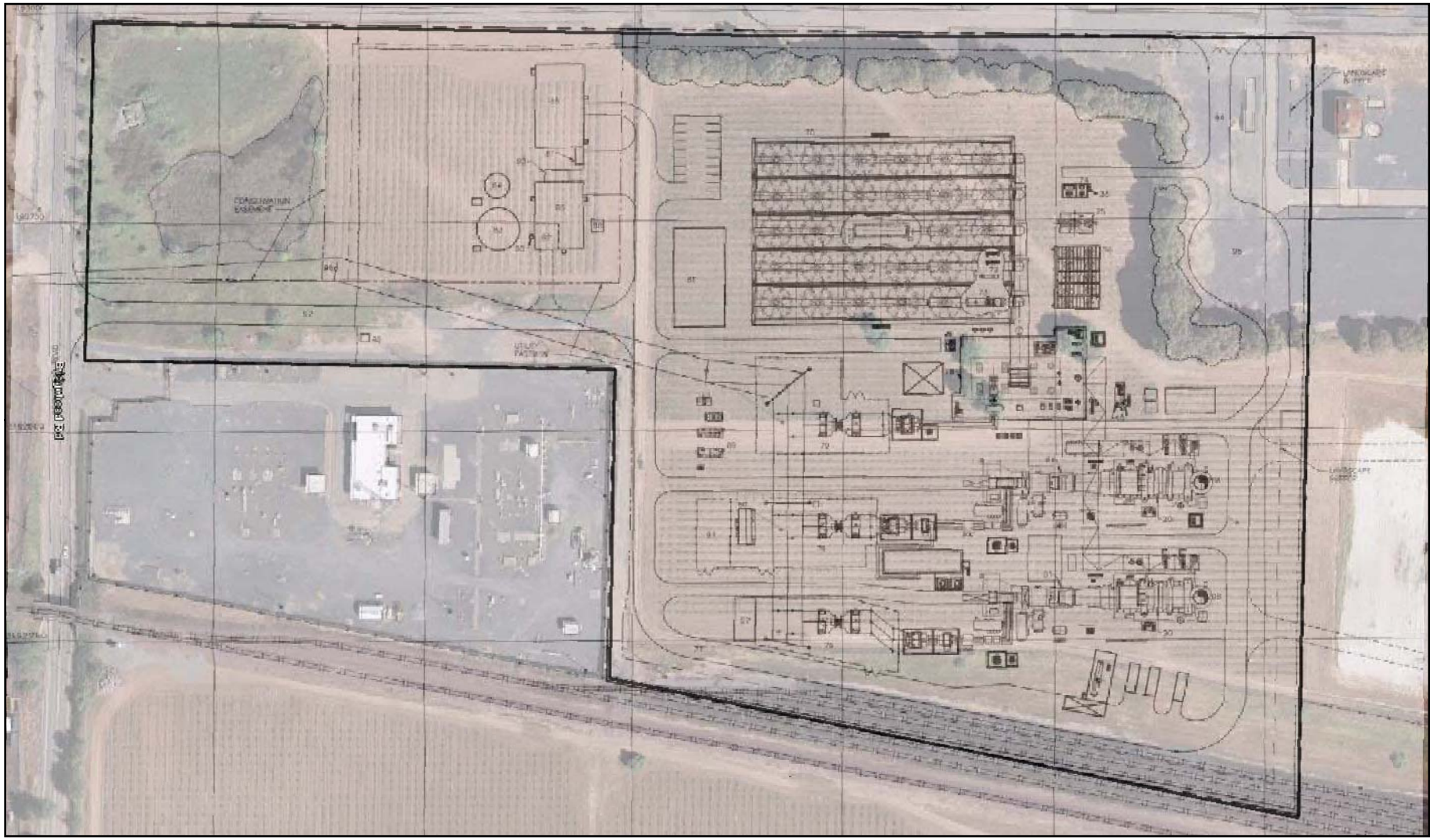
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SITE MAP WITH SAMPLE LOCATIONS AND CROSS-SECTION LINE

ARCADIS

FIGURE
2

CITY: San Francisco DIV/GROUP: 85 DB: ME LD: PIC: PM: TM: TR:
Project #RC000746.0002.0009
Q:\PGE\Oakley\MXD\Fig 3 SiteRedevelopmentPlan.mxd - 1/14/2010 @ 9:01:33 AM



LEGEND:

RADBACK PARCEL BOUNDARY

0 180 360 Feet

GRAPHIC SCALE

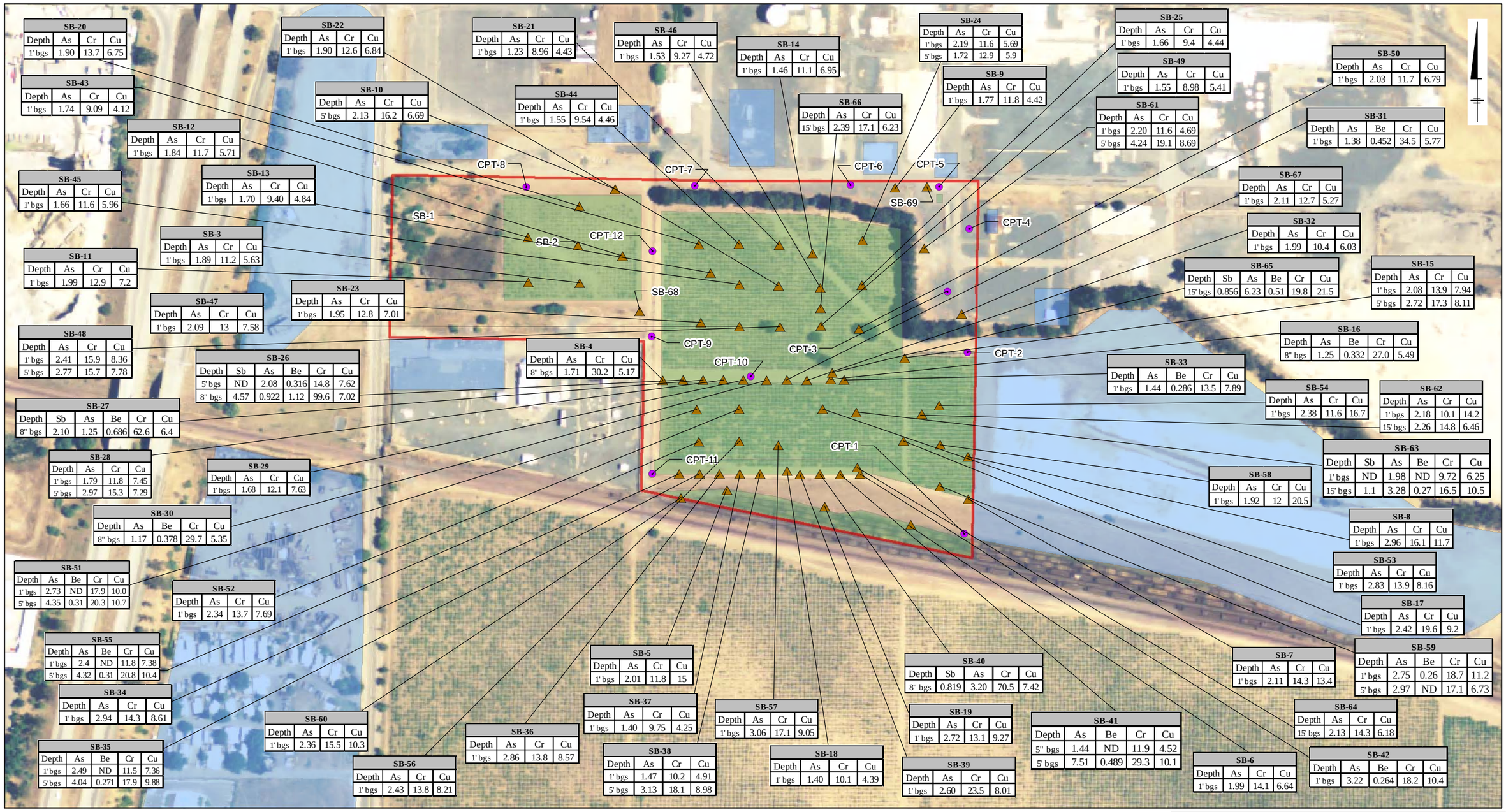
PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SITE REDEVELOPMENT PLAN

ARCADIS

FIGURE
3



SB-20			
Depth	As	Cr	Cu
1' bgs	1.90	13.7	6.75

SB-43			
Depth	As	Cr	Cu
1' bgs	1.74	9.09	4.12

SB-12			
Depth	As	Cr	Cu
1' bgs	1.84	11.7	5.71

SB-45			
Depth	As	Cr	Cu
1' bgs	1.66	11.6	5.96

SB-11			
Depth	As	Cr	Cu
1' bgs	1.99	12.9	7.2

SB-48			
Depth	As	Cr	Cu
1' bgs	2.41	15.9	8.36
5' bgs	2.77	15.7	7.78

SB-27					
Depth	Sb	As	Be	Cr	Cu
8" bgs	2.10	1.25	0.686	62.6	6.4

SB-28			
Depth	As	Cr	Cu
1' bgs	1.79	11.8	7.45
5' bgs	2.97	15.3	7.29

SB-30				
Depth	As	Be	Cr	Cu
8" bgs	1.17	0.378	29.7	5.35

SB-51				
Depth	As	Be	Cr	Cu
1' bgs	2.73	ND	17.9	10.0
5' bgs	4.35	0.31	20.3	10.7

SB-55				
Depth	As	Be	Cr	Cu
1' bgs	2.4	ND	11.8	7.38
5' bgs	4.32	0.31	20.8	10.4

SB-34			
Depth	As	Cr	Cu
1' bgs	2.94	14.3	8.61

SB-35				
Depth	As	Be	Cr	Cu
1' bgs	2.49	ND	11.5	7.36
5' bgs	4.04	0.271	17.9	9.88

SB-22			
Depth	As	Cr	Cu
1' bgs	1.90	12.6	6.84

SB-10			
Depth	As	Cr	Cu
5' bgs	2.13	16.2	6.69

SB-13			
Depth	As	Cr	Cu
1' bgs	1.70	9.40	4.84

SB-3			
Depth	As	Cr	Cu
1' bgs	1.89	11.2	5.63

SB-47			
Depth	As	Cr	Cu
1' bgs	2.09	13	7.58

SB-26					
Depth	Sb	As	Be	Cr	Cu
5' bgs	ND	2.08	0.316	14.8	7.62
8" bgs	4.57	0.922	1.12	99.6	7.02

SB-29			
Depth	As	Cr	Cu
1' bgs	1.68	12.1	7.63

SB-52			
Depth	As	Cr	Cu
1' bgs	2.34	13.7	7.69

SB-60			
Depth	As	Cr	Cu
1' bgs	2.36	15.5	10.3

SB-56			
Depth	As	Cr	Cu
1' bgs	2.43	13.8	8.21

SB-21			
Depth	As	Cr	Cu
1' bgs	1.23	8.96	4.43

SB-44			
Depth	As	Cr	Cu
1' bgs	1.55	9.54	4.46

SB-46			
Depth	As	Cr	Cu
1' bgs	1.53	9.27	4.72

SB-14			
Depth	As	Cr	Cu
1' bgs	1.46	11.1	6.95

SB-66			
Depth	As	Cr	Cu
15' bgs	2.39	17.1	6.23

SB-23			
Depth	As	Cr	Cu
1' bgs	1.95	12.8	7.01

SB-4			
Depth	As	Cr	Cu
8" bgs	1.71	30.2	5.17

SB-36			
Depth	As	Cr	Cu
1' bgs	2.86	13.8	8.57

SB-5			
Depth	As	Cr	Cu
1' bgs	2.01	11.8	15

SB-37			
Depth	As	Cr	Cu
1' bgs	1.40	9.75	4.25

SB-38			
Depth	As	Cr	Cu
1' bgs	1.47	10.2	4.91
5' bgs	3.13	18.1	8.98

SB-57			
Depth	As	Cr	Cu
1' bgs	3.06	17.1	9.05

SB-18			
Depth	As	Cr	Cu
1' bgs	1.40	10.1	4.39

SB-24			
Depth	As	Cr	Cu
1' bgs	2.19	11.6	5.69
5' bgs	1.72	12.9	5.9

SB-9			
Depth	As	Cr	Cu
1' bgs	1.77	11.8	4.42

SB-40				
Depth	Sb	As	Cr	Cu
8" bgs	0.819	3.20	70.5	7.42

SB-19			
Depth	As	Cr	Cu
1' bgs	2.72	13.1	9.27

SB-39			
Depth	As	Cr	Cu
1' bgs	2.60	23.5	8.01

SB-25			
Depth	As	Cr	Cu
1' bgs	1.66	9.4	4.44

SB-49			
Depth	As	Cr	Cu
1' bgs	1.55	8.98	5.41

SB-61			
Depth	As	Cr	Cu
1' bgs	2.20	11.6	4.69
5' bgs	4.24	19.1	8.69

SB-41				
Depth	As	Be	Cr	Cu
5" bgs	1.44	ND	11.9	4.52
5' bgs	7.51	0.489	29.3	10.1

SB-6			
Depth	As	Cr	Cu
1' bgs	1.99	14.1	6.64

SB-50			
Depth	As	Cr	Cu
1' bgs	2.03	11.7	6.79

SB-31				
Depth	As	Be	Cr	Cu
1' bgs	1.38	0.452	34.5	5.77

SB-67			
Depth	As	Cr	Cu
1' bgs	2.11	12.7	5.27

SB-32			
Depth	As	Cr	Cu
1' bgs	1.99	10.4	6.03

SB-65					
Depth	Sb	As	Be	Cr	Cu
15' bgs	0.856	6.23	0.51	19.8	21.5

SB-15			
Depth	As	Cr	Cu
1' bgs	2.08	13.9	7.94
5' bgs	2.72	17.3	8.11

SB-16				
Depth	As	Be	Cr	Cu
8" bgs	1.25	0.332	27.0	5.49

SB-33				
Depth	As	Be	Cr	Cu
1' bgs	1.44	0.286	13.5	7.89

SB-54			
Depth	As	Cr	Cu
1' bgs	2.38	11.6	16.7

SB-62			
Depth	As	Cr	Cu
1' bgs	2.18	10.1	14.2
15' bgs	2.26	14.8	6.46

SB-63					
Depth	Sb	As	Be	Cr	Cu
1' bgs	ND	1.98	ND	9.72	6.25
15' bgs	1.1	3.28	0.27	16.5	10.5

SB-58			
Depth	As	Cr	Cu
1' bgs	1.92	12	20.5

SB-8			
Depth	As	Cr	Cu
1' bgs	2.96	16.1	11.7

SB-53			
Depth	As	Cr	Cu
1' bgs	2.83	13.9	8.16

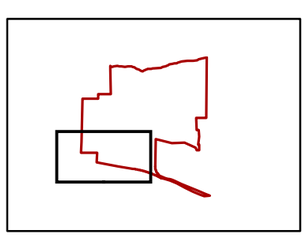
SB-17			
Depth	As	Cr	Cu
1' bgs	2.42	19.6	9.2

SB-7			
Depth	As	Cr	Cu
1' bgs	2.11	14.3	13.4

SB-59				
Depth	As	Be	Cr	Cu
1' bgs	2.75	0.26	18.7	11.2
5' bgs	2.97	ND	17.1	6.73

SB-64			
Depth	As	Cr	Cu
15' bgs	2.13	14.3	6.18

SB-42				
Depth	As	Be	Cr	Cu
1' bgs	3.22	0.264	18.2	10.4



LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SOIL ANALYTICAL RESULTS - METALS (ANTIMONY, ARSENIC, BERYLLIUM, CHROMIUM, AND COPPER)

ARCADIS

FIGURE **4A**

CITY: DIV/GROUP: DB: LD: PIC: PM: TM: TR:
Project (Project #)
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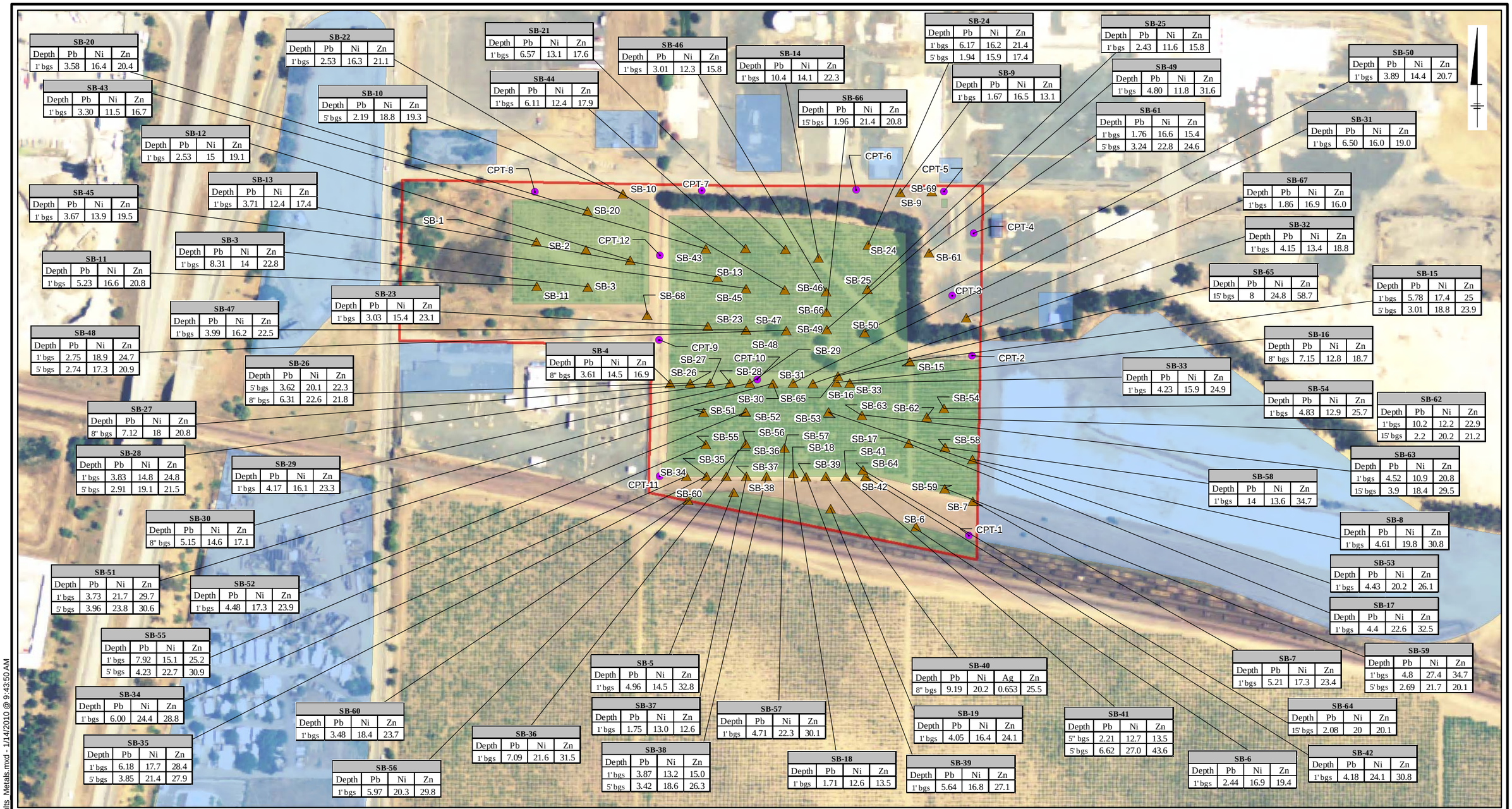


LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

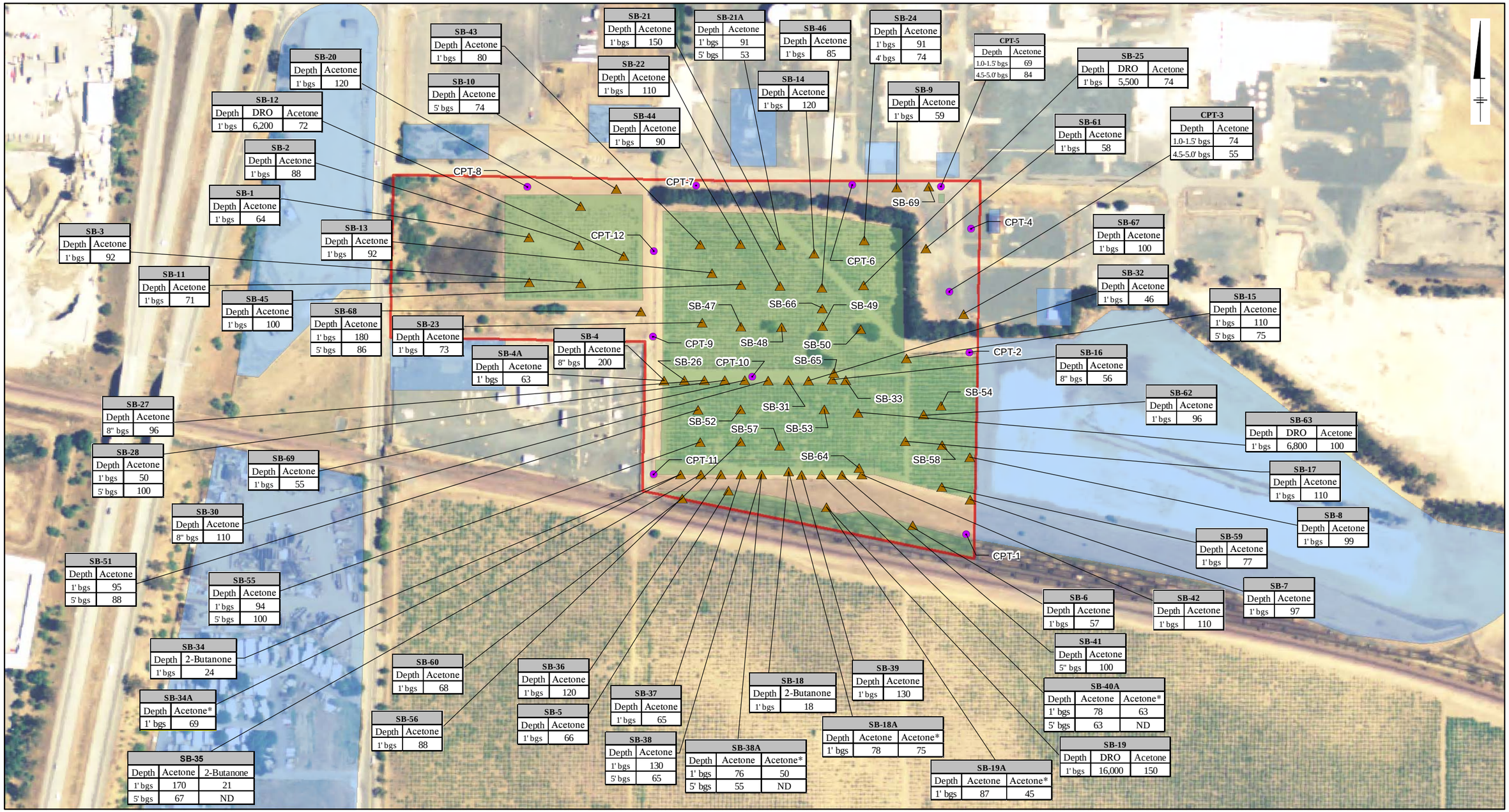
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

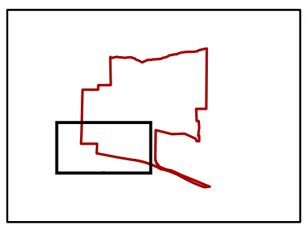
SOIL ANALYTICAL RESULTS - METALS (LEAD, NICKEL, ZINC, AND SILVER)

ARCADIS

FIGURE **4B**

CITY: San Francisco DIV/GROUP: 85 DB: LD: PIC: PM: TM: TR:
Project #:RC000746.0002.00009
Q:\PGE\Oakley\MXD\Fig 4B_SoilAnalyticalResults_Metals.mxd - 1/14/2010 @ 9:43:50 AM





LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER KILOGRAM (µg/kg).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

ENVIRONMENTAL REMEDIATION DUE DILIGENCE

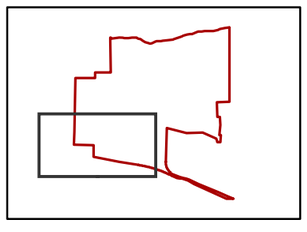
SOIL ANALYTICAL RESULTS - TPHs AND VOCs

ARCADIS

FIGURE **4C**

CITY: DIV/GROUP: DB: LD: PIC: PM: TM: TR:
Project (Project #)
Q:\PGE\Oakley\MXD\Fig 4C SoilAnalyticalResults_TPHsVOCs.mxd - 1/14/2010 @ 9:04:27 AM

SB-3										
Depth	phenanthrene	fluoranthene	Pyrene	Benzo (a) Anthracene	chrysene	benzo (k) fluoranthene	benzo (b) fluoranthene	benzo (a) pyrene	benzo (g,h,i) perylene	indeno 1 2 3-cd pyrene
1' bgs	6.2	17	15	6.6	6.8	5.6	7.3	5.4	4.4	4.9



LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER KILOGRAM (µg/kg).
3. RESULTS NOT DETECTED ARE NO SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SOIL ANALYTICAL RESULTS - SVOCs AND PAHs

ARCADIS

FIGURE
4D

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
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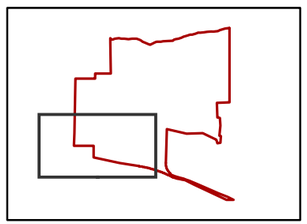


LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER KILOGRAM (µg/kg).
3. RESULTS NOT DETECTED ARE NO SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

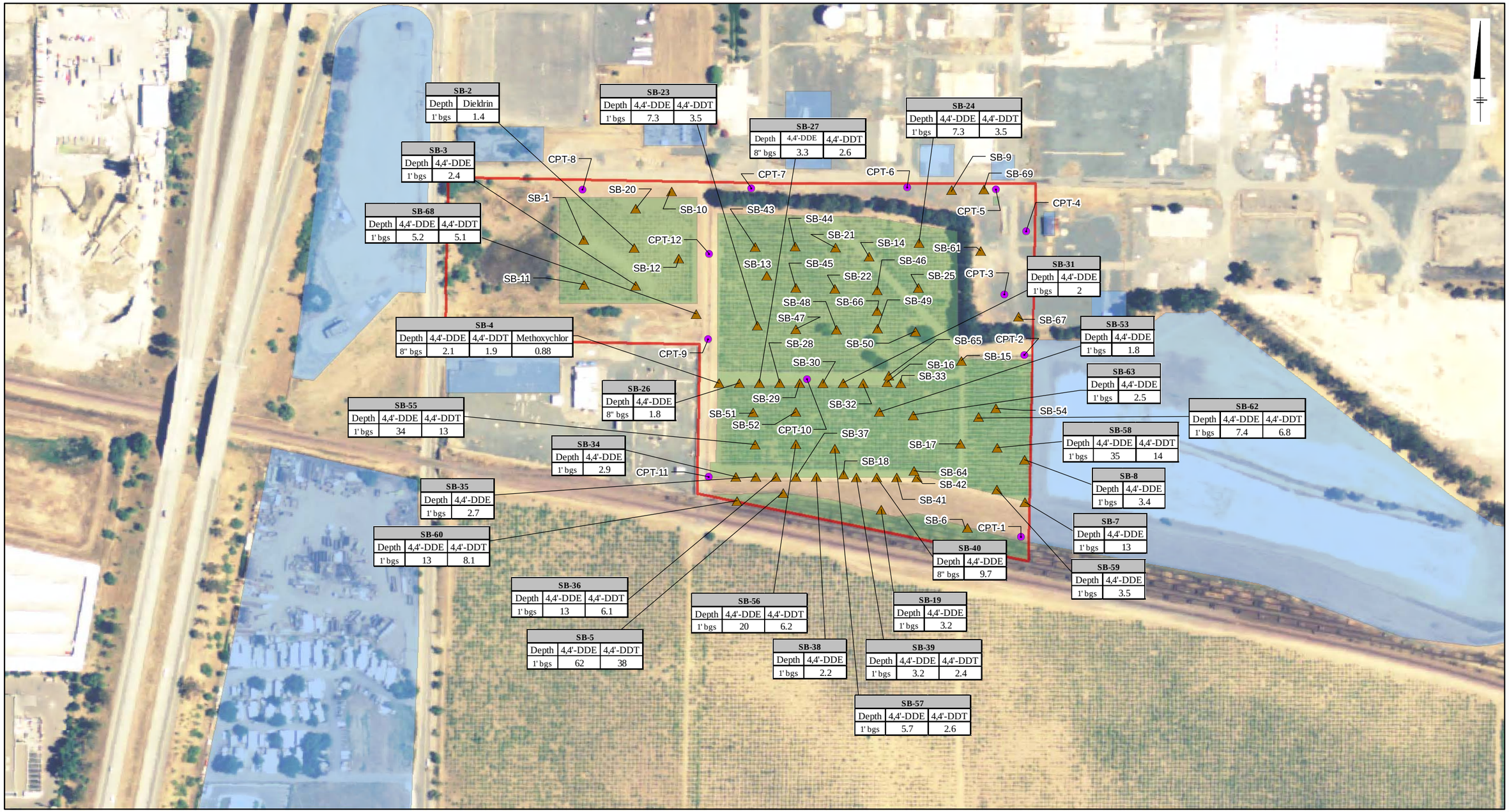
PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

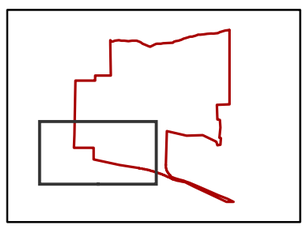
SOIL ANALYTICAL RESULTS - PCBs

ARCADIS

FIGURE
4E

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
Q:\PGE\Oakley\MXD\Fig 4E SoilAnalyticalResults_PCBs.mxd - 1/14/2010 @ 9:46:24 AM





LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER KILOGRAM (µg/kg).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SOIL ANALYTICAL RESULTS - PESTICIDES AND HERBICIDES

ARCADIS

FIGURE
4F

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
Q:\PGE\Oakley\MXD\Fig 4F SoilAnalyticalResults_PesticidesHerbicides.mxd - 1/14/2010 @ 9:47:15 AM

LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN PARTS PER TRILLION (ppt).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT

ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SOIL ANALYTICAL RESULTS - DIOXIN

ARCADIS

FIGURE **4G**

CITY: DIV/GROUP: DB: LD: PIC: PM: TM: TR:
Project (Project #)
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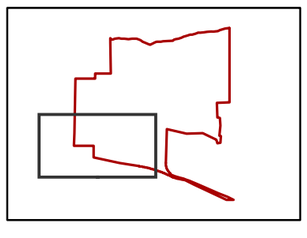

LEGEND:

- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL) FOR PCB (AROCHLOR 1248), 220 µg/kg (MICROGRAMS PER KILOGRAM).
2. ONLY RESULTS WITH ESL EXCEEDENCES ARE SHOWN.
3. bgs = BELOW GROUND SURFACE.
4. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SOIL ANALYTICAL RESULTS ESL EXCEEDENCES

ARCADIS

FIGURE
4H

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
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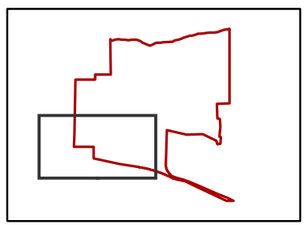


LEGEND:

- MONITORING WELL LOCATION
- CPT LOCATION
- SOIL BORING LOCATION
- * DUPLICATE
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD AREA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER (mg/l).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

GROUNDWATER ANALYTICAL RESULTS - METALS

ARCADIS

FIGURE
5A

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
Q:\PGE\Oakley\MXD\Fig 5A GroundwaterAnalyticalResults_Metals.mxd - 1/14/2010 @ 9:49:57 AM

CPT-5

Depth	DRO	n-butylbenzene	n-butylbenzene	Isopropylbenzene	Naphthalene	n-propylbenzene	1,2,4-trimethylbenzene	Sec-butylbenzene	Carbon Tetrachloride	Chloroform	Freon 113
15-19' bgs	290	2.0	3.0	0.740	1.1	3.0	1.6	0.52	ND	ND	ND
23-27' bgs	ND	ND	ND	ND	ND	ND	ND	ND	1.4	2.3	1.0

CPT-6

Depth	Acetone	Carbon Tetrachloride	Chloroform
14-18' bgs	ND	ND	0.860
37-41' bgs	ND	1.10	1.60
67-71' bgs	11.0	ND	ND
67-71' bgs*	14.0	1.10	1.70

RAD-MW-3S

Carbon Tetrachloride	Chloroform	Freon 113
1.3	2.0	1.3

CPT-4

Depth	DRO	Carbon Tetrachloride	Chloroform	1,1,2-trichloro-1,2,2-trifluoroethane	Freon 113
12-16' bgs	120.0	ND	ND	1.20	ND
22-26' bgs	ND	19.0	9.10	ND	1.2

RAD-MW-1L

DRO	Acetone	Chloroform
230	15	1.0

RAD-MW-1U

DRO	Bromoform	Dibromochloro methane
190	1.4	0.74

CPT-3

Depth	Carbon Tetrachloride	Chloroform	1,1,2-trichloro-1,2,2-trifluoroethane	Freon 113
14-18' bgs	4.50	7.30	0.870	0.87
26-30' bgs	5.00	5.70	1.40	1.40

RAD-MW-5S

Bromoform	Carbon Tetrachloride	Chloroform
0.55	2.6	3.7

CPT-10

Depth	Acetone
40-47' bgs	ND
15-20' bgs	16.0

RAD-MW-5U

DRO	Acetone	Bromoform	Chloroform	Dibromochloro methane
73	22	2.4	0.84	1.2

CPT-11

Depth	DRO	Acetone
13-18' bgs	270	ND
35-40' bgs	120	11.0

CPT-2

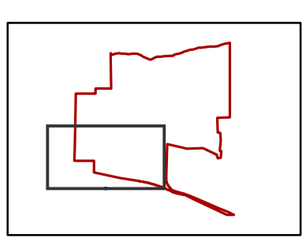
Depth	Acetone
32-37' bgs	16.00

RAD-MW-6L

Bromodichloro methane	Bromoform	Chloroform	Dibromochloro methane
2.8	5.2	1.2	4.9

RAD-MW-6S

Bromodichloro methane	Bromoform	Dibromochloro methane
0.84	1.2	1.4



LEGEND:

- MONITORING WELL LOCATION
- CPT LOCATION
- SOIL BORING LOCATION
- * DUPLICATE
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD AREA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/l).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

GROUNDWATER ANALYTICAL RESULTS - TPHs and VOCs

ARCADIS

FIGURE **5B**

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
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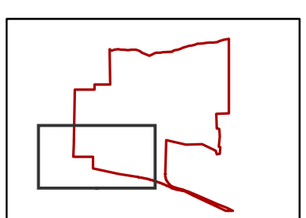


LEGEND:

- MONITORING WELL LOCATION
- CPT LOCATION
- SOIL BORING LOCATION
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD AERA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL).
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/l).
3. RESULTS NOT DETECTED ARE NOT SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

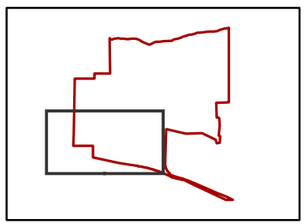
PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

GROUNDWATER ANALYTICAL RESULTS - SVOCs AND PAHs

ARCADIS

FIGURE
5C

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
Q:\PGE\Oakley\MXD\Fig 5C GroundwaterAnalyticalResults_SVOCs_PAHs.mxd - 1/14/2010 @ 9:51:57 AM



LEGEND:

- MONITORING WELL LOCATION
- CPT LOCATION
- SOIL BORING LOCATION
- * DUPLICATE
- GROUNDWATER AREA OF CONCERN
- PLANTED VINEYARD AREA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY

NOTES:

1. CONCENTRATIONS SCREENED AGAINST ENVIRONMENTAL SCREENING LEVEL (ESL) FOR DRO: 210 µg/l AND FOR CARBON TETRACHLORIDE: 0.5 µg/l.
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L).
3. ONLY RESULTS WITH ESL EXCEEDENCES ARE SHOWN.
4. bgs = BELOW GROUND SURFACE.
5. SAMPLES WERE TAKEN IN OCTOBER 2009.

0 240 480 Feet

GRAPHIC SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

GROUNDWATER ANALYTICAL RESULTS ESL EXCEEDENCES

ARCADIS

FIGURE **5D**

CITY: San Francisco DIV/GROUP: 85 DB:ME LD: PIC: PM: TM: TR:
Project #:RC746.0002.0009
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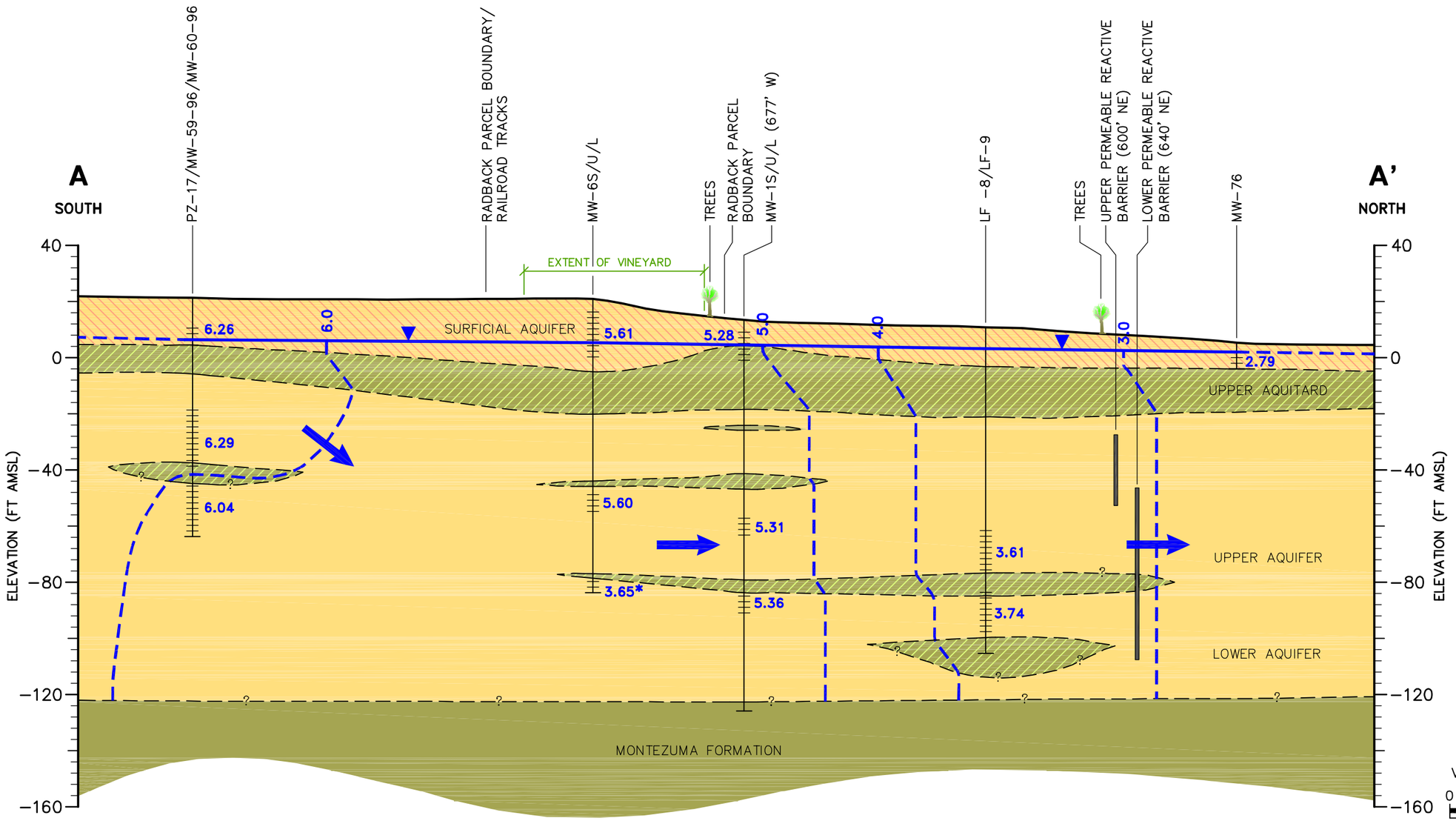


LEGEND:

- MW-4D — WELL OR BORING ID
- GROUND SURFACE
- GROUNDWATER TABLE
- LITHOLOGIC CONTACT (DASHED WHERE INFERRED)
- SCREEN
- BOTTOM OF BORING
- INTERBEDDED SILT AND SAND
- SILT AND CLAY
- SAND/SAND AND GRAVEL
- GROUNDWATER POTENTIOMETRIC CONTOUR
- 5.31 — GROUNDWATER POTENTIOMETRIC ELEVATION (NOVEMBER 23, 2009)
- AMSL — ABOVE MEAN SEA LEVEL (NATIONAL GEODETIC DATUM, 1929)
- DIRECTION OF GROUNDWATER GRADIENT

NOTE:

* INDICATES DATA NOT USED FOR CONTOURING

VERTICAL EXAGGERATION = 10X

0 — 40' — 80'
VERTICAL SCALE

0 — 400' — 800'
HORIZONTAL SCALE

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

HYDROGEOLOGIC CROSS-SECTION A - A'

ARCADIS

FIGURE
6

CITY: SYRACUSE, N.Y. DIV/GROUP: ENVCAD-141 DB:R.ALLEN LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\RC0007460\001\00003\DWG\RC0007V01.dwg LAYOUT: 6 SAVED: 1/14/2010 1:13 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/14/2010 1:14 PM BY: ALLEN, ROYCE
XREFS: IMAGES: PROJECTNAME: ----
RC0007XLB

CITY:San Francisco DIV/GROUP: 85 DB: ME LD: PIC: PM: TM: TR:
Project #: RC000746.00002.0009
O:\PGE\Oakley\MXD\Fig 7A SurficialAquiferGWContourMap.mxd - 1/14/2010 @ 9:14:30 AM

NOTES:

1. MW-30, MW-31, MW-32, MW-55, MW-59, MW-60, MW-61, MW-63, MW-76, PZ-17, LF-08, LF-09,LF-13, LF-14, LF-34 AND LF-35 WELL LOCATIONS ARE APPROXIMATE.

2. GROUNDWATER ELEVATIONS REFERENCE TO NATIONAL GEODETIC VERTICAL DATUM 1929.

LEGEND:

- SURFICIAL AQUIFER WELL
- UPPER AQUIFER WELL
- LOWER AQUIFER WELL
- PERMEABLE REACTIVE BARRIER (PRB)
- DIRECTION OF GROUNDWATER GRADIENT
- PLANTED VINEYARD AREA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY
- SURFICIAL AQUIFER GROUNDWATER CONTOUR
- 5.37 GROUNDWATER ELEVATION (FEET) (NOVEMBER 23, 2009)

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

SURFICIAL AQUIFER GROUNDWATER CONTOUR MAP

ARCADIS

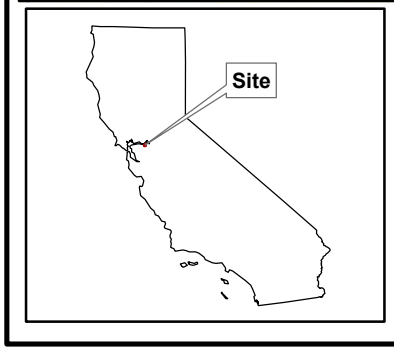
FIGURE
7A

CITY:San Francisco DIV/GROUP: 85 DB: ME LD: PIC: PM: TM: TR:
Project #: RC000746.00002.0009
O:\PGE\Oakley\MXD\Fig 7B UpperAquiferGWContourMap.mxd - 1/14/2010 @ 9:15:37 AM

NOTES:

1. MW-30, MW-31, MW-32, MW-55, MW-59, MW-60, MW-61, MW-63, MW-76, PZ-17, LF-08, LF-09,LF-13, LF-14, LF-34 AND LF-35 WELL LOCATIONS ARE APPROXIMATE.

2. GROUNDWATER ELEVATIONS REFERENCE TO NATIONAL GEODETIC VERTICAL DATUM 1929.



LEGEND:

- SURFICIAL AQUIFER WELL
- UPPER AQUIFER WELL
- LOWER AQUIFER WELL
- PERMEABLE REACTIVE BARRIER (PRB)
- DIRECTION OF GROUNDWATER GRADIENT
- PLANTED VINEYARD AREA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY
- UPPER AQUIFER GROUNDWATER CONTOUR
- 5.31 GROUNDWATER ELEVATION (FEET) (NOVEMBER 23, 2009)

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

UPPER AQUIFER GROUNDWATER POTENTIOMETRIC CONTOUR MAP

ARCADIS

FIGURE
7B

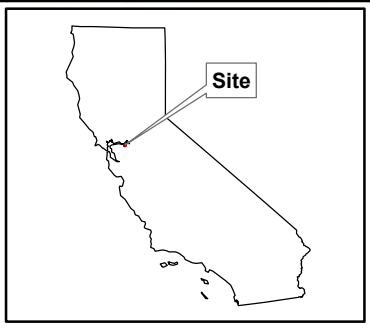
CITY:San Francisco DIV/GROUP: 85 DB: ME LD: PIC: PM: TM: TR:
Project #: RC000746.00002.0009
O:\PGE\Oakley\MXD\Fig 7C LowerAquiferGWContourMap.mxd - 1/14/2010 @ 9:16:37 AM

NOTES:

1. MW-30, MW-31, MW-32, MW-55, MW-59, MW-60, MW-61, MW-63, MW-76, PZ-17, LF-08, LF-09,LF-13, LF-14, LF-34 AND LF-35 WELL LOCATIONS ARE APPROXIMATE.

2. GROUNDWATER ELEVATIONS REFERENCE TO NATIONAL GEODETIC VERTICAL DATUM 1929.

* DATA NOT USED FOR CONTOURING.



LEGEND:

- SURFICIAL AQUIFER WELL
- UPPER AQUIFER WELL
- LOWER AQUIFER WELL
- PERMEABLE REACTIVE BARRIER (PRB)
- DIRECTION OF GROUNDWATER GRADIENT
- PLANTED VINEYARD AREA
- RADBACK PARCEL BOUNDARY
- DuPONT FACILITY BOUNDARY
- LOWER AQUIFER GROUNDWATER CONTOUR (DASHED WHEN INFERRED)
- 5.36 GROUNDWATER ELEVATION (FEET) (NOVEMBER 23, 2009)

PACIFIC GAS & ELECTRIC CO.
RADBACK OAKLEY POWER GENERATION PROJECT
ENVIRONMENTAL REMEDIATION DUE DILIGENCE

LOWER AQUIFER GROUNDWATER POTENTIOMETRIC CONTOUR MAP

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FIGURE
7C

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Appendix A

Boring Logs

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SOIL BORING LOG

Date Drilled:	10/27/09	**Total Depth:**	140 feet bgs	**ID:**	**RAD MW-1L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Dave/Ben/Conrad	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	KB/AV	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–5	Hand Auger		SM		brown, medium to fine grained silty sand			
5–7					brown (7.5 YR 4/4) fine grained silty sand			
7–20	Hollow Stem Auger							
20–21		100%			saturated, high dilatory iron stained, fine silts, some clay, muscovite xtals (7.5 YR 4/4), silty			
21–22			ML		drier, dry to moist, more clay iron staining, clay-silt, smaller muscovite crystals, same colors			

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: Laboratory sample collected at 5 ft bgs, 10/26/2009 at 1130

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SOIL BORING LOG

Date Drilled:	10/27/09	**Total Depth:**	140 feet bgs	**ID:**	**RAD MW-1L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Dave/Ben/Conrad	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	KB/AV	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
25–50	Hollow Stem Auger	100%	SP		fine to very fine grained sand, saturated iron stained muscovite crystals with diameter of 1 to 1.5 mm max, about a 1" thick lense of clay with trace of silt		Grout	25–50
38–40			CL		silty clay, moist with bands of iron staining, 6" of siltier clay also moist with iron staining, clay (w/silt) is greenish-brown color (2.5YR 5/4)			

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: Laboratory sample collected at 5 ft bgs, 10/26/2009 at 1130

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Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/27/09	**Total Depth:**	140 feet bgs	**ID:**	**RAD MW-1L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Dave/Ben/Conrad	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	KB/AV	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
50–64	Hollow Stem Auger							50–64
65–66		100%	SW		well-sorted poorly graded SAND, medium to coarse grained w/gravel clasts w/diameter up to 1cm, highly saturated w/high dilatancy, faint brown color (2.5YR 4/3)			65–66
67–75								67–75

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: Laboratory sample collected at 5 ft bgs, 10/26/2009 at 1130

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SOIL BORING LOG

Date Drilled:	10/27/09	**Total Depth:**	140 feet bgs	**ID:**	**RAD MW-1L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Dave/Ben/Conrad	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	KB/AV	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
75	Hollow Stem Auger							75
76								76
77								77
78								78
79								79
80		100%	SW		gravelly sand, subangular to subrounded clasts, 8mm diameter, trace silt coarsen downward muscovite			80
81								81
82		100%						82
83		100%			similar to above, less gravel, less coarse sand, coarsening downward			83
84								84
85		100%			SAA but color change (5Y3/2)			85
86		100%			medium to coarse grained SAND, and w/fewer gravel clasts			86
87								87
88		100%			gravel up to 1cm in diameter			88
89		100%			coarse grained sand w/few gravel size clasts, small mica			89
90								90
91		100%	SP		coarse-grained sand w/gravel sized clasts			91
92		100%	SW		coarsely grades down from sand to gravelly sand			92
93								93
94			GC		CLAYEY GRAVEL, bluish gray in color (GLEY14/SG)		Seal	94
95		100%	CL		bluish gray color (GLEY 14/SG)			95
96		100%	SC / GC		sand and gravel clasts w/clay matrix, CLAYEY SAND; CLAY w/gravel, at 96.5 ft dry compact clay no gravel			96
97		100%	GC		CLAY			97
98			SP		gray colored fine to medium-grained SAND (GLEY2 4/108)			98
99		100%	SW		brown SAND, fine-grained, w/iron staining			99
100					medium grading to coarse SAND w/gravel			100

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: Laboratory sample collected at 5 ft bgs, 10/26/2009 at 1130

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Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/27/09	**Total Depth:**	140 feet bgs	**ID:**	**RAD MW-1L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Dave/Ben/Conrad	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	KB/AV	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
100–101	Hollow Stem Auger	100%	SP		coarse grained SAND w/gravel			100–101
101–103							Screen	101–103
103–105								103–105
105–107		100%	SP		medium to coarse grained SAND moist			105–107
107–108		100%						107–108
108–109		100%			Same as above but grayish brown (10YR 5/2)			108–109
109–111		100%	SM		SILTY SAND, fine to medium grained, w/some gravel, angular to subangular, <1cm			109–111
111–115								111–115
115–117		100%	SM		silty fine-grained SAND, dark bluish gray (GLEY2 4/10B), w/gravel, subangular to subrounded, <1cm			115–117
117–119							Sand	117–119
119–121		100%	SM		silty, fine to medium grained SAND, poorly sorted, w/trace of gravel <0.5cm			119–121
121–125								121–125

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Samples Collected: Laboratory sample collected at 5 ft bgs, 10/26/2009 at 1130

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SOIL BORING LOG

Date Drilled:	10/27/09	**Total Depth:**	140 feet bgs	**ID:**	**RAD MW-1L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Dave/Ben/Conrad	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	KB/AV	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
125–126	Hollow Stem Auger	100%	SM		fine to medium grained SAND, grayish brown (10YR 5/2), silty			125–126
127–129								127–129
130–131		100%	SM		silty medium grained SAND, grayish brown (10YR 5/2)			130–131
132–134								132–134
135–136		100%	SM		fine to medium grained SAND, clay, (GLEY 5/5B) and (10YR 5/2), dry, hard			135–136
137–138								137–138
139–140		100%	SM		brown (10YR 4/3) CLAY, hard			139–140

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Samples Collected: Laboratory sample collected at 5 ft bgs, 10/26/2009 at 1130

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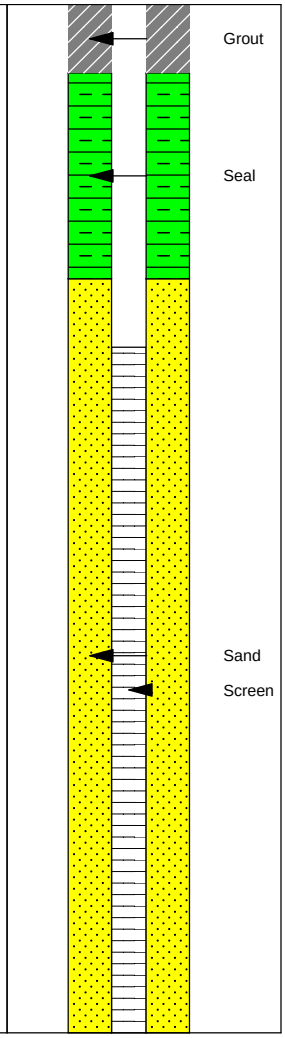
SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	15 feet bgs	**ID:**	**RAD MW-1S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Lithologic Description
0–5	Hand Auger		SM	brown (7.5YR 4/4) silty fine-grained sand, very soft, moist
5–6	Hollow Stem Auger	100%	SM	brown (7/5YR 4/4), silty fine-grained sand w/trace gravel, angular, <5cm, dry, very soft
6–7			SM	SAA w/no gravel
7–8		100%	SM	saturated at 6.5, SAA but saturated
8–9		100%	SM	SAA
9–10			ML	dark yellowish brown (10YR 4/4) clayey silt and smoe fine-grained sand, soft, moist, low plasticity
10–11		67%		No recovery
11–12			ML	dark yellowish brown (10YR 4/4) clayey silt and some fine-grained sand, very stiff, saturated, trace iron staining
12–13		100%	ML	SAA but dry, medium stiff
13–14		100%	ML	SAA
14–15			CL	yellowish brown (10YR 5/4) silty clay, hard, dry, non-plastic, trace iron staining

Hydrostratigraphy



Monitoring Well Construction Detail

Depth (feet bgs)

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

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SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD MW-1U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad, David, Beno	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–5	Hand Auger		SM		brown (7.5YR 4/4), silty fine-grained sand, very soft, moist			0–5
5–10	Hollow Stem Auger							5–10
10–12	Hollow Stem Auger	75%	SM SM		No recovery dark yellowish brown (10YR 4/4) silt and sand fine-grained, very soft, moist, low plasticity SAA, soft			10–12
12–15	Hollow Stem Auger							12–15
15–16	Hollow Stem Auger	100%	CL		light olive brown (2.5Y 5/3) w/little silt and trace coarse grained sand, very stiff, moist, medium plasticity and little iron staining. Small saturated zone @ 15.5 ft bgs			15–16
16–20	Hollow Stem Auger							16–20
20–21		100%	CL		light olive brown (2.5Y 5/3), clay and silt w/little fine-grained sand and iron staining, moist, soft			20–21
21–25								21–25

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

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SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD MW-1U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad, David, Beno	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
25–26	Hollow Stem Auger	100%	GC, CL		light olive brown (2.5Y 5/3) clay and gravel, saturated at 25 ft bgs, ~4' thick; olive brown (2.5Y 4/3) clay and silt, little fine-grained sand, soft, low plasticity, moist, little iron staining			25–26
27–29								27–29
30–31		100%	GC, CL		light olive brown (2.5Y 5/3) clay and gravel, saturated at 30 ft bgs, ~ 5" thick, little fine-grained sand and silt, soft; light olive brown (2.5Y 5/3) clay and silt w/some fine-grained sand, stiff, moist, moderate iron staining		Grout	30–31
32–34								32–34
35–36		100%	SM, SP		dark yellowish brown (10YR 4/4) silty fine-grained sand, moist, soft, low plasticity, trace iron staining; dark yellowish brown (10YR 4/4) coarse-grained sand, very loose, saturated last 3"			35–36
37–39								37–39
40–41	Hollow Stem Auger	100%	SM		olive brown (2.5Y 4/3) silty sand, medium to coarse grained, very loose, wet, poorly sorted			40–41
42–44								42–44
45–46		100%	SP		olive brown (2.5Y 4/3) sand, medium-grained, very loose, moist, well sorted			45–46
47–50								47–50

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

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SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD MW-1U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad, David, Beno	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
50–51	Hollow St	100%	SP, SP		olive brown (2.5Y 4/3), sand, medium-grained w/trace silt, wet (first 6" of sample), very soft			50–51
52–54					light olive brown (2.5Y 5/4), sand, medium to coarse grained sand, very loose, moist			52–54
55–56		100%	CL		dark grayish brown (2.5Y 4/2), silty clay w/little fine-grained sand, very stiff, non-plastic, little subrounded pebbles <0.25cm			55–56
57–59								57–59
60–61	Hollow Stem Auger	100%	CL, SM		olive brown (2.5Y 4/3) silty clay w/some fine-grained sand, soft, low plasticity, moist			60–61
62		100%			dark olive brown (2.5Y 4/3) silty fine-grained sand, very soft, moist			62
63			SM		slough			63
64		100%	SP		olive brown (2.5Y 4/3), silty fine-grained sand, very soft, moist, (last 6" of sample)			64
65					dark grayish brown (2.5Y 4/2) medium to coarse-grained sand, very loose, moist, poorly sorted, w/little fine-grained sand		Seal	65
66		67%	SP		No recovery			66
67			SP		dark grayish brown (2.5Y 4/2), medium-grained sand, w/little coarse-grained sand, loose, moist			67
68		75%			dark grayish brown (2.5Y 4/2), medium-coarse grained w/little small pebbles, subrounded, loose, moist			68
69			SP		No recovery			69
70		50%			dark yellowish brown (10YR 3/4), fine-grained sand, very soft, moist			70
71			SP, SP		No recovery			71
72		100%	SP		dark grayish brown (2.5Y 4/2), medium to coarse-grained sand, moist, very loose			72
73					SAA w/gravel, subrounded and subangular ~<1", very loose, moist		Sand	73
74		100%	SP		dark grayish brown (2.5Y 4/2), coarse to very coarse-grained sand and gravel, subangular to subrounded ~<1.25"			74
75					SAA, medium to very coarse-grained sand		Screen	75

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD MW-1U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad, David, Beno	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
75					No recovery			75
76			SP		dark grayish brown (2.5Y 4/2), coarse to very coarse-grained sand and gravel, subangular to subrounded ~<0.75"			76
77			SP					77
78		67%	SP SP		SAA w/gravel ~<1.5", wet gravel and medium-grained sand, olive brown (2.5Y 4/3)			78
79					very dark grayish brown (2.5Y 3/2), medium-grained sand w/some gravel ~<0.75", subangular, wet			79
80								80

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

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SOIL BORING LOG

Date Drilled:	10/29/09	**Total Depth:**	18 feet bgs	**ID:**	**RAD-MW-2S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–5			SP		dark yellowish brown (10YR 4/6), silty very fine to fine-grained sand, very soft, non-plastic		Grout; Seal	0–5
5–6		100%	SP		SAA. Well sorted, poorly graded			5–6
6–7		100%	SP		SAA, color change to dark yellowish brown (10YR 4/4)			6–7
7–9		100%	SP		SAA			7–9
9–10			ML		yellowish brown (10YR 5/6) clayey silt w/little fine-grained sand, non-plastic, very stiff			9–10
10–11		67%	ML		No recovery			10–11
11–12			SP		yellowish brown (10YR 5/6) clayey silt w/little fine-grained sand, non-plastic, very stiff			11–12
12–13		100%	SP		dark yellowish brown (10YR 4/4) very fine to fine-grained sand, moist, very soft, non-plastic		Sand; Screen	12–13
13–14		100%	SP		fine to medium-grained sand, SAA; medium-grained sand, SAA			13–14
14–15		100%	SM		olive brown (2.5Y 4/4) silty very fine-grained sand, very soft, wet, non-plastic			14–15
15–17		100%	SP		olive brown (2.5Y 4/4) fine to medium-grained sand, wet, very loose, poorly graded and sorted			15–17
17–18			ML		olive brown (2.5Y 4/4) clayey silt, w/little fine-grained sand, hard, non-plastic			17–18

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/26/09	**Total Depth:**	18 feet bgs	**ID:**	**RAD MW-3S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Lithologic Description
0–5	Hand Auger		SM	dark yellowish brown (10YR 4/6), silty fine-grained sand, very soft, moist, non-plastic
5–6	Hollow Stem Auger	100%	SM	dark yellowish brown (10YR 4/4), silty fine-grained sand, very soft, moist, non-plastic
6–7		100%	SP	fine to medium-grained sand, saturated at 6.5 ft bgs (~2")
7–8			ML	SAA
8–10		100%	ML	dark yellowish brown (10YR 4/4), clayey silt, little fine-grained, hard, dry, non-plastic, little iron staining SAA
10–11		67%		No recovery
11–12			SM	moist, silty fine-grained sand, soft, (10YR 4/4), non-plastic
12–13		100%	SP	dark yellowish brown (10YR 3/4), very soft, very fine to fine-grained sand, moist
13–14		100%	SP	saturated at 13 ft bgs, dark brown (10YR 3/3), very fine to fine-grained sand, wet, very soft, non-plastic, little gravel, subangular <1cm
14–15			SP	SAA but no gravel, fine-grained sand, well sorted, poorly graded
15–16		100%	SP	SAA
16–17		100%	SP	SAA
17–18			SM	dark yellowish brown (10YR 4/4), silty fine-grained sand, wet, little iron staining, low plasticity

Hydrostratigraphy: ▽ 6.5 ft bgs; ▽ 13 ft bgs

Monitoring Well Construction Detail: Grout; Seal; Sand; Screen

Abbreviations: bgs = below ground surface, SAA = Same as above , USCS = Unified Soil Classification System

Samples Collected: None

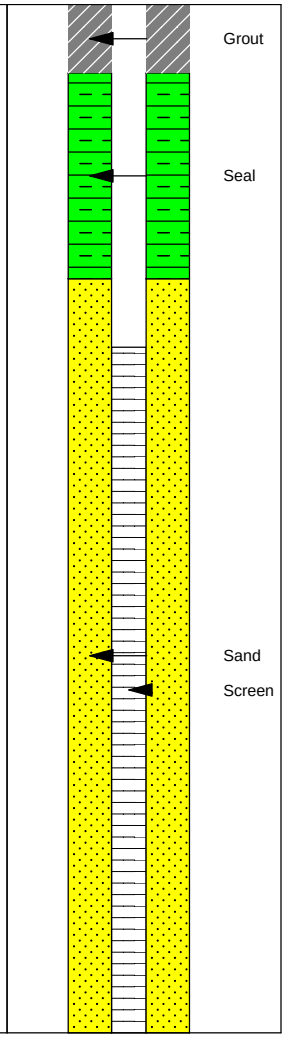
ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/29/09	**Total Depth:**	15 feet bgs	**ID:**	**RAD MW-4S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Lithologic Description
0–5	Hand Auger		SM	dark brown (7.5YR 3/3) silty fine-grained sand, very soft, moist
5	Hollow Stem Auger	67%		No recovery
5–6			SP	strong brown (7.5YR 4/6), fine-grained sand w/little medium-grained sand, very loose, moist
6–7		100%	ML	dark yellowish brown (7.5YR 4/6), sandy silt (fine-grained) w/little clay, low plasticity, moist soft
7–9		100%		clayey silt w/little fine-grained sand, low plasticity, soft
9–11		100%	SM	saturated at 10 ft bgs, dark yellowish brown (10YR 4/4), silty fine-grained sand, very soft, non-plastic
11–12		100%		medium-grained w/little fine-grained sand, SAA
12–14		100%		SAA
14–15			ML	olive brown (2.5Y 4/4), clayey silt, little fine-grained sand, stiff, dry, non plastic, little iron staining

Hydrostratigraphy



Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/29/09	**Total Depth:**	18 feet bgs	**ID:**	**RAD-MW-5S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–5	Hand Auger		SM		yellowish brown (10YR 5/4) sillty very fine to fine grained sand, very soft, non-plastic		Grout; Seal	0–5
5–6	Hollow Stem Auger	33%			No recovery			5–6
6–7		67%	SM		dark yellowish brown (10YR 4/6), silty w/fine-grained sand pockets, vert stiff, dry, non-plastic			6–7
7–8			SM		No recovery; silt, fine-grained sand, SAA			7–8
8–9		75%	SM		No recovery			8–9
9–10			SP		silt, fine-grained sand, SAA; dark yellowish brown (10 YR 4/6), very fine to medium grained sand, very loose, dry, poorly sorted, poorly graded, moist			9–10
10–11		100%	SP		SAA			10–11
11–12		100%	SP		SAA		Sand	11–12
12–13			SM		dark yellowish brown (10 YR 4/4), silty very fine to fine grained sand, very soft, moist, non-plastic	▽	Screen	12–13
13–15		100%	SP		dark yellowish brown (10YR 4/4), fine to medium grained sand, very loose, wet, poorly sorted, poorly graded. Saturated at 13 ft bgs; SAA			13–15
15–16		100%	SP					15–16
16–17		100%	ML / SM		dark yellowish brown (10YR 4/4) silt and fine-grained sand, wet, low plasticity, soft, trace clay			16–17
17–18					olive brown (2.54 4/4), clayey silt with some fine to medium grained sand, hard, moist			17–18

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	85 feet bgs	**ID:**	**RAD MW-5U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–5	Hand Auger				light olive brown (2.5Y 5/4) silty fine-grained sand, very soft, moist			0–5
5–10	Hollow Stem Auger							5–10
10–11.5	Hollow Stem Auger	67%	SP		No recovery yellowish brown (10YR 5/4), fine to medium grained sand, very loose, dry, poorly graded			10–11.5
11.5–15	Hollow Stem Auger							11.5–15
15–16.5	Hollow Stem Auger	100%	SP		dark yelloiwsh brown (10YR 4/4), fine to medium grained sand w/little silt, very soft			15–16.5
16.5–20	Hollow Stem Auger							16.5–20

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	85 feet bgs	**ID:**	**RAD MW-5U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
20–21	Hollow Stem Auger	100%	SP / ML		SAA; olive brown (2.5Y 4/4) silt w/some fine-grained sand and little clay, moist, low plasticity, soft			20–21
22–24								22–24
25–26		100%	SM		olive brown (2.5 Y 4/4) silty very fine to fine-grained sand, soft, moist, low plasticity, little iron staining		Grout	25–26
27–29								27–29
30–31		100%	SM / SM		dark yellowish brown (10YR 3/4) silty fine to medium-grained sand, w/some medium-grained sand, soft, wet; olive brown (2.5Y 4/4) silty fine-grained sand, very soft, non-platic, moist			30–31
32–34								32–34
35–36		100%	SM / ML		dark yellowish brown (10YR 4/4) silty medium-grained sand, moist; olive brown (2.5Y 4/4), clayey silt w/pockets of fine-grained sand, soft, non-plastic, some iron staining			35–36
37–40								37–40

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	85 feet bgs	**ID:**	**RAD MW-5U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
40–41	Hollow Stem Auger	100%	SP		dark grayish brown (2.5Y 4/2) medium-grained sand, very loose, wet, well sorted, poorly graded			40–41
42–44								42–44
45		67%	SP		dark grayish brown (2.5Y 4/2) medium to coars-grained sand, very loose, wet			45
46					No recovery			46
47–49								47–49
50		33%			No recovery			50
51			SP		SAA			51
52–54							Seal	52–54
55–56		100%	SP		dark grayish brown (2.5Y 4/2), medium-grained sand, wet, very loose, poorly sorted, well graded			55–56
57–60								57–60

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

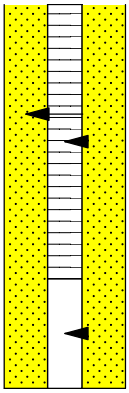
Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	85 feet bgs	**ID:**	**RAD MW-5U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
60	Hollow Stem Auger	33%			No recovery			60
61			SP		dark grayish brown (2.5Y 4/2), medium to coarse-grained sand, wet, very loose, poorly sorted			61
		67%						
62			SP		No recovery		Sand Screen	62
63		100%	SP		medium-grained sand, SAA, well graded			63
64					SAA			64
65		100%	SP		medium-grained sand, SAA			65
66							Sump	66
67		100%	SP		SAA			67
68		100%	SP		little fine-grained sand, SAA			68
69								69
70		100%	SP		medium-grained sand, SAA			70
71								71
72		100%	SP		SAA			72
73		100%	SP		little fine-grained sand, SAA			73
74								74
75		100%	SP		SAA			75
76								76
77		50%			No recovery			77
			SP		SAA			
78		75%						78
			SP		No recovery			
79					fine to medium-grained sand, SAA			79
80								80



Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	10/28/09	**Total Depth:**	85 feet bgs	**ID:**	**RAD MW-5U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Conrad/Ben/David	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
80	Hollow Stem Auger	100%	SP		SAA			80
81								81
82		100%	SP		SAA			82
83		0%	SP		SAA			83
84								84
85								85

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/04/09	**Total Depth:**	105 feet bgs	**ID:**	**RAD MW-6L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–5	Hand Auger		SM		dark yellowish brown (10YR 4/6), silty sand, very loose, dry			0–5
5–6	Hollow Stem Auger	100%	SM		SAA			5–6
6–11.5			ML		yellowish brown (10YR 5/4), sandy silt, very soft, dry, non plastic			6–11.5
11.5–15		100%	ML		dark yellowish brown (10YR 4/6), sandy silt w/little clay, dry, soft, non-plastic			11.5–15
15–16.5		33%	ML		yellowish brown (10YR 4/6) silt w/little fine-grained sand, medium stiff, moist, non-plastic			15–16.5
16.5–17			SM		olive brown (2.5Y 4/4), silty sand, fine-grained, moist, very soft			16.5–17

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/04/09	**Total Depth:**	105 feet bgs	**ID:**	**RAD MW-6L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
20–21	Hollow Stem Auger	100%	ML		light olive brown (2.5Y 5/4), clayey silt w/some fine-grained sand, wet, medium plasticity			20–21
22–24								22–24
25–26		100%	SM		light olive brown (2.5Y 5/4), silty sand, fine-grained, very soft, little clay and iron staining, wet, non-plastic			25–26
27–29								27–29
30–31		100%	ML		light olive brown (2.5Y 5/3), clayey silt w/little fine-grained sand, wet, little iron staining, medium stiff, low plasticity, fine-grained sand lense (olive brown 2.5Y 4/4)			30–31
32–34								32–34
35–36		100%	ML		light olive brown (2.5Y 5/3), sandy silt w/little clay, medium stiff, little iron staining, wet, low plasticity			35–36
37–40								37–40

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/04/09	**Total Depth:**	105 feet bgs	**ID:**	**RAD MW-6L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
40–41	Hollow Stem Auger	100%	ML		light olive brown (2.5Y 5/3) sandy silt w/little clay, soft, little iron staining, wet, low plasticity, wet			40–41
41–42			CL		light olive brown (2.5Y 5/3), silty clay w/little fine-grained sand, medium stiff, little iron staining, low plasticity, wet			41–42
42–43								42–43
43–44								43–44
44–45								44–45
45–46		50%	SP		olive brown (2.5Y 4/4), sand, medium-grained, very loose, wet, poorly graded and sorted			45–46
46–47					No recovery			46–47
47–48								47–48
48–49							Grout	48–49
49–50								49–50
50–51		33%			No recovery			50–51
51–52			SP		dark yellowish brown (10YR 4/6), sand, medium-grained, very loose, wet			51–52
52–53								52–53
53–54								53–54
54–55								54–55
55–56		100%	SP		olive brown (2.5Y 4/4), sand, medium- grained, very loose, wet, well sorted and poorly graded			55–56
56–57								56–57
57–58								57–58
58–59								58–59
59–60								59–60

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/04/09	**Total Depth:**	105 feet bgs	**ID:**	**RAD MW-6L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
60–80	Hollow Stem Auger	33%			No recovery			
61					olive brown (2.5Y) sand, medium-grained, very loose, wet, trace subangular to subrounded pebbles			
65		100%	SP		grayish brown (2.5Y 5/2), silty sand w/little clay, soft, non-plastic, wet			
66					olive brown (2.5Y 4/4), sand, medium-grained, wet, very loose			
70		100%	SC		grayish brown (2.5Y 5/2), clayey sand, w/some silt fine-grained, low plasticity, wet			
71			SP		olive brown (2.5Y 4/4), sand, medium w/little coarse grains and very coarse grains, wet, very loose, trace subrounded pebbles			
75		100%	SP		olive brown (2.5Y 4/4), sand, medium grained w/little coarse grains, wet, very loose, poorly sorted and graded			

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/04/09	**Total Depth:**	105 feet bgs	**ID:**	**RAD MW-6L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
80–81	Hollow Stem Auger	100%	SP		olive brown (2.5Y 4/4), sand, medium-grained w/some coarse grains, very loose, wet, poorly sorted and graded			80–81
81–82		50%			No recovery			81–82
82–83								82–83
83–84		50%	SP		very fine to fine-grained sand, very dark grayish brown (2.5Y 3/2)			83–84
84–85					No recovery			84–85
85–86		67%	SP		No recovery; very dark gray (2.5Y 3/1), very fine to fine-grained sand, well sorted, wet, very loose, poorly graded			85–86
86–87		67%	SP		dark grayish brown (2.5Y 4/2), fine to coarse-grained sand, w/little subrounded gravel, wet			86–87
87–88		67%	SP		No recovery; SAA w/some pebbles, subrounded, very coarse-grained sand			87–88
88–89					No recovery			88–89
89–90		100%	SP		olive brown (2.5Y 4/3), sand, medium-grained, subangular to subrounded pebbles, loose, wet			89–90
90–91		100%	SP		olive (2.5Y 4/3) subangular to subrounded pebbles, wet, loose, no cementation			90–91
91–92		100%	SP		SAA			91–92
92–93		100%	SP		SAA, medium to coarse grained only			92–93
93–94			SP		SAA, medium to pebble size grain w/trace subangular to subrounded gravel <1in			93–94
94–95		67%	SP		SAA			94–95
95–96					No recovery			95–96
96–97		33%	SP		SAA, subangular to subrounded gravel <1cm, medium pebble sized sand		Seal	96–97
97–98					No recovery			97–98
98–99		100%	SP		SAA			98–99
99–100			CL		greenish clay, (GLEY2 5/10BG), clay, 1m thick			99–100
100		100%	SP		bluish gray (GLEY2 5/5B), sand, medium to coarse-grained w/little pebbles,			100

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/04/09	**Total Depth:**	105 feet bgs	**ID:**	**RAD MW-6L**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
100	Hollow Stem Auger				subangular gravel <1cm, wet, loose			100
101		100%	SP		SAA		Sand	101
102								102
103		0%			No recovery		Screen	103
104		100%	SP		SAA, bluish gray (GLEY2 6/1)			104
105								105

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/05/09	**Total Depth:**	25 feet bgs	**ID:**	**RAD MW-6S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0	Hand Auger		SM		dark yellowish brown (10YR 4/4), silty sand, fine-grained		Grout; Seal	0
1								1
2								2
3								3
4								4
5	Hollow Stem Auger	33%	SM		No recovery			5
6					dark yellowish brown (10YR 4/4), silty sand, fine-grained			6
7		33%	SM		yellowish brown (10YR 3/4), silty sand, fine-grained, loose, dry			7
					No recovery			
8		33%	SM		SAA			8
9					No recovery			9
10		67%			No recovery			10
			ML		yellowish brown (10YR 5/6) silt w/little fine-grained sand, soft, dry, non-plastic			
11		67%	SM		yellowish brown (10YR 5/6) silty sand w/little medium-grains, very loose, dry, little clay			11
12					No recovery			12
13		100%	ML		yellowish brown (10YR 5/6) ailt w/little fine-grained sand, low plasticity, dry			13
14			SP		yellowish brown (10YR 5/4), sand, fine-grained with little medium-grains, very loose, dry			14
		100%	SP					
15			ML		SAA		Sand Pack; Screen	15
					dark yellowish brown (10YR 4/4), silt w/little clay, dry, hard			
16		100%	SP		dark yellowish brown (10YR 4/4) sand, fine-grained first 3", medium to coarse-grained for 1", fine-medium grained remainder, wet, poorly sorted and graded	▽		16
17		100%	SP		fine-grained			17
18			SM		dark yellowish brown (10YR 4/4), silty sand, fine-grained, loose, wet			18
19		100%	SP		fine-grained w/some medium-grained sand, SAA			19
20			ML		olive brown (2.5Y 5/4), silt w/some clay and little fine-grained sand			20

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/05/09	**Total Depth:**	25 feet bgs	**ID:**	**RAD MW-6S**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
20	Hollow Stem Auger	100%	ML		dry, slow dilatancy, low plasticity, stiff			20
21								21
22		100%	ML		SAA, moist, little iron staining, soft			22
23		100%	SP		light olive brown (2.5Y 5/4), sand, medium-grained, wet, very loose, little coarse grained sand, poorly graded and sorted			23
24								24
25		100%	SP		dark reddish brown (5YR 3/3), SAA			25

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/03/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD-MW-6U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/ Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
0–4	Hand Auger		SM		dark yellowish brown (10YR 4/6), silty fine grained sand, some medium-grained, very loose, dry			0–4
5–6	Hollow Stem Auger	100%	SM		medium dense, SAA			5–6
7–9								7–9
10–11		67%	SM		No recovery; dark yellowish brown (10YR 4/4), sandy silt, some fine-grained sand, dry, low plasticity, soft			10–11
12–14								12–14
15–16		33%			No recovery			15–16
16–17		100%	ML, ML, SW		dark yellowish brown (10YR 4/4),silt with some clay and little fine-grained sand, dry, hard; SAA. Saturated at 17 ft bgs	▽		16–17
18–19					olive brown (2.5Y 4/3), sand, well graded, fine to medium-grained w/some coarse grains at bottom, very loose, wet			18–19
20–21		100%	SP		olive brown (2.5Y 4/3) sand, fine-grained, very loose, wet, well sorted, poorly graded			20–21
21–22			SP		light olive brown (2.5Y 5/3) silty clay with little fine-grained sand, soft, high plasiticity, wet			21–22
23–25								23–25

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/03/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD-MW-6U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/ Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
25	Hollow Stem Auger	33%			No recovery. Saturated at 25 ft bgs			25
26			SP		dark grayish brown (10YR 4/2), sand, medium to coarse grained, saturated, very loose, iron staining little			26
27			CL					27
28					olive brown (2.5Y 4/3) silty clay, w/little fine-grained sand, soft, non-plastic, wet, some iron staining			28
29								29
30		100%	SP		dark grayish brown (10YR 4/2) sand, medium-grained, wet, very loose, little coarse grains			30
31			ML		olive brown (2.5Y 4/3), sandy silt, low plasticity, wet, fine-grained, little iron staining			31
32								32
33								33
34							Grout	34
35		67%			No recovery			35
36			ML		light olive brown (2.5Y 5/3) clayey silt w/some fine-grained sand, stiff, some iron staining, low plasticity, moist			36
37								37
38								38
39								39
40		100%			olive brown (2.5Y 4/3) clayey silt w/some fine-grained sand, medium stiff, medium plasticity, moist, little iron staining			40
41								41
42								42
43								43
44								44
45		67%	SP		olive brown (2.5Y 4.3) sand, fine-grained, very loose, saturated			45
46					No recovery			46
47								47
48								48
49								49
50								50

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/03/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD-MW-6U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/ Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
50–51	Hollow Stem Auger	67%	SP		olive brown (4/4) sand, fine to medium grained, very loose, wet			50–51
51–52					No recovery			51–52
52–54								52–54
55–56		0%	SP		No recovery, sand			55–56
57–59								57–59
60–61		100%	SP		grayish brown (2.5Y 5/2), sand, medium-grained, trace angular pebbles, wet, very loose, little coarse-grained sand			60–61
62		33%	SP		SAA			62
63					No recovery			63
64		100%	SP		dark grayish brown (2.5Y 4/2)			64
65		100%			SAA w/trace angular gravel <75"			65
66–67		50%	ML		olive brown (4/3) clayey silt, w/some fine-grains, soft, wet, high plasticity, little iron staining			66–67
68		100%	SP		No recovery			68
69					dark grayish brown (2.5Y 4/2) silty sand, fine to medium grained, very loose, wet		Seal	69
70					grayish brown (2.5Y 5/2) sand, medium-grained, wet, very loose, little coarse-grained sand			70
71		100%	SP		SAA			71
72		100%			grayish brown (2.5Y 5/2)			72
73					medium-grained sand		Sand	73
74		67%			Same as above, w/little coarse-grained sand		Screen	74
75					fine-grained sand			75
					No recovery			

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS
Infrastructure, environment, buildings

SOIL BORING LOG

Date Drilled:	11/03/09	**Total Depth:**	80 feet bgs	**ID:**	**RAD-MW-6U**
Drilling Contractor:	Cascade Drilling, Inc.	**Borehole Diameter:**	8 inches		
Driller's Name:	Brett/Troy/ Mark	**Drive Weight:**	140 pounds	**Client:**	PG&E Radback Oakley
Logged By:	L. Kwong	**Drop Distance:**	18 inches	**Location:**	6000 Bridgehead Road
Reviewed By:	A. Valdivia	**Sampling Method:**	Split Spoon		Oakley, CA
Drilling Method:	Hollow Stem Auger	**Well Construction:**	Schedule 40 PVC		
Rig Type:	CME-95	**Well Diameter:**	2 inches	**Project Number:**	RC000746.0002.00007

Depth (feet bgs)	Drilling Interval	Recovery (feet)	USCS Code	Geologic Column	Lithologic Description	Hydrostratigraphy	Monitoring Well Construction Detail	Depth (feet bgs)
75	Hollow Stem Auger	100%	SP					75
76					fine to medium grained sand			76
77		100%			coarse-grained, gray (2.5Y 5/1)			77
78					medium-grained w/little coarse grains, grayish brown, (2.5Y 5/2)			78
79		100%			fine to medium-grained sand, gray, (2.5Y 5/1)			79
80		100%			grayish brown (2.5Y 5/2), coarse-grained			80
					fine to medium-grained sand			

Abbreviations: bgs = below ground surface, SAA = Same as above, USCS = Unified Soil Classification System

Samples Collected: None

ARCADIS

Appendix B

Cone Penetrometer Test Logs

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

October 26, 2009

Arcadis
Attn: Katherine Brandt
1900 Powell St., 12th Floor
Emeryville, California

Subject: CPT Site Investigation
PG&E
Oakley, California
GREGG Project Number: 09-170MA

Dear Ms. Brandt:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	Resistivity Cone Penetration Tests	(RCPTU)	☐
5	UVOST Laser Induced Fluorescence	(UVOST)	☐
6	Groundwater Sampling	(GWS)	☒
7	Soil Sampling	(SS)	☐
8	Vapor Sampling	(VS)	☐
9	Vane Shear Testing	(VST)	☐
10	SPT Energy Calibration	(SPTE)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302
OTHER OFFICES: LOS ANGELES • HOUSTON • SOUTH CAROLINA
www.greggdrilling.com

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-01	10/25/09	40	20NR, 37	-	-
CPT-02	10/25/09	37	20NR, 37	-	-
CPT-03	10/22/09	40	18, 30	-	27.9
CPT-04	10/21/09	40	16, 26	-	-
CPT-05	10/21/09	40	19, 27	-	-
CPT-06	10/23/09	80	18, 41, 71	-	70.0
CPT-07	10/23/09	70	-	-	-
CPT-08	10/23/09	40	-	-	-
CPT-09	10/23/09	45	-	-	-
CPT-10	10/25/09	43	-	-	-
CPT-11	10/23/09	40	18, 40	-	-
CPT-12	10/23/09	46	20, 45	-	36.6

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Copies of ASTM Standards are available through www.astm.org

GREGG

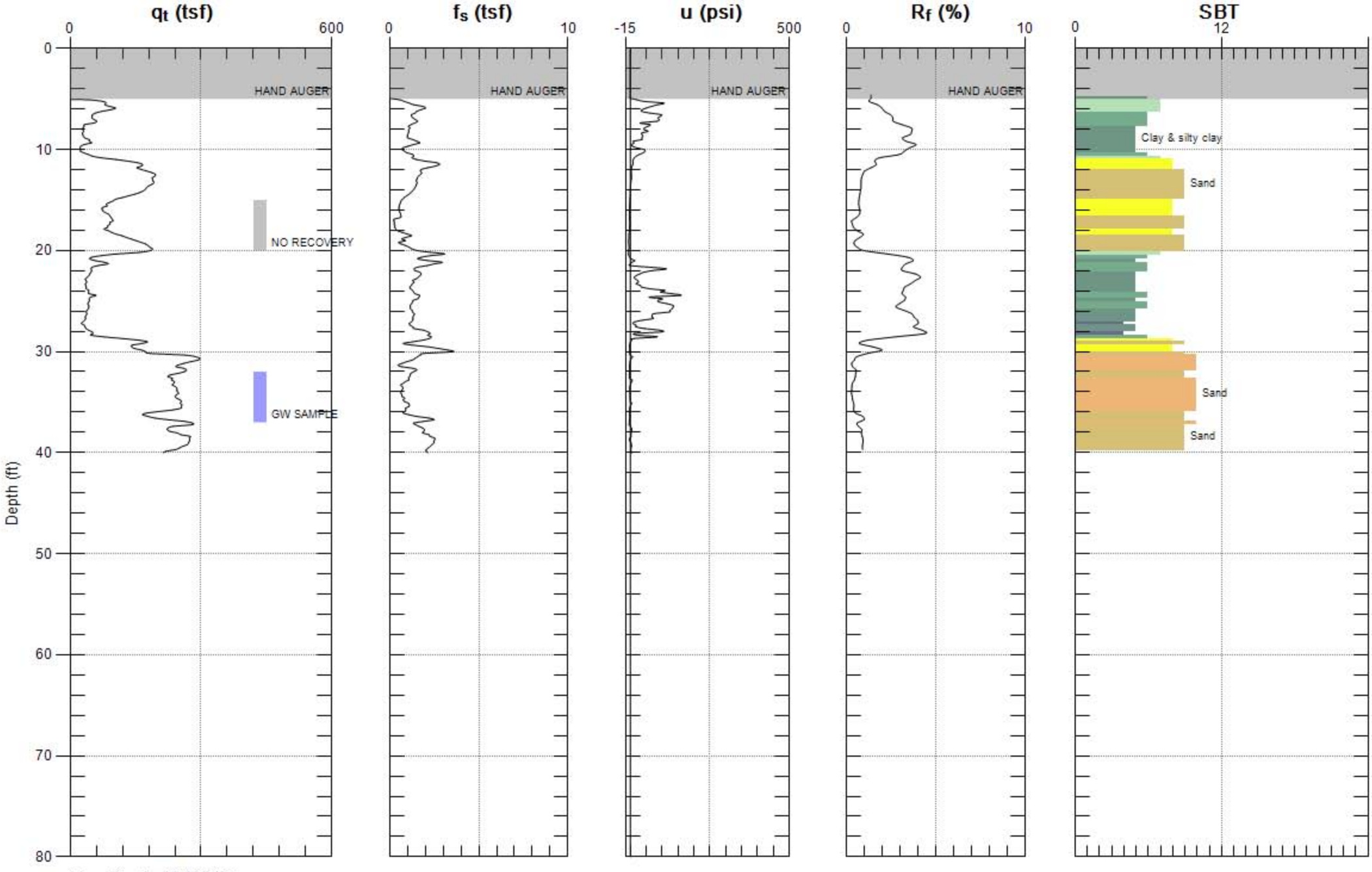
ARCADIS

Site: PG&E OAKLEY

Sounding: CPT-01

Engineer: K.BRANDT

Date: 10/25/2009 08:09



Max. Depth: 40.026 (ft)
Avg. Interval: 0.328 (ft)

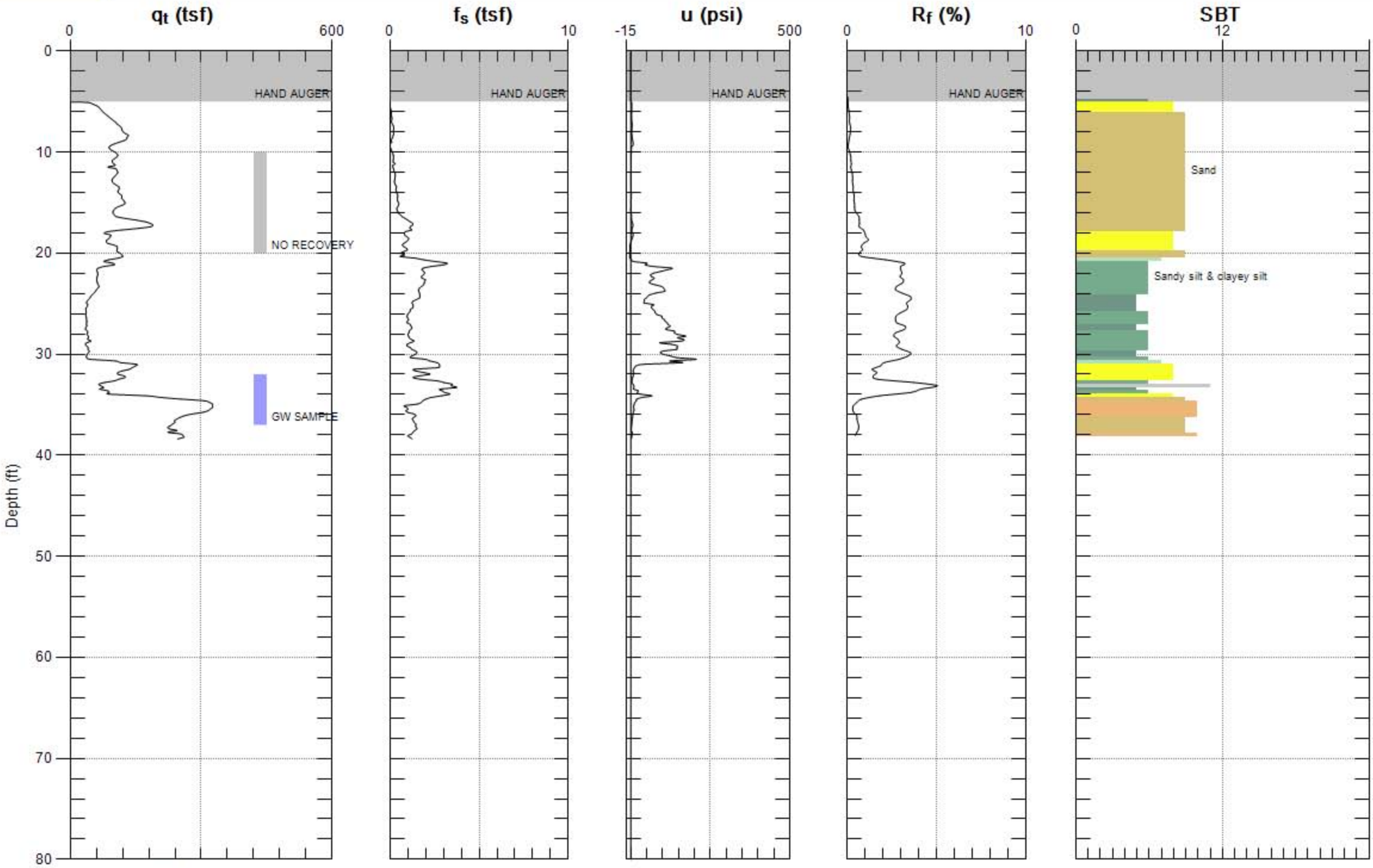
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ARCADIS

Site: PG&E OAKLEY **Engineer: K.BRANDT**

Sounding: CPT-02 **Date: 10/25/2009 02:59**



Max. Depth: 38.386 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

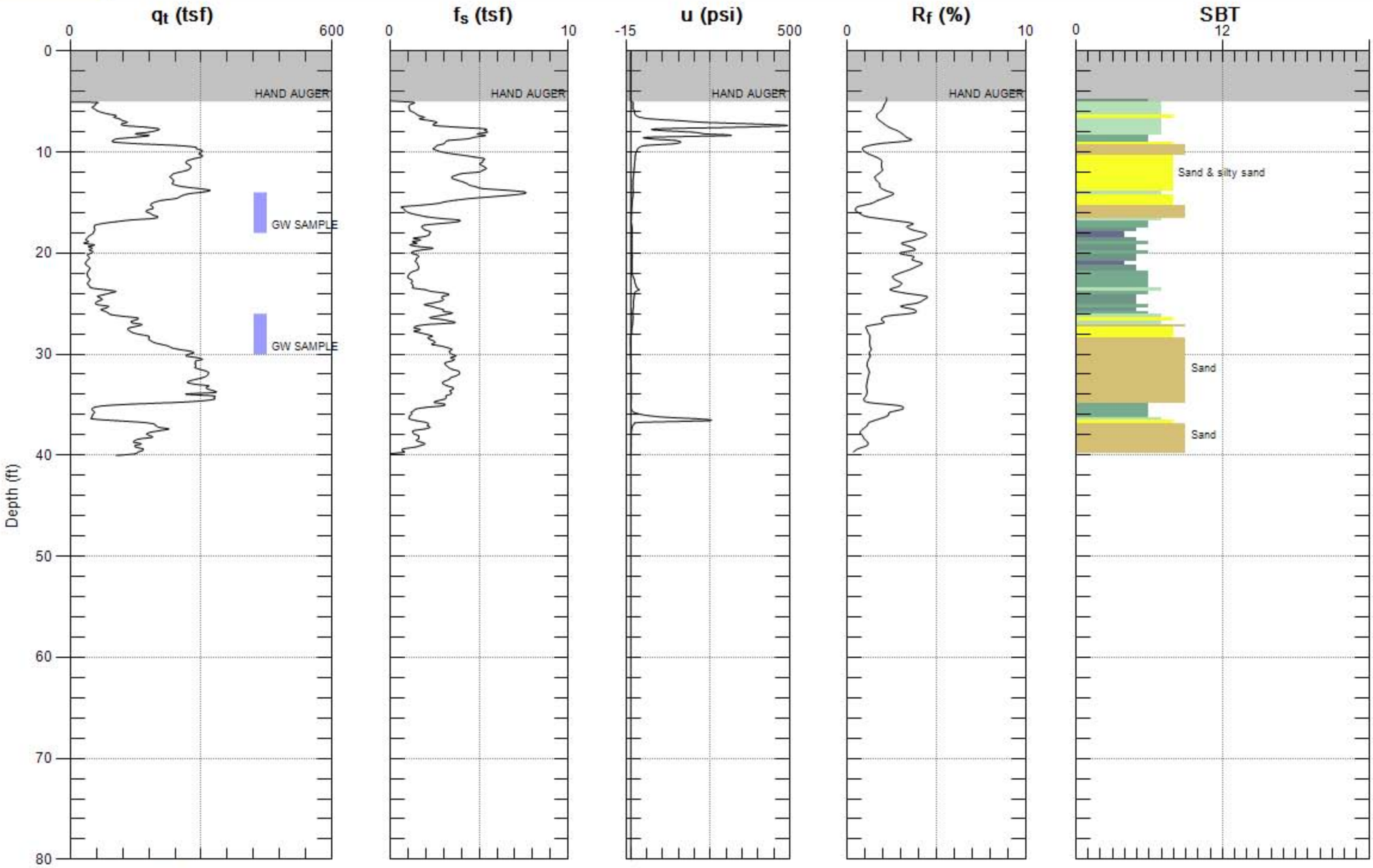
ARCADIS

Site: PG&E OAKLEY

Sounding: CPT-03

Engineer: K.BRANDT

Date: 10/22/2009 01:00



Max. Depth: 40.026 (ft)
Avg. Interval: 0.328 (ft)

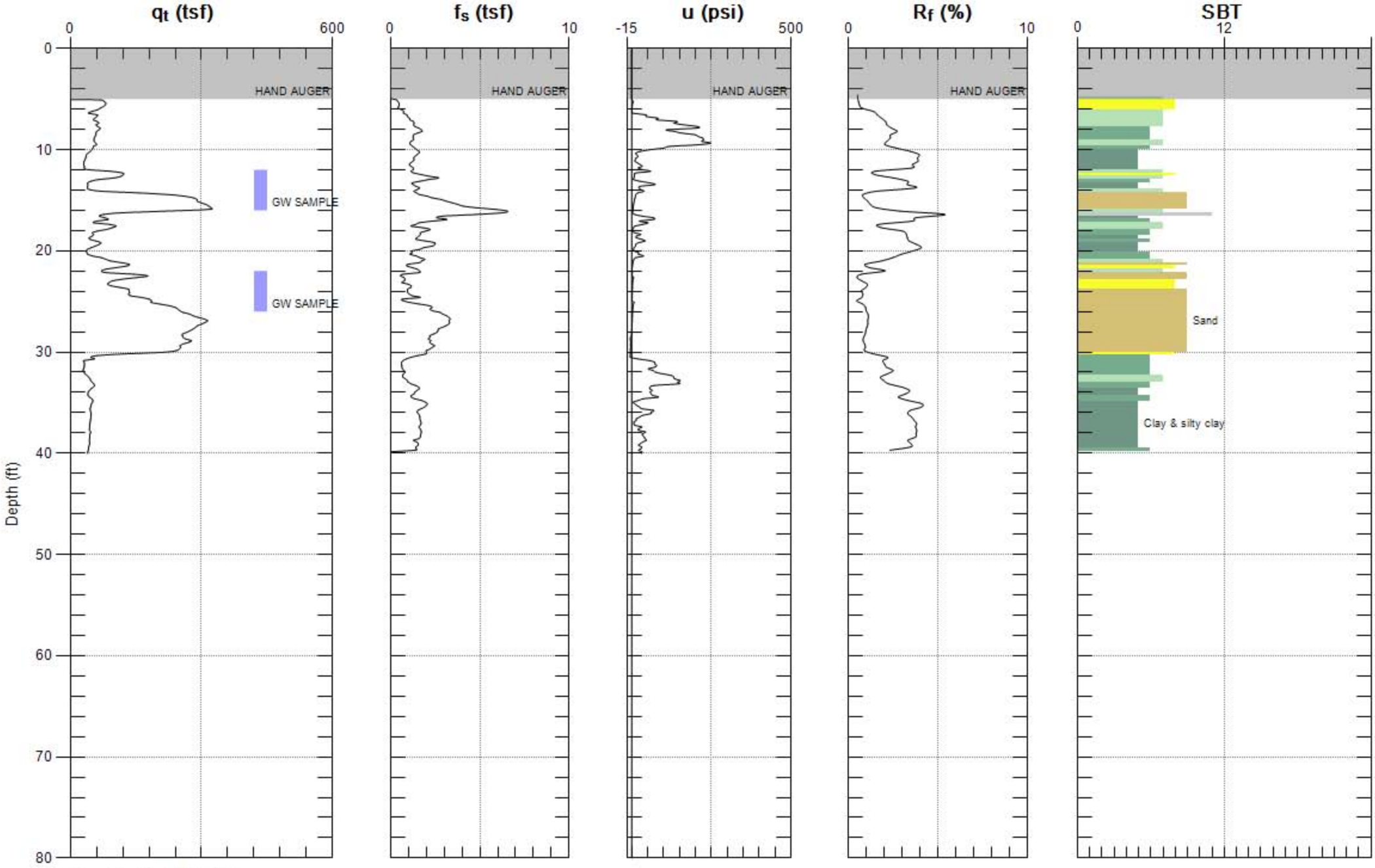
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ARCADIS

Site: PG&E OAKLEY **Engineer: K.BRANDT**

Sounding: CPT-04 **Date: 10/21/2009 01:25**



Max. Depth: 40.026 (ft)
Avg. Interval: 0.328 (ft)

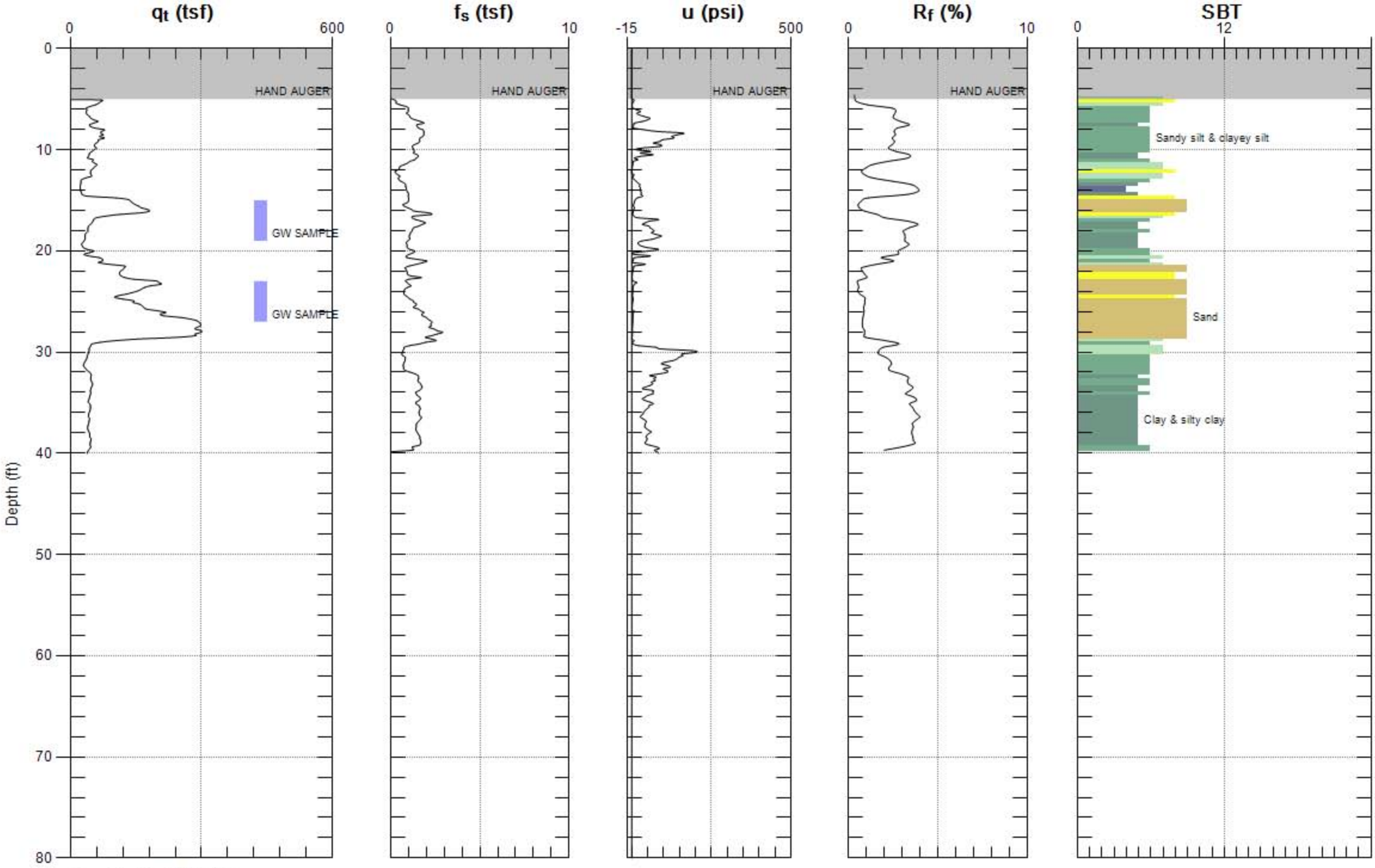
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ARCADIS

Site: PG&E OAKLEY **Engineer: K.BRANDT**

Sounding: CPT-05 **Date: 10/21/2009 09:26**



Max. Depth: 40.026 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

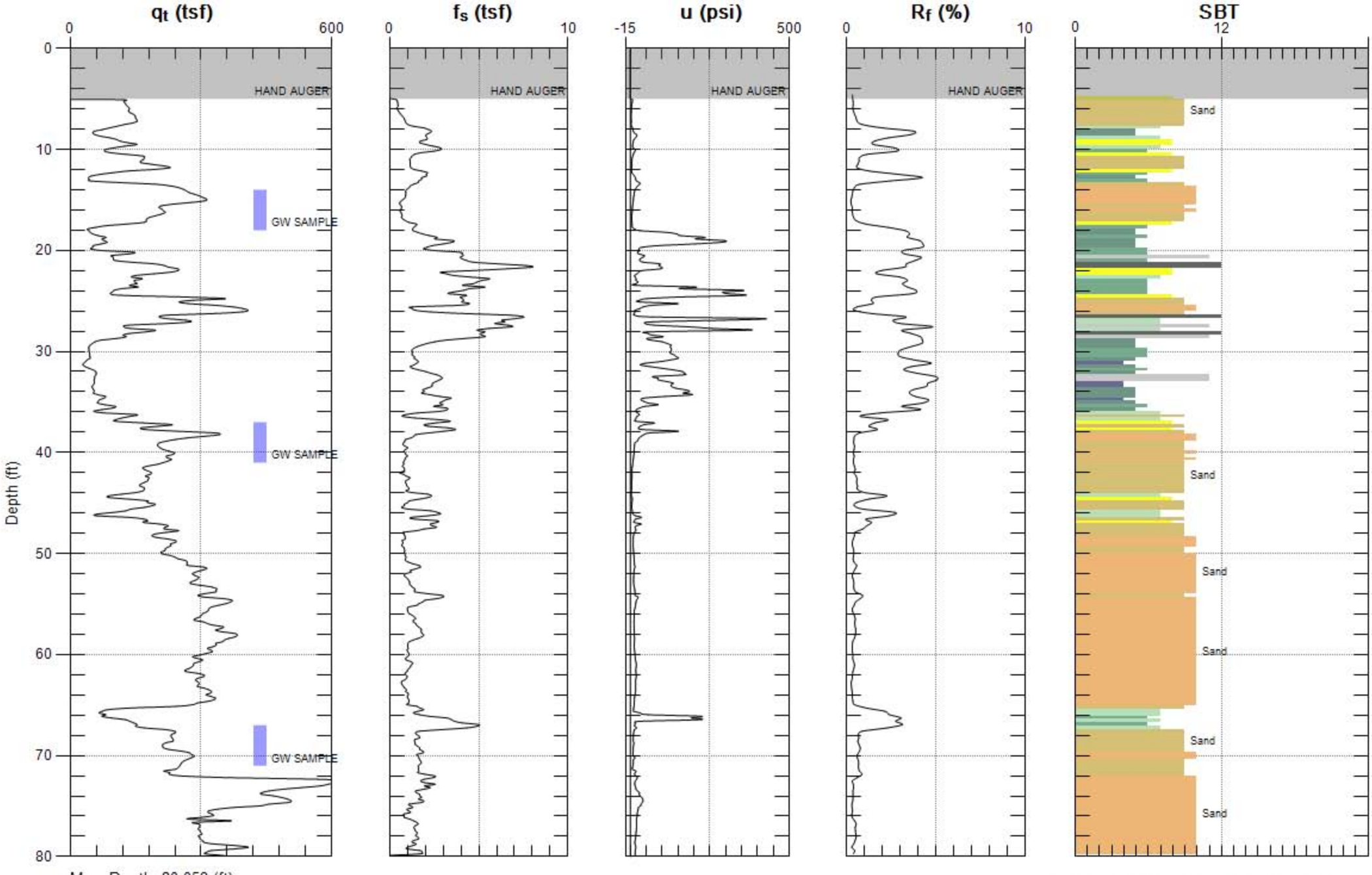
ARCADIS

Site: PG&E OAKLEY

Sounding: CPT-06

Engineer: K.BRANDT

Date: 10/23/2009 08:36



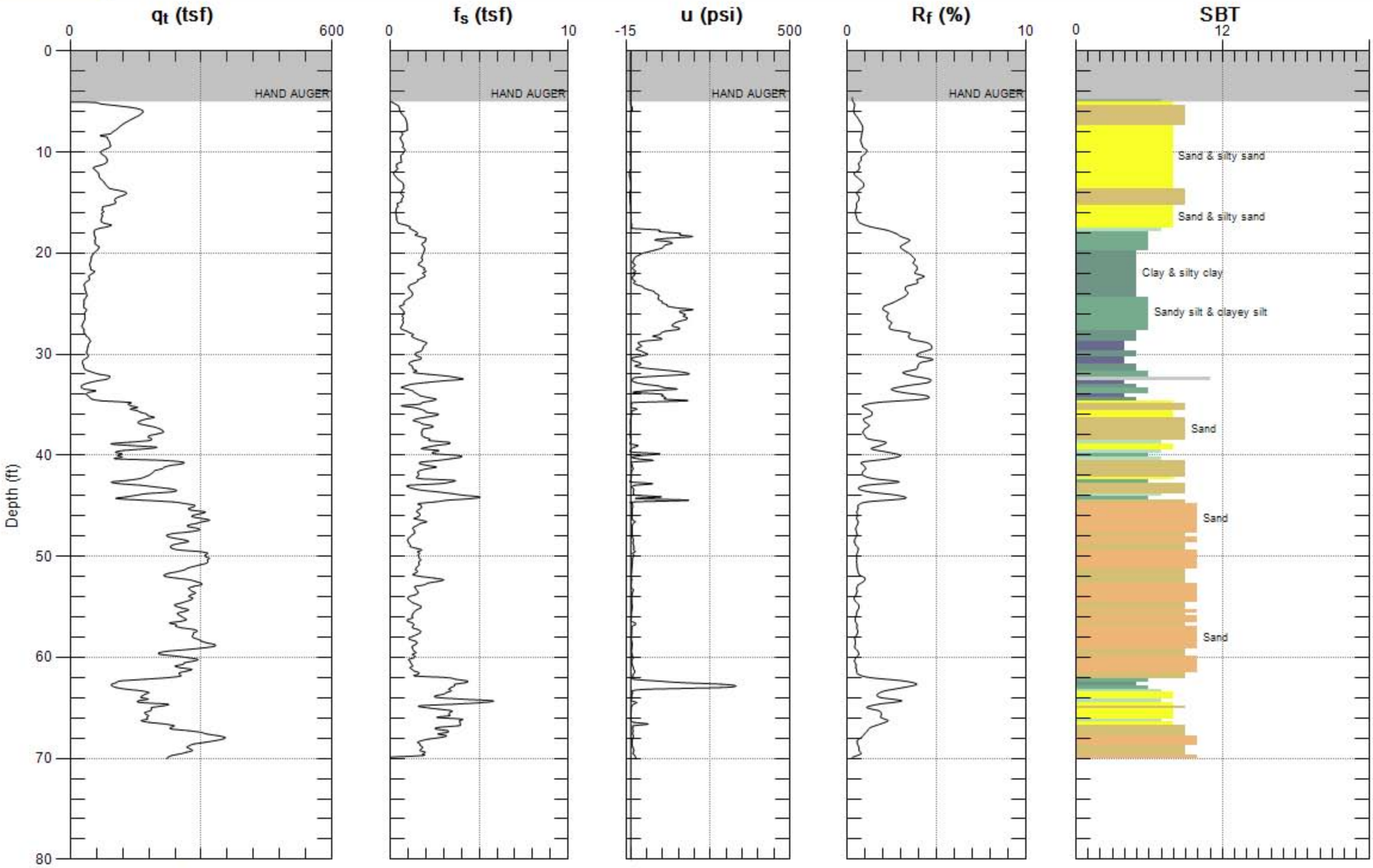
Max. Depth: 80.052 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ARCADIS

Site: PG&E OAKLEY
Sounding: CPT-07

Engineer: K.BRANDT
Date: 10/23/2009 02:44



Max. Depth: 70.046 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

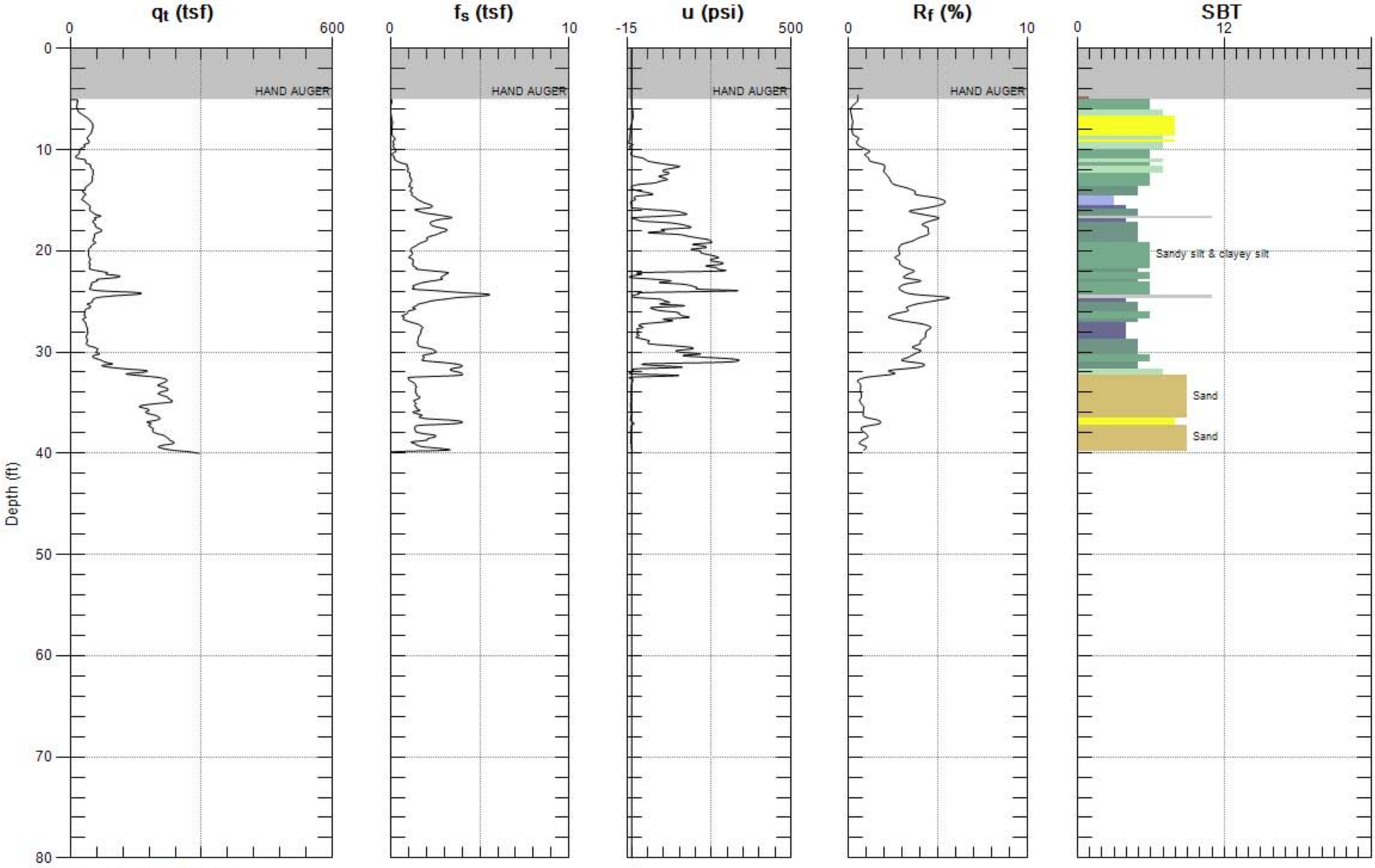
ARCADIS

Site: PG&E OAKLEY

Sounding: CPT-08

Engineer: K.BRANDT

Date: 10/23/2009 04:40



Max. Depth: 40.026 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

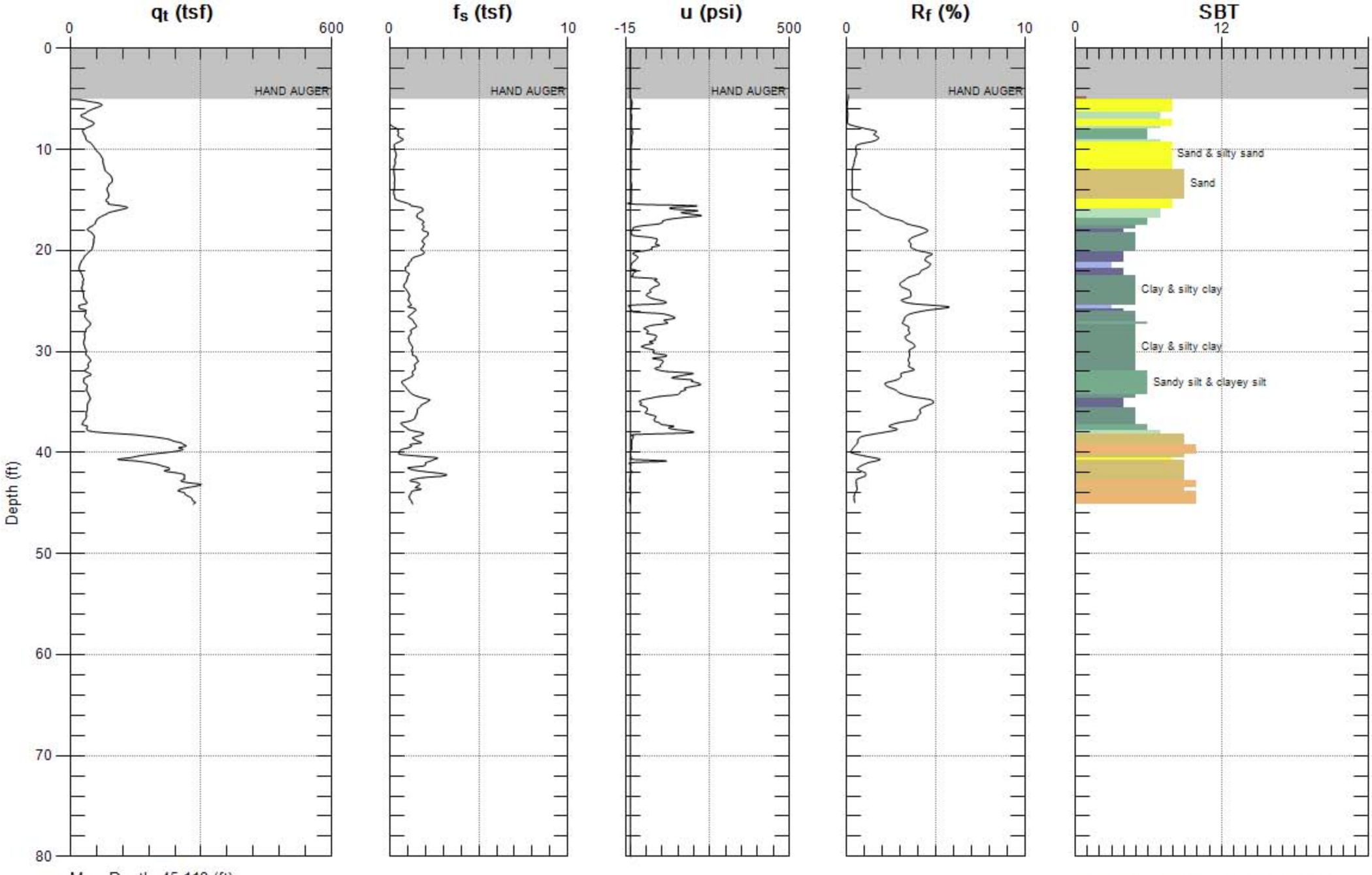
ARCADIS

Site: PG&E OAKLEY

Sounding: CPT-09

Engineer: K.BRANDT

Date: 2009-10-23 03:23



Max. Depth: 45.112 (ft)
Avg. Interval: 0.328 (ft)

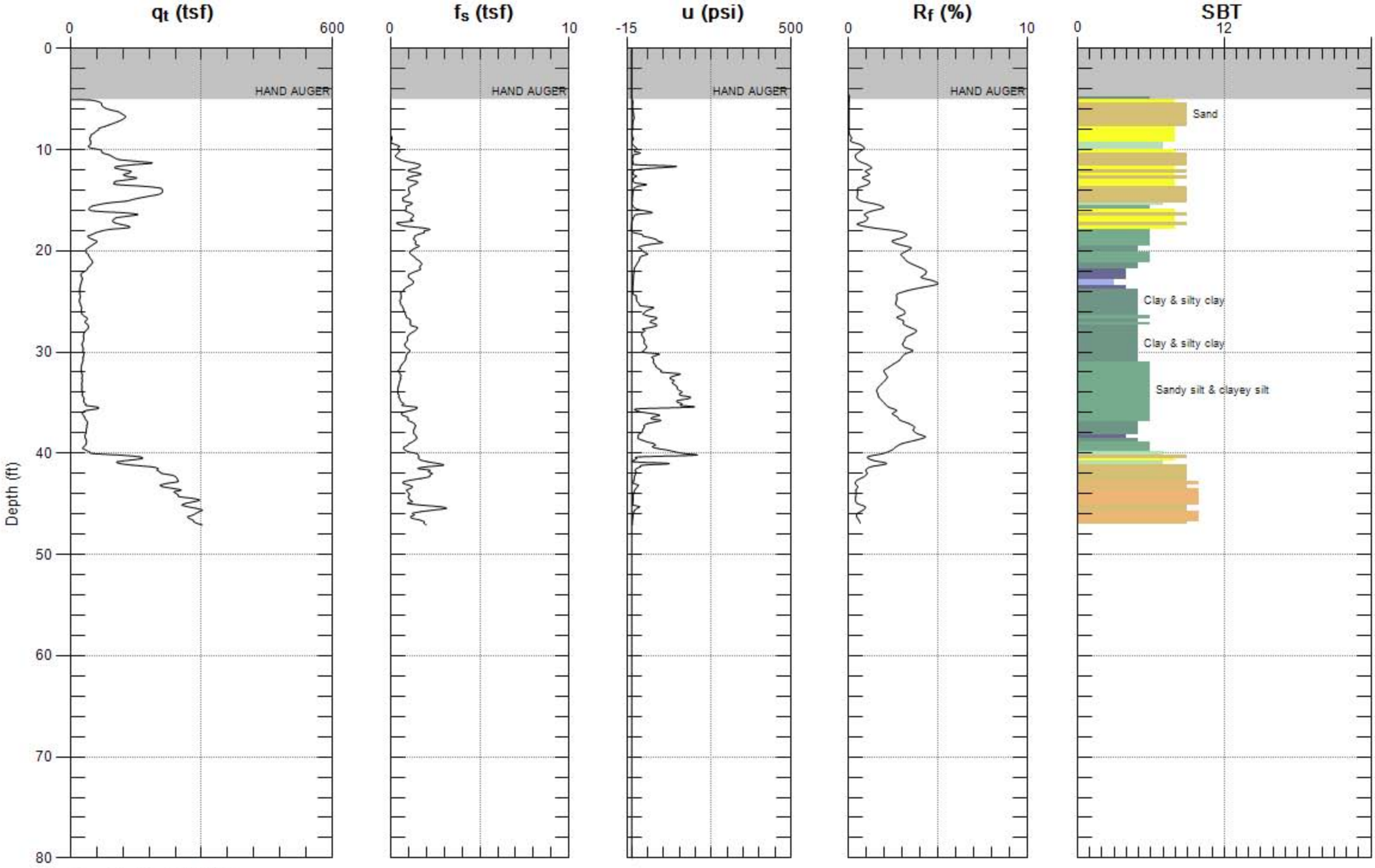
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ARCADIS

Site: PG&E OAKLEY **Engineer: K.BRANDT**

Sounding: CPT-10 **Date: 10/25/2009 11:24**



Max. Depth: 47.080 (ft)
Avg. Interval: 0.328 (ft)

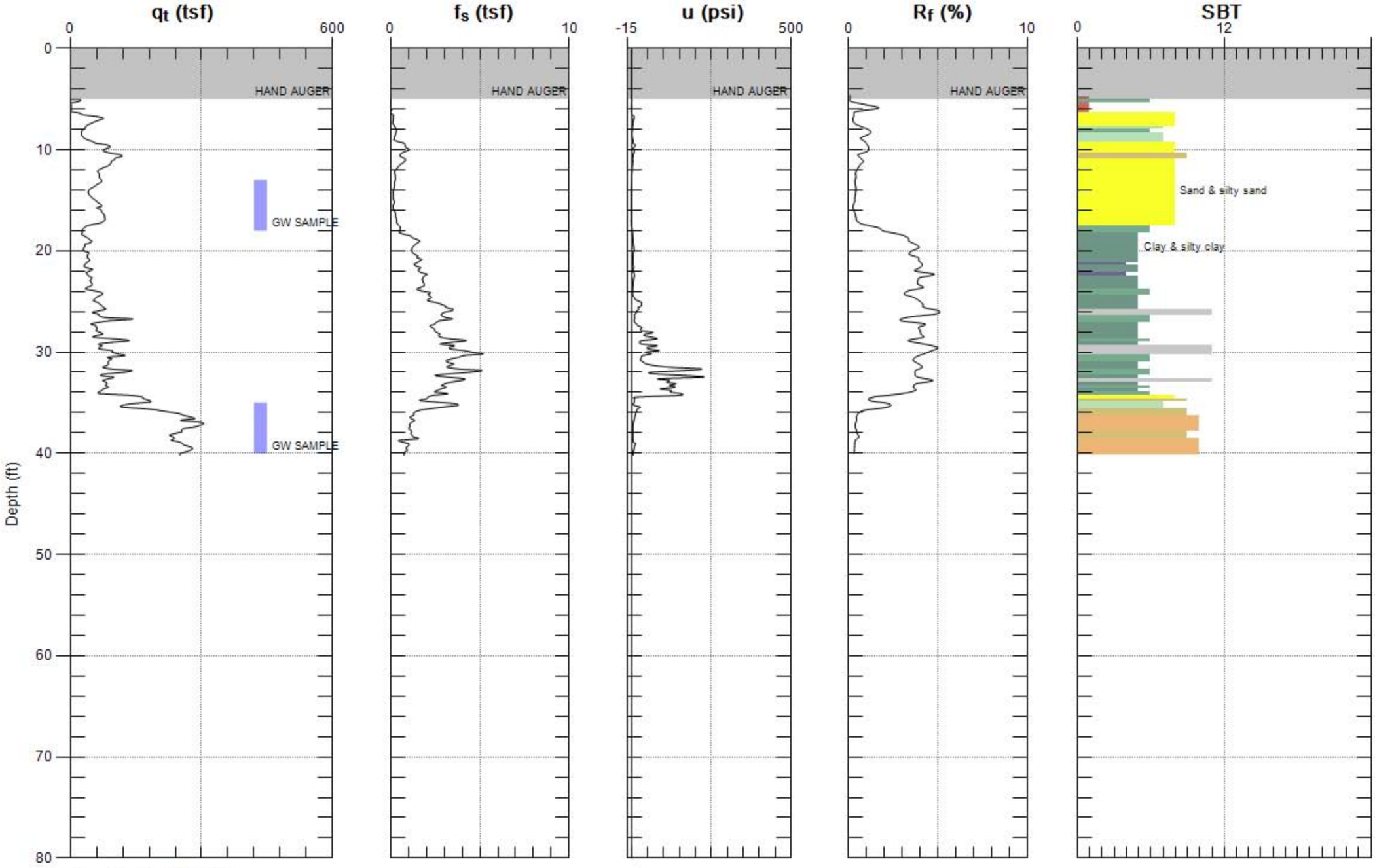
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ARCADIS

Site: PG&E OAKLEY **Engineer: K.BRANDT**

Sounding: CPT-11 **Date: 10/23/2009 09:24**



Max. Depth: 40.190 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

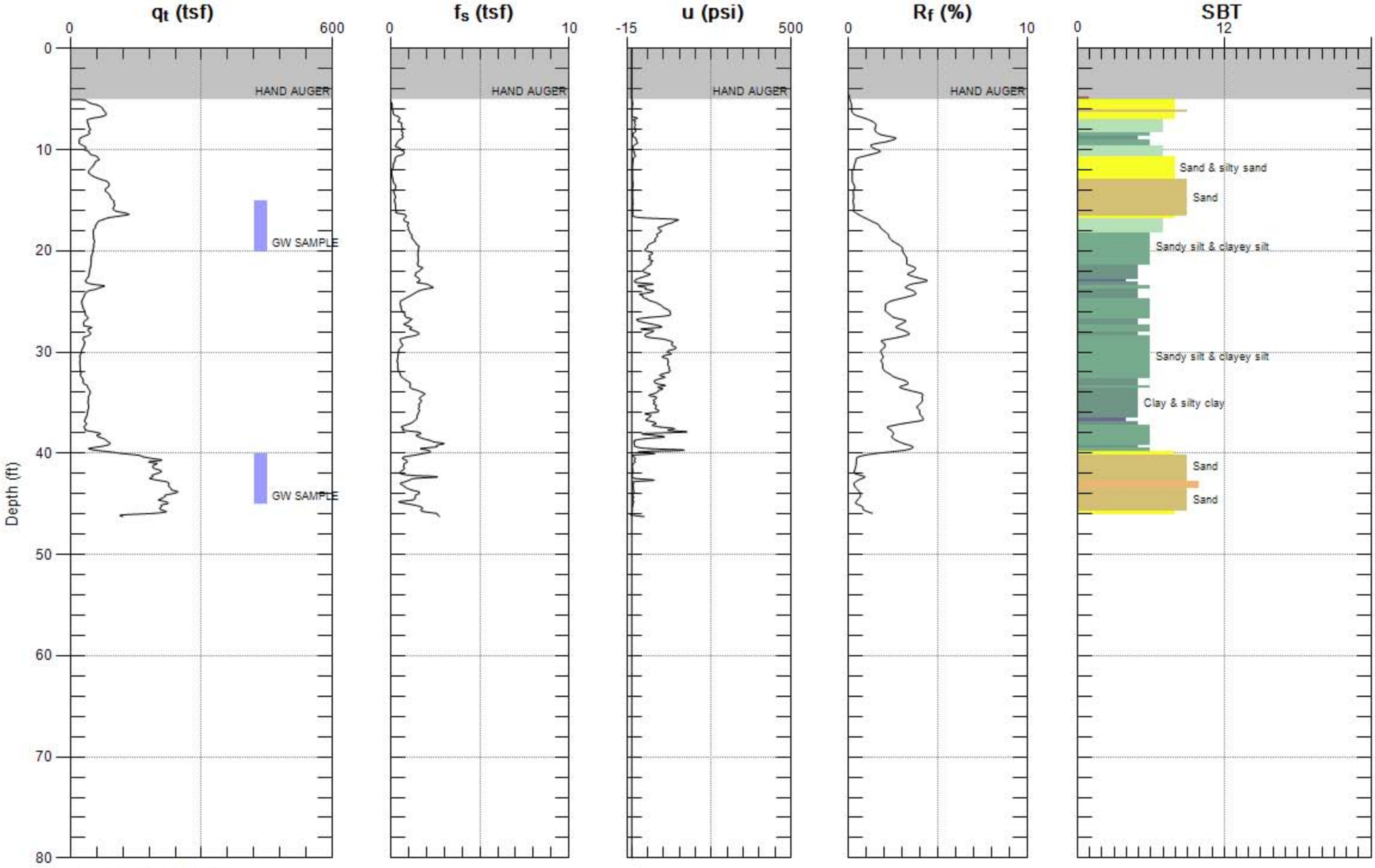
ARCADIS

Site: PG&E OAKLEY

Sounding: CPT-12

Engineer: K.BRANDT

Date: 10/23/2009 02:09



Max. Depth: 46.260 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ARCADIS

Appendix C

Groundwater Monitoring Well Development Forms

09M-1676

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007
Task: Develop./Monitoring
Well ID: MW-1S
Date: 11/04/2009
Developed By: Andrea Valdivia
Weather: Sunny, windy
Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC
Casing Diameter: 2"
Total Depth: 16.89'
Depth to Water: 9.32'
Water Column: 7.57'
Gallons/Foot: 0.16 gal/ft
Gallons in Well: 1.21 gal
End TD: 17.53'

Development Technique: Surge and purge
Screen Interval: From: 5' To: 15'
Pump Intake Setting:
Volumes to be Purged: ~10 casing volumes
Total Volume Purged:
Pump on: Off:

Well Casing Volumes (gal/ft): 2" = 0.16, 3" = 0.37, 3½" = 0.50, 4" = 0.65, 6" = 1.46

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
0954	START	SURGE	—	—	—	—	—	
1014	1.5	—	22.28	7.81	32.7	2056	6.57	Silty, brown, opaque
1017	3.0	15.20'	21.87	7.65	45.8	2102	7.42	Does not recharge quickly
1027	4.0	—	21.80	7.52	52.2	1854	7.46	
1031	5.0	14.80'	21.37	7.51	59.6	1605	7.70	Translucent
1038	6.0	—	21.74	7.40	53.3	1160	7.21	
1043	7.0	14.75'	21.97	7.35	54.9	1135	7.24	Recharging quicker
1046	8.0	—	21.64	7.35	57.2	1091	7.41	Looking clearer
1051	9.0	15.15'	21.55	7.38	57.5	938	7.58	
1059	10.0	—	21.86	7.27	54.9	817	8.01	Almost clear
1103	11.0	12.40'	21.81	7.25	54.7	786	8.03	
1105	12.0	13.38'	21.94	7.18	59.6	823	7.84	
	END							

Remarks / Comments:

Completed By: Andrea Valdivia
Signature:
Reviewed By:
Date: November , 2009

09M-1682

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 | Task: Develop./Monitoring | Well ID: MW-1U

Date: 11/04/2009 | Developed By: Andrea Valdivia

Weather: Sunny, windy | Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		~~0205~~ 02D058 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 80.46'

Depth to Water: 9.21'

Water Column: 71.25'

Gallons/Foot: 0.16

Gallons in Well: 11.4 gal

Pump depth: 76' w/ screen

Final TD: 81.05'

Development Technique: Surge and purge

Screen Interval: From: 72' To: 77'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 114 gal

Total Volume Purged: >110 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
12:31	START	SURGE	—	—	—	—	—	
1256	11.0	—	20.62	9.37	0.4	1716	7.45	Some sediment on bottom
1305	22.0	9.38'	19.98	8.11	46.8	2107	5.02	Water's clean will pump
1314	~33.0	—	19.96	7.66	53.1	2143	4.03	after this
1319	~44.0	9.82'	19.81	7.47	55.2	2157	2.93	Clear - crystal clear
1323	~55.0	—	19.92	7.41	56.0	2153	2.90	Pump out drum - so more vol.
1328	~66.0	9.83'	19.55	7.39	56.6	2159	3.03	btwn 55 & 66 taken
1332	~77.0	—	19.63	7.29	62.0	2163	2.83	
1337	~88.0	9.82'	19.76	7.29	60.1	2167	2.86	
1342	~99.0	—	19.63	7.28	59.2	2173	2.84	
1346	~110.0	9.37'	19.70	7.31	59.7	2167	2.81	
	END							

Remarks / Comments:

Completed By: Andrea Valdivia | Signature:

Reviewed By: | Date: November , 2009

09M-1683

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-1L

Date: 11/04/2009 / 11/05/09 Developed By: Andrea Valdivia

Weather: 11/04 Sunny, windy, hazy Recorded By: Andrea Valdivia
11/05 Partly cloudy, windy

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information seems meter is too sensitive - remeasure

Casing Material: PVC
Casing Diameter: 2"
Total Depth: 143.18' - same reading twice
Depth to Water: ~~9.31'~~ 9.32'
Water Column: 133.87'
Gallons/Foot: 0.16 gal/ft
Gallons in Well: 21.4 gal

Something is wrong - skip well for now (11/04)

Development Technique: Surge and purge
Screen Interval: From: 100' To: 105'
Pump Intake Setting:
Volumes to be Purged: ~10 casing volumes 214 gal
Total Volume Purged:
Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
11/05 1105	START	SURGE	—	—	—	—	—	
1155	20.0	9.38'	20.42	7.71	43.2	2045	0.92	Brown, silty, opaque
1204	45.0	—	20.00	7.57	40.9	2132	0.95	
1209	60.0	12.46'	19.89	7.48	39.1	2149	0.95	Clear
1214	80.0	—	19.80	7.33	39.7	2162	0.96	
1222	100.0	12.45'	19.80	7.31	41.1	2163	0.93	
1228	120.0	—	19.75	7.35	40.3	2169	0.95	
1235	140.0	12.48'	19.80	7.36	39.3	2169	0.94	
1240	160.0	—	19.72	7.35	40.1	2175	0.93	
1246	175.0	9.51'	19.73	7.35	39.9	2174	0.93	STABLE
	END							

Remarks / Comments:
Well is crooked - unable to use 10' bailer @ 9'. Using a 5' bailer (½ gal) for 10 gal then pump

Completed By: Andrea Valdivia Signature:
Reviewed By: Date: November , 2009

09M-1677

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-2S

Date: 11/04/2009 Developed By: Andrea Valdivia

Weather: Windy Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 20.13'

Depth to Water: 15.58'

Water Column: 4.55'

Gallons/Foot: 0.16

Gallons in Well: 0.73 gal

Final TD: 20.15'

Development Technique: Surge and purge

Screen Interval: From: 8' To: 18'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 7.3 gal

Total Volume Purged: 8 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
1433	START	SURGE	—	—	—	—	—	
1448	1.0	16.51'	18.98	7.29	68.3	2907	8.03	
1451	2.0	—	18.73	7.30	67.3	2832	6.09	
1453	3.0	17.96'	18.34	7.31	66.8	2731	5.82	
1501	4.0	—	18.39	7.31	6[illegible]4	2491	5.61	
1505	5.0	17.97'	18.29	7.29	68.3	2570	5.64	
1513	6.0	—	18.30	7.26	68.0	2441	5.71	
1519	7.0	17.68'	18.40	7.34	75.1	2473	5.86	> 5.86
1525	8.0	17.35'	18.35	7.29	74.9	2425	5.81	
	END							

Remarks / Comments:

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

09M-1678

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-3S

Date: 11/04/2009 Developed By: Andrea Valdivia

Weather: Windy, chilly, sun is out Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 20.18'

Depth to Water: 15.37'

Water Column: 4.81'

Gallons/Foot: 0.16 gal/ft

Gallons in Well: 0.77 gal

Final TD: 20.18'

Development Technique: Surge and purge

Screen Interval: From: 8' To: 18'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 7.7 gal

Total Volume Purged: 8 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
1556	START	SURGE	—	—	—	—	—	
1609	1.0	—	20.90	7.79	64.9	1995	6.13	
1611	2.0	16.95'	21.24	7.95	59.9	2026	4.16	
1614	3.0	—	20.74	7.93	59.6	1686	4.	3.90
1616	4.0	17.41'	21.02	7.93	59.5	1561	4.40	
1618	5.0	—	20.60	7.93	59.4	1474	5.07	
1622	6.0	16.68'	20.52	7.96	60.2	1241	~~4.40~~	4.40
1625	7.0	—	20.44	7.87	61.7	1183	4.53	
1627	8.0	16.68'	20.57	7.90	61.6	1147	4.36	
	END							

Remarks / Comments:

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

09M-1679

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-4S

Date: 11/04/2009 Developed By: Andrea Valdivia

Weather: Sunny, hazy, light wind Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		
Serial #:		

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 18.38'

Depth to Water: 13.34'

Water Column: 5.04'

Gallons/Foot: 0.16

Gallons in Well: 0.81 gal

Development Technique: Surge and purge

Screen Interval: From: 5' To: 15'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 8.1 gal

Total Volume Purged: 10 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

final depth = 18.42'

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	Turbidity (NTUs) / ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
0850	START	SURGE	~~20.22~~	~~7.26~~	~~29.4~~	~~2088~~	~~7.16~~	
0906	1.0	—	20.22	7.26	29.4	2088	7.16	Silty brown water
0909	2.0	13.75'	20.02	7.29	37.7	1830	4.61	
0912	3.0	—	20.21	7.33	39.6	1673	5.35	clearer, still brown
0914	4.0	14.11'	20.24	7.18	43.5	1540	5.65	
0917	5.0	—	20.19	7.24	45.1	1483	6.69	
0919	6.0	14.16'	20.44	7.17	48.8	1396	6.71	
0921	7.0	—	20.37	7.22	47.8	1300	~~7.02~~ 6.88	
0923	8.0	13.78'	20.58	7.18	50.7	1269	6.64	
0926	9.0	—	20.49	7.19	52.4	1233	6.81	
0928	10.0	13.95'	20.53	7.18	54.0	1199	6.77	Getting clearer
	END							

Remarks / Comments:

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

09M-1680

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-5S

Date: 11/05/2009 Developed By: Andrea Valdivia

Weather: Sunny, slight breeze, some clouds Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 20.11'

Depth to Water: 17.18'

Water Column: 2.93'

Gallons/Foot: 0.16 gal/ft

Gallons in Well: 0.47 gal

Final TD: 20.14'

Development Technique: Surge and purge

Screen Interval: From: 8' To: 18'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 4.7 gal

Total Volume Purged: 5.5 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
0947	START	SURGE	—	—	—	—	—	
1000	0.5	—	19.76	7.53	50.8	2229	2.58	Brown opaque
1002	1.0	17.63	19.67	7.56	50.4	2316	3.19	
1004	1.5	—	19.68	7.58	48.6	2351	2.69	
1005	2.0	17.67	19.66	7.58	48.3	2327	2.64	
1007	2.5	—	19.57	7.57	47.8	2287	2.70	
1008	3.0	17.75	19.61	7.56	48.7	2231	2.71	
1010	3.5	—	19.56	7.54	49.1	2179	2.36	
1012	4.0	17.77	19.65	7.54	48.8	2103	2.27	
1013	4.5	—	19.73	7.54	48.1	2054	2.28	
1015	5.0	17.82	19.72	7.55	48.0	2021	2.35	Still a bit murky
—	~~END~~	—	—	—	—	—	—	
1018	5.5	17.59	19.68	7.57	48.3	1991	2.39	
	END							

Remarks / Comments: DO is a little off toward end – but called it

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

09M-1684

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-5U

Date: 11/05/2009 Developed By: Andrea Valdivia

Weather: Sunny, slight wind, brisk, cirrus clouds Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 72.07'

Depth to Water: 17.20'

Water Column: 54.87'

Gallons/Foot: 0.16 gal/ft

Gallons in Well: 8.78 gal

Final TD: 72.27'

Development Technique: Surge and purge

Screen Interval: From: 60' To: 65'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 87.8 gal

Total Volume Purged: 90 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
0820	START	SURGE	—	—	—	—	—	
0855	9.0	17.65'	18.44	8.56	3.7	1527	2.83	Water is brown, but trans-
0903	~18.0	—	18.80	8.11	17.9	1841	1.79	luscent
0907	~30.0	17.66	18.62	7.73	27.8	1846	2.50	~~Clear~~ Clear
0911	~40.0	—	18.73	7.64	31.8	1867	1.94	
0914	~50.0	17.61	18.74	7.61	34.2	1852	2.16	
0917	~60.0	—	18.82	7.58	35.7	1864	1.84	
0921	~70.0	17.59	18.86	7.59	39.4	1861	1.89	
0924	~80.0	—	18.84	7.59	39.5	1867	1.85	
0928	~90.0	17.58	18.85	7.56	40.4	1864	1.86	
	END							

Remarks / Comments:

Well not straight enough for a 10' bailer near bottom - past 45'
Using 5' bailer for first casing volume - then pump

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

09M-1681

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-6S

Date: 11/06/2009 Developed By: Andrea Valdivia

Weather: Partly cloudy, warm Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 25.41'

Depth to Water: 18.61'

Water Column: 6.80'

Gallons/Foot: 0.16 gal/ft

Gallons in Well: 1.09 gal

Final TD: 27.41'

Development Technique: Surge and purge

Screen Interval: From: 5' To: 25'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 10.9 gal

Total Volume Purged: 11 gal

Pump on: Off:

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F/°C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
0914	START	SURGE	—	—	—	—	—	Brown, silty
0929	1.0	—	20.16	8.14	16.9	1749	3.04	
0931	2.0	24.85	19.56	8.09	19.3	1657	3.37	Need to let recharge
0942	3.0	~~22.80~~	19.31	7.86	26.2	1959	2.90	
0947	4.0	24.70	19.22	7.86	26.1	1894	2.90	Less murky
0953	5.0	24.70	19.17	7.83	27.3	1802	2.98	
0958	6.0	25.30	19.13	7.82	28.5	~~144~~ 1747	3.01	
1004	7.0	25.10	19.15	7.79	29.7	1673	3.05	
1010	8.0	25.35	19.15	7.71	32.5	1665	3.00	
1016	9.0	25.30	19.18	7.70	32.1	1617	2.97	
1023	10.0	25.15	19.20	7.67	32.8	1608	2.96	
1032	11.0	23.95	19.26	7.64	32.3	1597	2.90	STABLE! Yay!
	END							

Remarks / Comments:

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

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09M-1685

Well Development Log

Project Number: RC000746.0002.00007 | Task: Develop./Monitoring | Well ID: MW-6U

Date: 11/05/2009 | Developed By: Andrea Valdivia

Weather: Overcast | Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 79.68'

Depth to Water: ~~19.53'~~ 19.00'

Water Column: 60.68'

Gallons/Foot: 0.16 gal/ft

Gallons in Well: 9.71 gal

Final TD: 79.68'

Development Technique: Surge and purge

Screen Interval: From: 72' To: 77'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 97.1 gal

Total Volume Purged: 100 gal

Pump on: Off:

Well Casing Volumes (gal/ft): 2" = 0.16 | 3" = 0.37 | $3^1/_2$" = 0.50 | 4" = 0.65 | 6" = 1.46

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F (°C))	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
1300	START	SURGE	—	—	—	—	—	
1342	10.0	19.10'	20.10	7.73	29.2	1434	3.77	
1348	20.0	—	19.89	7.75	33.3	1560	3.50	
1402	30.0	20.11'	19.58	7.48	41.6	1893	1.32	Clear
1406	40.0	—	19.47	7.38	39.2	1969	1.37	
1409	50.0	20.10'	19.47	7.37	39.3	2015	1.06	
1412	60.0	—	19.48	7.39	38.1	2029	1.08	
1414	70.0	20.11'	19.52	7.38	38.8	2040	1.10	
1416	80.0	—	19.49	7.37	38.4	2037	1.03	
1419	90.0	20.11'	19.39	7.31	39.0	2067	1.08	
1423	100.0	20.11'	19.48	7.38	39.2	2081	1.02	STABLE
	END							

Remarks / Comments:

Pump after 20 gal

Completed By: Andrea Valdivia | Signature:

Reviewed By: | Date: November , 2009

09M-1686

ARCADIS

Well Development Log

Project Number: RC000746.0002.00007 Task: Develop./Monitoring Well ID: MW-6L

Date: 11/06/2009 Developed By: Andrea Valdivia

Weather: Partly cloudy, brisk Recorded By: Andrea Valdivia

Instrument Identification

	PID	Water Quality Meter(s)
Model		YSI 650 MDS
Serial #:		02D0578 BG

Purging Information

Casing Material: PVC

Casing Diameter: 2"

Total Depth: 108.87'

Depth to Water: 18.98'

Water Column: 89.69'

Gallons/Foot: 0.16 gal/ft

Gallons in Well: 14.35 gal

Development Technique: Surge and purge

Screen Interval: From: 100' To: 105'

Pump Intake Setting:

Volumes to be Purged: ~10 casing volumes 143.5 gal

Total Volume Purged:

Pump on: _____ Off: _____

Well Casing Volumes (gal/ft):	2" = 0.16	3" = 0.37
	$3^1/_2$" = 0.50	4" = 0.65
	6" = 1.46	

Field Parameter Measurements Taken During Purging

Time	Volume Purged (gallons)	DTW (ft)	Temp (°F °C)	pH (SI Units)	~~Turbidity (NTUs)~~ ORP	Spec Cond (µmhos/cm)	DO mg/L	Comments / Observations
0727	START	SURGE	—	—	—	—	—	
0801	15.0	—	19.88	8.27	-9.3	1656	385	Brownish, mostly clear
0815	30.0	19.86	19.10	8.10	13.5	1798	1.22	
0820	45.0	—	19.58	8.04	16.9	1887	0.62	Clear
0826	60.0	19.81	19.65	8.03	16.8	1971	0.70	
0830	75.0	—	19.59	7.97	18.6	1990	0.51	
0835	90.0	19.80	19.68	7.94	19.1	2012	0.55	
0839	105.0	—	19.64	7.94	19.6	2042	0.56	
0845	120.0	19.80	19.61	7.88	20.6	2063	0.61	
0851	135.0	—	19.63	7.89	19.8	2080	0.58	
0857	150.0	18.06	19.66	7.83	20.2	2101	0.57	
	END							

Remarks / Comments:

Pump after 15 gal

Completed By: Andrea Valdivia Signature:

Reviewed By: Date: November , 2009

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Appendix D

Groundwater Sampling Logs

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-1S

Weather Cool Sampling Time: Begin 9:00 End 9:15

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 9.33

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 9:00

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 9:00 Depth to Water 9.33 Color Cloudy Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-1U

Weather Cool Sampling Time: Begin 10:52 End 11:00

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 9.57

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2"

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 10:55

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 10:55 Depth to Water 9.57 Color Cloudy Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-1L

Weather Cool Sampling Time: Begin 10:38 End 10:50

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 9.36

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 10:40

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 10:40 Depth to Water 9.36 Color Clear Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-2S

Weather Cool Sampling Time: Begin 11:10 End 11:20

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 16.41

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 11:15

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 11:15 Depth to Water 16.41 Color Tan Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-3S

Weather Cool Sampling Time: Begin 12:20 End 12:30

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 15.62

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 12:25

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method BAILER

Actual Gallons Purged Prior to Sampling

Time 12:25 Depth to Water 15.62 Color BRN Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-4S

Weather Cool Sampling Time: Begin 8:32 End 8:55

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Diameter of Casing 2

Depth to Water Below MP 13.32

Calculated Gallons Purged Prior to Sampling

Water Column in Well

Gallons per Foot .16

Gallons in Well

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 8:35 Sample Time

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
8:35			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Grab Bailer

Actual Gallons Purged Prior to Sampling

Time 8:35 Depth to Water 13.32 Color cloudy Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-5S

Weather Cool Sampling Time: Begin 12:47 End 13:00

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 17.39

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 12:50

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 12:50 Depth to Water 17.39 Color Tan Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-5U

Weather Cool Sampling Time: Begin 12:35 End 12:45

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 17.40

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 12:40

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 12:40 Depth to Water 17.40 Color Clear Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-6S

Weather Cool Sampling Time: Begin 11:52 End 12:05

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 18.65

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 11:55

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 11:52 Depth to Water 18.65 Color TAN Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-6U

Weather Cool Sampling Time: Begin 11:46 End 11:52

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Depth to Water Below MP 19.10

Water Column in Well

Gallons per Foot .16

Gallons in Well

Diameter of Casing 2

Calculated Gallons Purged Prior to Sampling

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other Bailer

Field Parameters

Start Time 11:50

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 11:50 Depth to Water 19.10 Color Clear Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

Water Sampling Log

Project Number RC000746.0002.7 Date 11/13/09

Project Name PG&E Radback Well Number RAD-MW-6L

Weather Cool Sampling Time: Begin 11:27 End 11:45

Samplers Name GC

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP

Diameter of Casing 2

Depth to Water Below MP 19.05

Calculated Gallons Purged Prior to Sampling

Water Column in Well

Gallons per Foot .16

Gallons in Well

Sampling Pump Intake Setting (feet below measuring point)

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size

Disposable Bailer ☒ Submersible Pump ☐ size 2

Other

Field Parameters

Start Time 11:30

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x					
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Bailer

Actual Gallons Purged Prior to Sampling

Time 11:30 Depth to Water 19.05 Color Clear Other

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

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Appendix E

Analytical Results

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Appendix F

Surveyor Data

Appendix F - Surveyor Coordinates

Well Number	Latitude	Longitude	Latitude					Longitude				
MW-1L	38.0109715	-121.7495177	38	0.0109715	0.65829	0.65829	39.4974	-121	-0.7495177	-44.971062	-0.97106	-58.2637
MW-1S	38.0109707	-121.7495687	38	0.0109707	0.658242	0.658242	39.49452	-121	-0.7495687	-44.974122	-0.97412	-58.4473
MW-1U	38.0109706	-121.7494759	38	0.0109706	0.658236	0.658236	39.49416	-121	-0.7494759	-44.968554	-0.96855	-58.1132
MW-2S	38.0108964	-121.7476699	38	0.0108964	0.653784	0.653784	39.22704	-121	-0.7476699	-44.860194	-0.86019	-51.6116
MW-3S	38.0108344	-121.7457465	38	0.0108344	0.650064	0.650064	39.00384	-121	-0.7457465	-44.74479	-0.74479	-44.6874
MW-4S	38.0101352	-121.7485748	38	0.0101352	0.608112	0.608112	36.48672	-121	-0.7485748	-44.914488	-0.91449	-54.8693
MW-5S	38.0100770	-121.7457860	38	0.0100770	0.60462	0.60462	36.2772	-121	-0.7457860	-44.74716	-0.74716	-44.8296
MW-5U	38.0100792	-121.7458098	38	0.0100792	0.604752	0.604752	36.28512	-121	-0.7458098	-44.748588	-0.74859	-44.9153
MW-6L	38.0096099	-121.7470387	38	0.0096099	0.576594	0.576594	34.59564	-121	-0.7470387	-44.822322	-0.82232	-49.3393
MW-6S	38.0096093	-121.7469884	38	0.0096093	0.576558	0.576558	34.59348	-121	-0.7469884	-44.819304	-0.8193	-49.1582
MW-6U	38.0096089	-121.7470116	38	0.0096089	0.576534	0.576534	34.59204	-121	-0.7470116	-44.820696	-0.8207	-49.2418
			deg	deg %	min	min %	sec	deg	deg %	min	min %	sec

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Appendix G

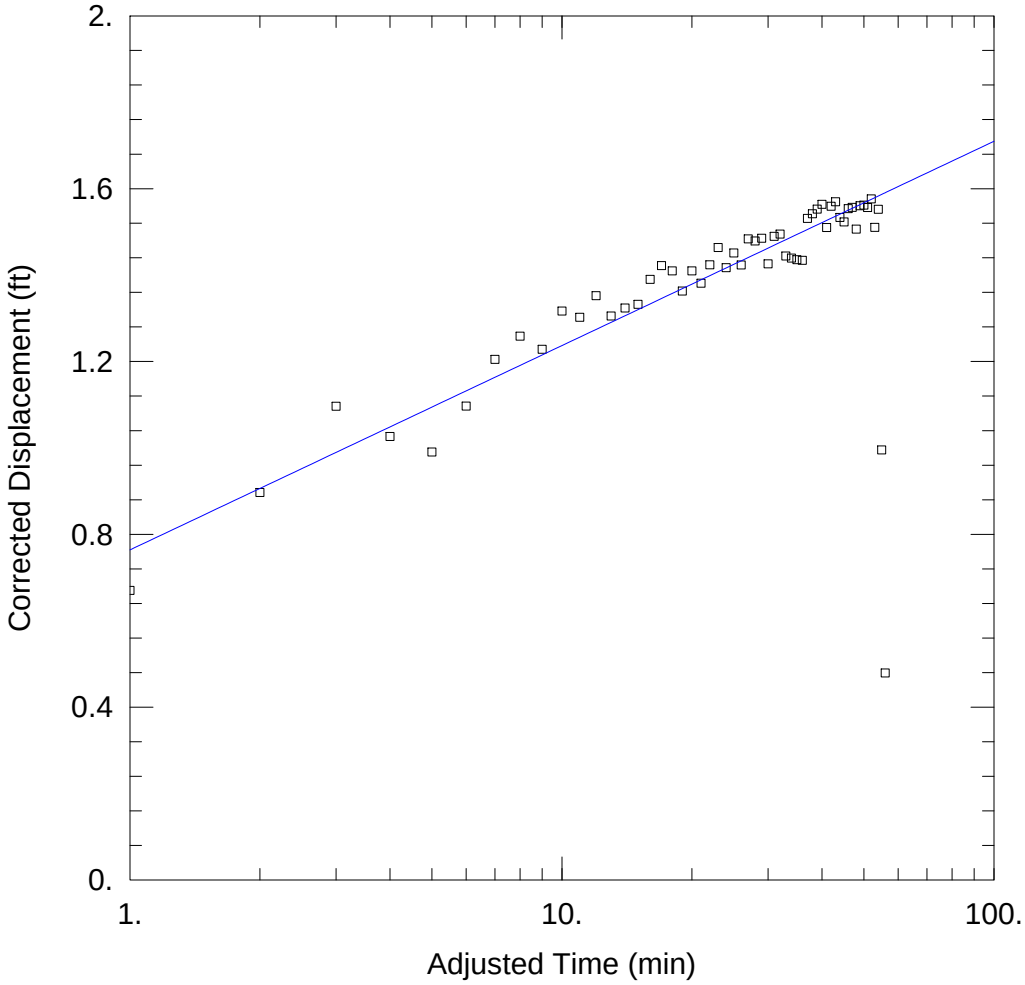
Hydrogeologic Data and Analysis

Hydraulic Conductivity Calculation
Specific Capacity Method

Radback Parcel
6000 Bridgehead Road
Oakley, California

Well ID	Aquifer Type: 1 for confined; 0 for unconfined.	If Aquifer Type is 0, do you want to make drawdown correction?	Storativity (see ReadMe First)	Pumping Period (minute)	Water Removed (Click to toggle b/w Gallon and Liter) Gallon	Initial Water level (ft) below Measurement Point	Final Water level (ft) below Measurement Point	SandPack Top(ft, bgs)	SandPack Bottom(ft, bgs)	SandPack Porosity	Total Well Depth (ft, bgs)	Well Casing Diameter (inch)	Well Borehole Diameter (inch)	Reference Point Elevation (ft, ags)	Water Removed from Well Storage (click to toggle b/w gallon and liter) Gallon	Water Removed from Sandpack (click to toggle b/w gallon and liter) Gallon	Water Removed from Aquifer (click to toggle b/w gallon and liter) Gallon	K (click to toggle b/w ft/day and cm/sec) cm/sec
MW-1S	0	n	0.001	55	35.25	9.31	11.62	4	15	0.3	15	2	8	2.38	0.376882959	1.695973316	33.17714373	0.00182546
MW-1U	1	n	0.005	36	129.7	9.54	10.22	68	77	0.3	77	2	8	2.57	0.110943901	0	129.5890561	0.036615581
MW-1L	1	n	0.005	51	185	9.27	12.70	97	140	0.3	140	2	8	2.37	0.559614091	0	184.4403859	0.001340539
MW-2S	0	n	0.001	39	3.5	16.31	17.25	8	18	0.3	18	2	8	2.91	0.153363628	0.690136328	2.656500044	0.00073303
MW-3S	0	n	0.001	46	25.25	15.57	16.01	6	18	0.3	18	2	8	2.2	0.07178723	0.323042536	24.85517023	0.017131327
MW-4S	0	n	0.001	40	13.6	13.30	14.10	4	15	0.3	15	2	8	2.27	0.130522237	0.587350066	12.8821277	0.005790121
MW-5S	0	n	0.001	46	6.1	17.37	17.61	6	18	0.3	18	2	8	2.06	0.039156671	0.17620502	5.884638309	0.01181382
MW-5U	1	n	0.005	37	181.625	17.37	17.8	57	65	0.3	67	2	8	1.95	0.070155702	0	181.5548443	0.095529457
MW-6S	0	n	0.001	52	4.7	18.68	19.95	4	25	0.3	25	2	8	2.65	0.207204051	0.93241823	3.560377719	0.000279381
MW-6U	1	n	0.005	59	204.39	19.04	20.23	69.5	70.5	0.3	76.5	2	8	3.1	0.194151827	0	204.1958482	0.179233097
MW-6L	1	n	0.005	37	113.62	18.98	19.86	98	105.5	0.3	105.5	2	8	1.2	0.143574461	0	113.4764255	0.027844949

Notes:
Specific capacity test reduction based on technique described in Walton, W.C. 1962. Selected Analytical Methods for Well and Aquifer Evaluation, Illinois State Water Survey, Bulletin 19.



MW-1S

Data Set: G:\...\MW-1S.aqt
Date: 11/18/09 Time: 10:42:19

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-1S
Test Date: 11/10/2009

AQUIFER DATA

Saturated Thickness: 8.07 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
New Well	0	0

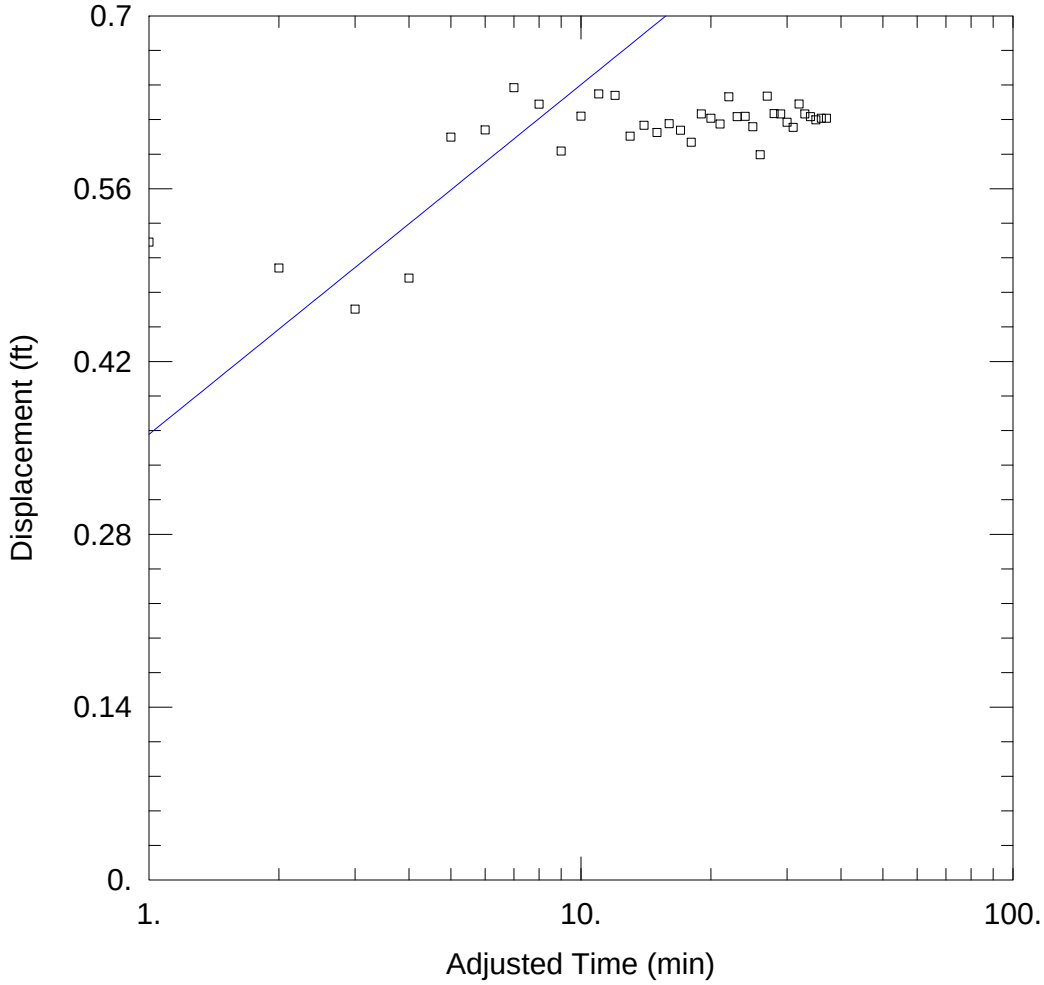
Observation Wells

Well Name	X (ft)	Y (ft)
New Well	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.0006043 ft^2/sec S = 0.2845



MW-1U

Data Set: G:\...\MW-1U.aqt
Date: 11/19/09 Time: 12:32:42

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-1U
Test Date: 11/10/2009

AQUIFER DATA

Saturated Thickness: 5. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-1U	0	0

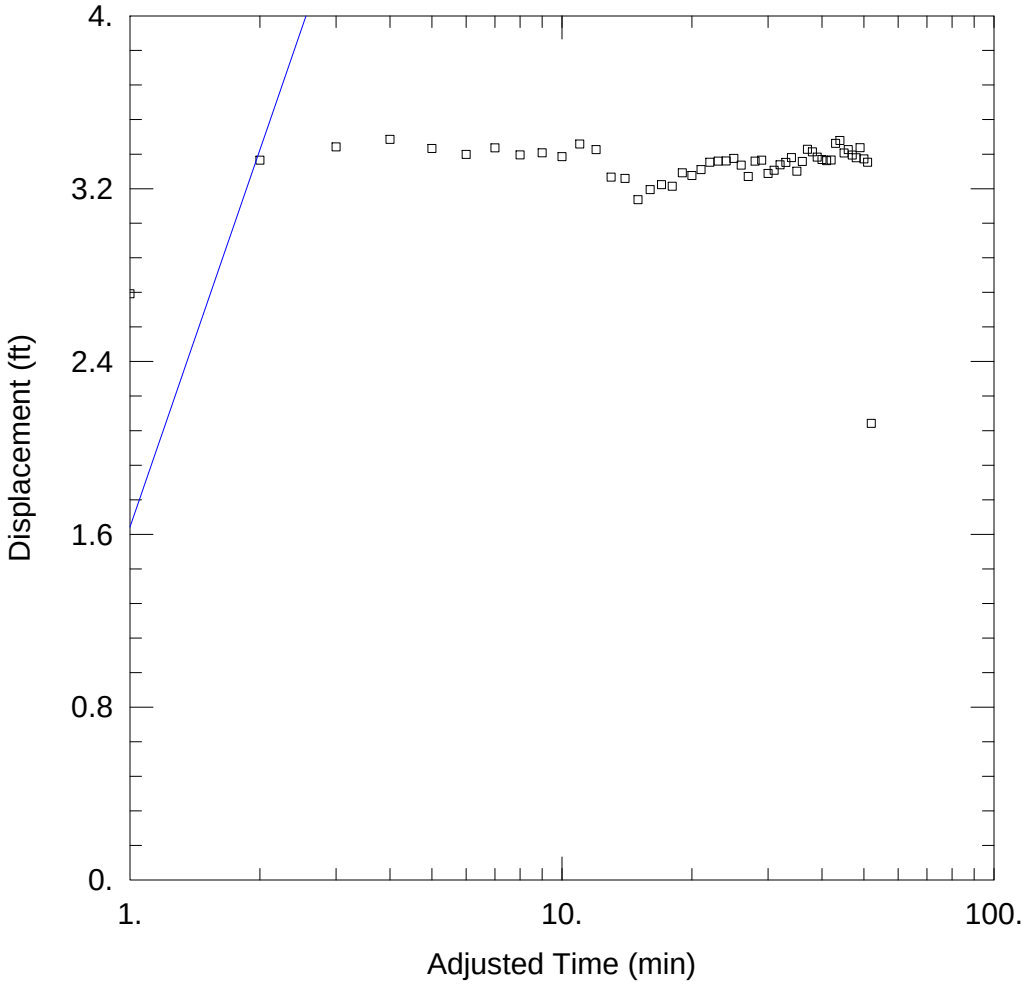
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-1U	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.005187 ft^2/sec S = 5.358



MW-1L

Data Set: G:\...\MW-1L.aqt
Date: 11/19/09 Time: 12:28:42

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-1L
Test Date: 11/11/2009

AQUIFER DATA

Saturated Thickness: 5. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-1L	0	0

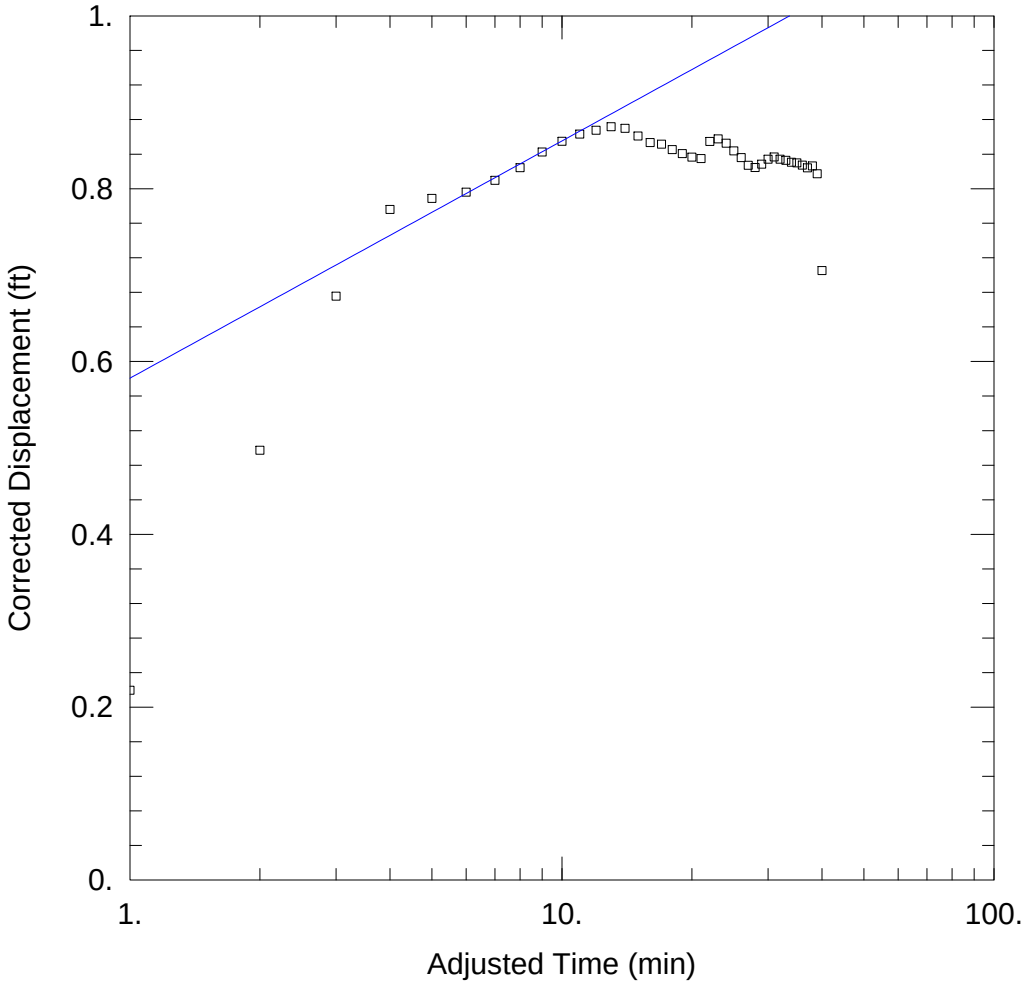
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-1L	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.0002531 ft^2/sec S = 2.572



MW-2S

Data Set: G:\...\MW-2S.aqt
Date: 11/18/09 Time: 09:51:12

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-2S
Test Date: 11/10/2009

AQUIFER DATA

Saturated Thickness: 4.8 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-2S	0	0

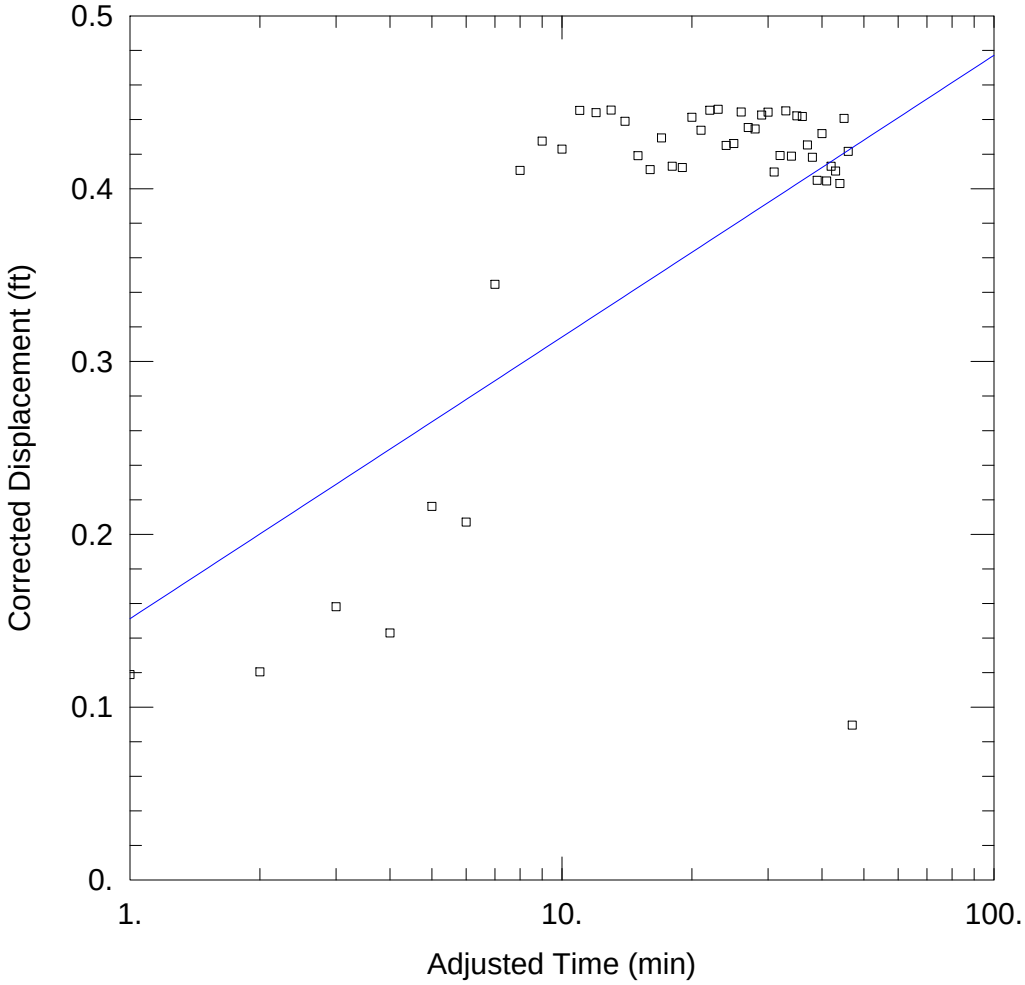
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-2S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.0001487 ft^2/sec S = 0.02216



MW-3S

Data Set: G:\...\MW-3S.aqt
Date: 11/19/09 Time: 12:36:28

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-3S
Test Date: 11/10/2009

AQUIFER DATA

Saturated Thickness: 4.63 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-3S	0	0

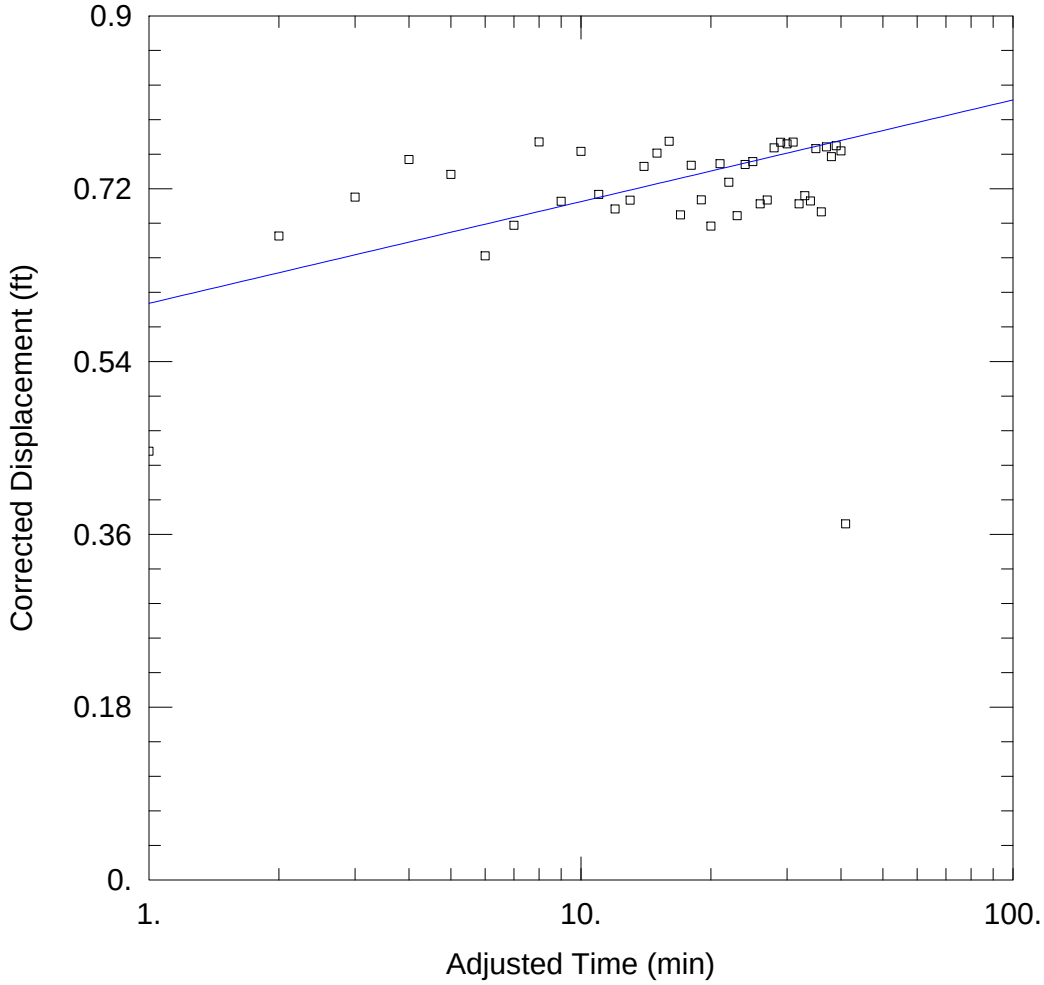
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-3S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.001252 ft^2/sec S = 2.875



MW-4S

Data Set: G:\...\MW-4S.aqt
Date: 11/19/09 Time: 12:33:40

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-4S
Test Date: 11/11/2009

AQUIFER DATA

Saturated Thickness: 3.97 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-4S	0	0

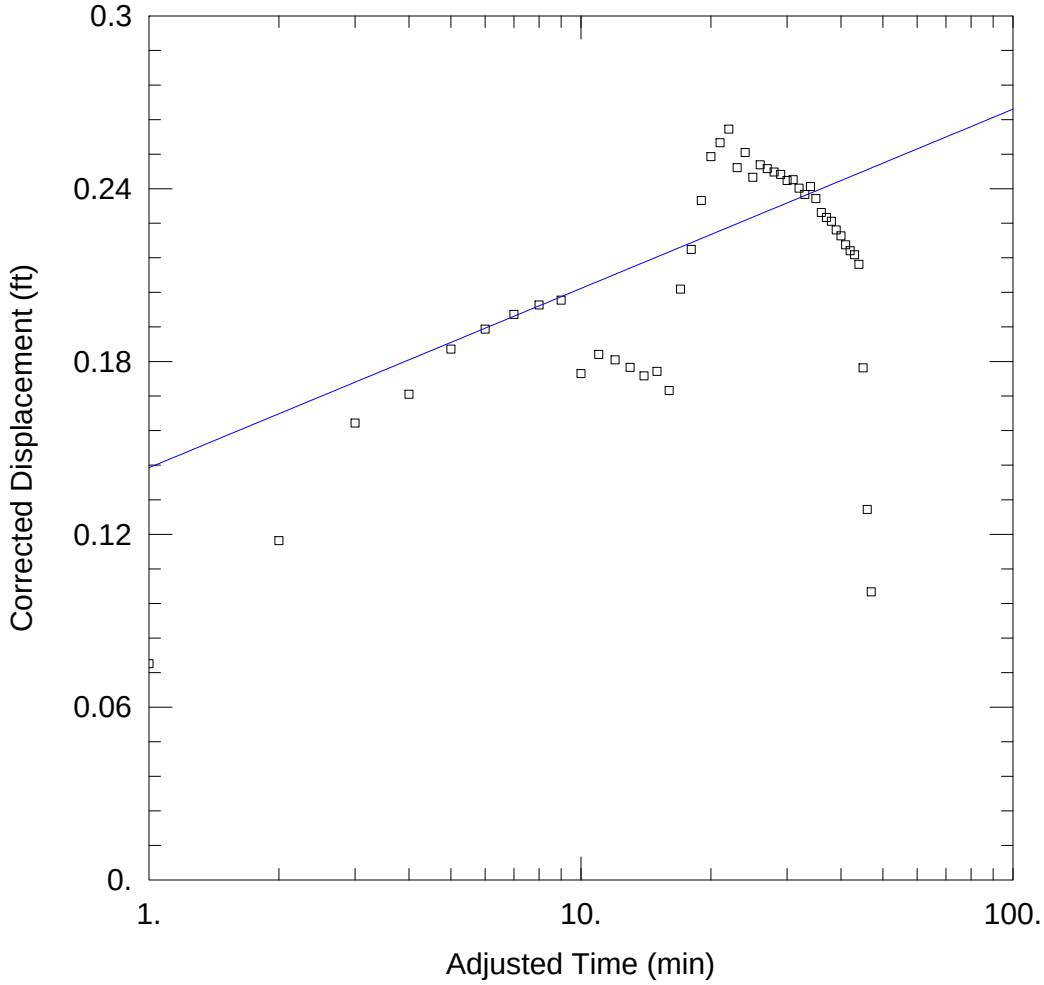
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-4S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.001156 ft^2/sec S = 4.788E-5



MW-5S

Data Set: G:\...\MW-5S.aqt
Date: 11/19/09 Time: 12:34:04

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-5S
Test Date: 11/10/2009

AQUIFER DATA

Saturated Thickness: 2.69 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-5S	0	0

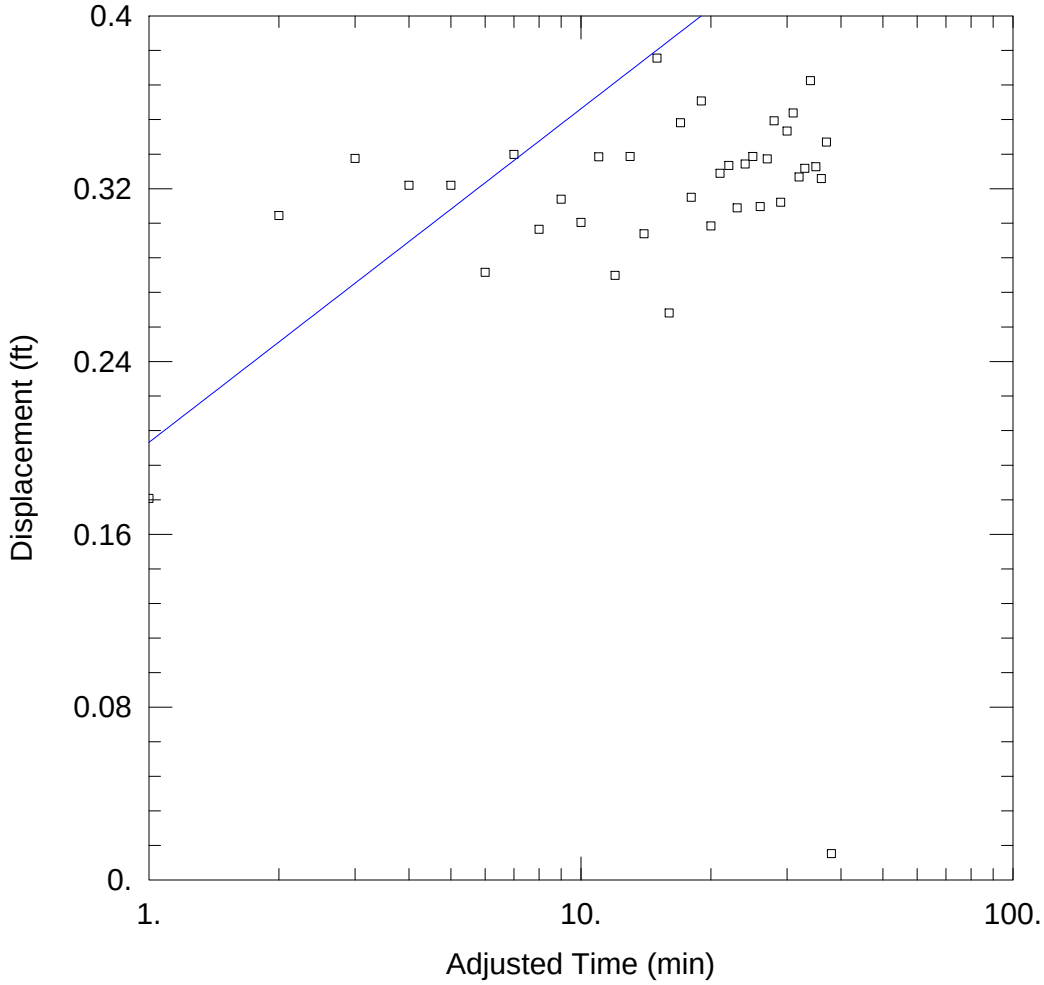
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-5S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.000656 ft^2/sec S = 0.06387



MW-5U

Data Set: G:\...\MW-5U.aqt
Date: 11/19/09 Time: 12:37:38

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-5U
Test Date: 11/12/2009

AQUIFER DATA

Saturated Thickness: 5. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-5U	0	0

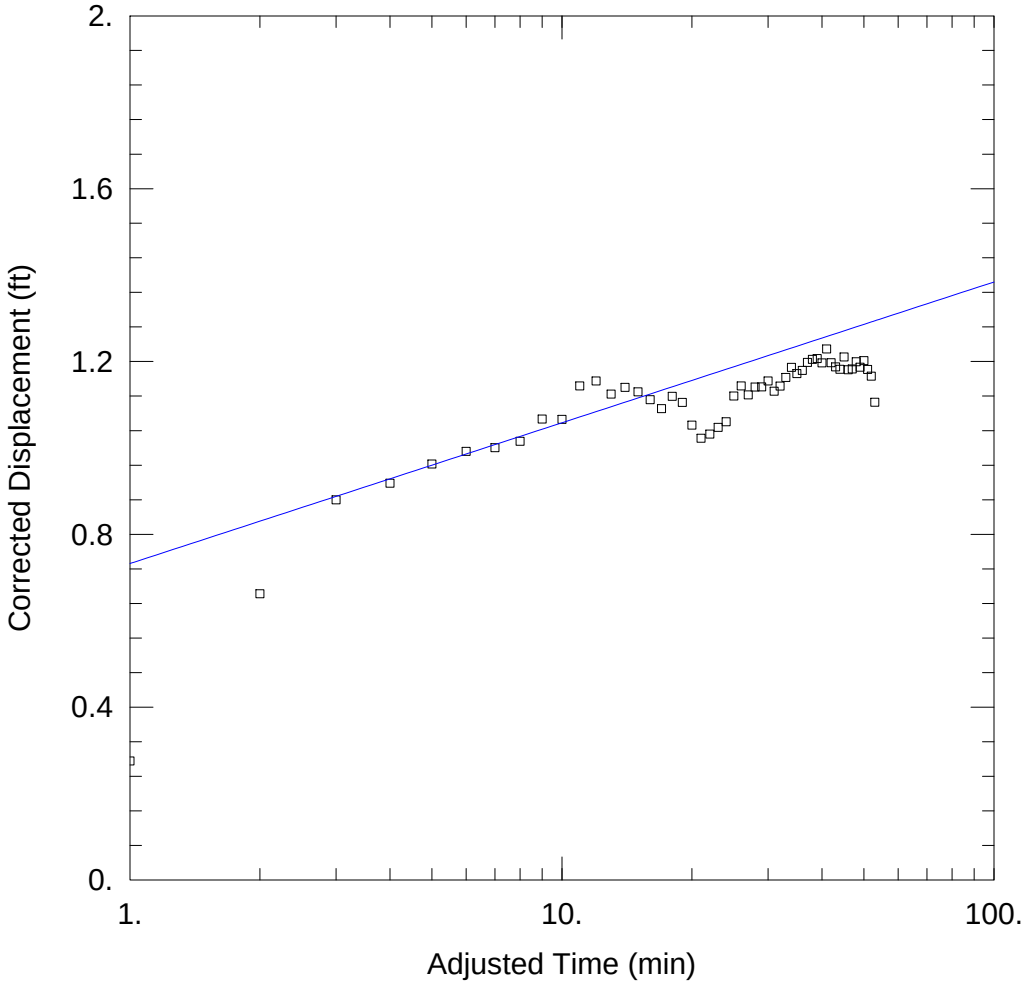
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-5U	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.01295 ft^2/sec S = 12.28



MW-6S

Data Set: G:\...\MW-6S.aqt
Date: 11/19/09 Time: 12:33:08

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-6S
Test Date: 11/11/2009

AQUIFER DATA

Saturated Thickness: 8.97 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-6S	0	0

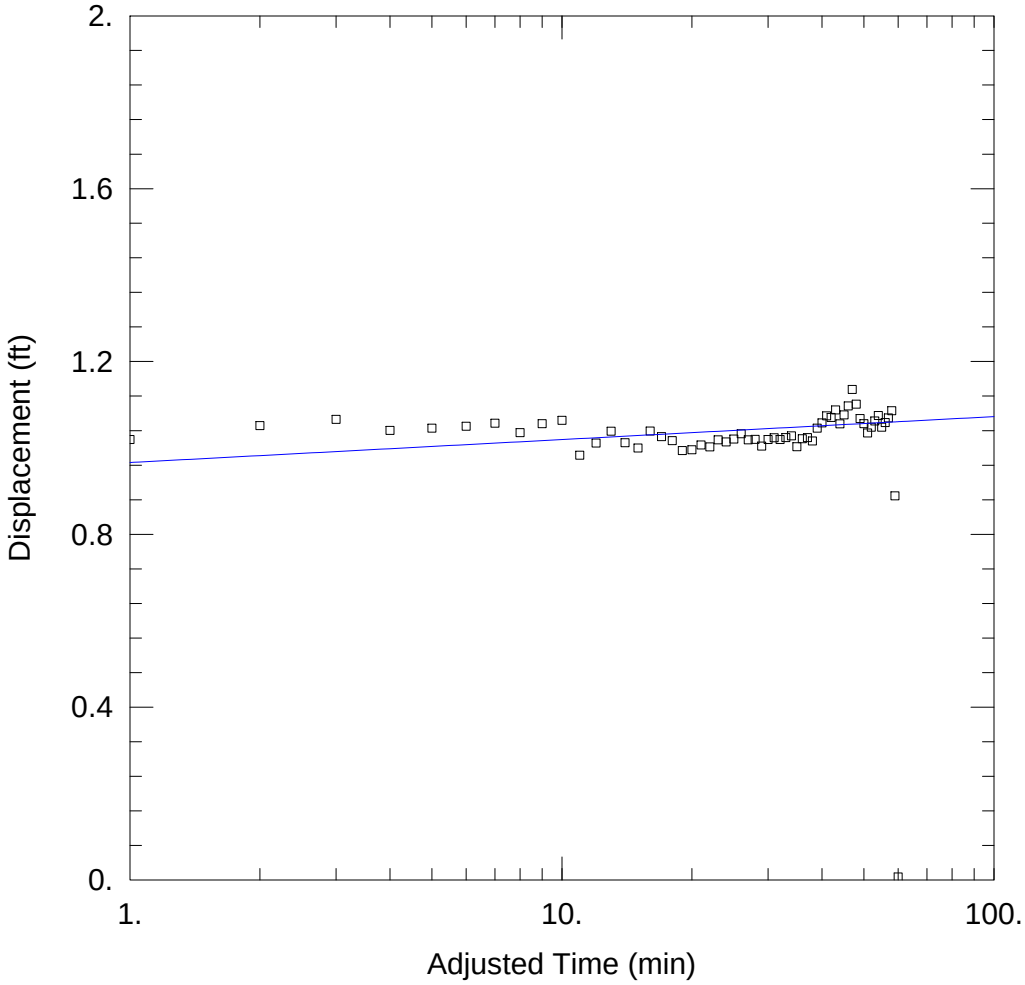
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-6S	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob

T = 0.0001253 ft^2/sec S = 0.01376



MW-6U

Data Set: G:\...\MW-6U.aqt
Date: 11/19/09 Time: 12:30:12

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-6U
Test Date: 11/11/2009

AQUIFER DATA

Saturated Thickness: 5. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-6U	0	0

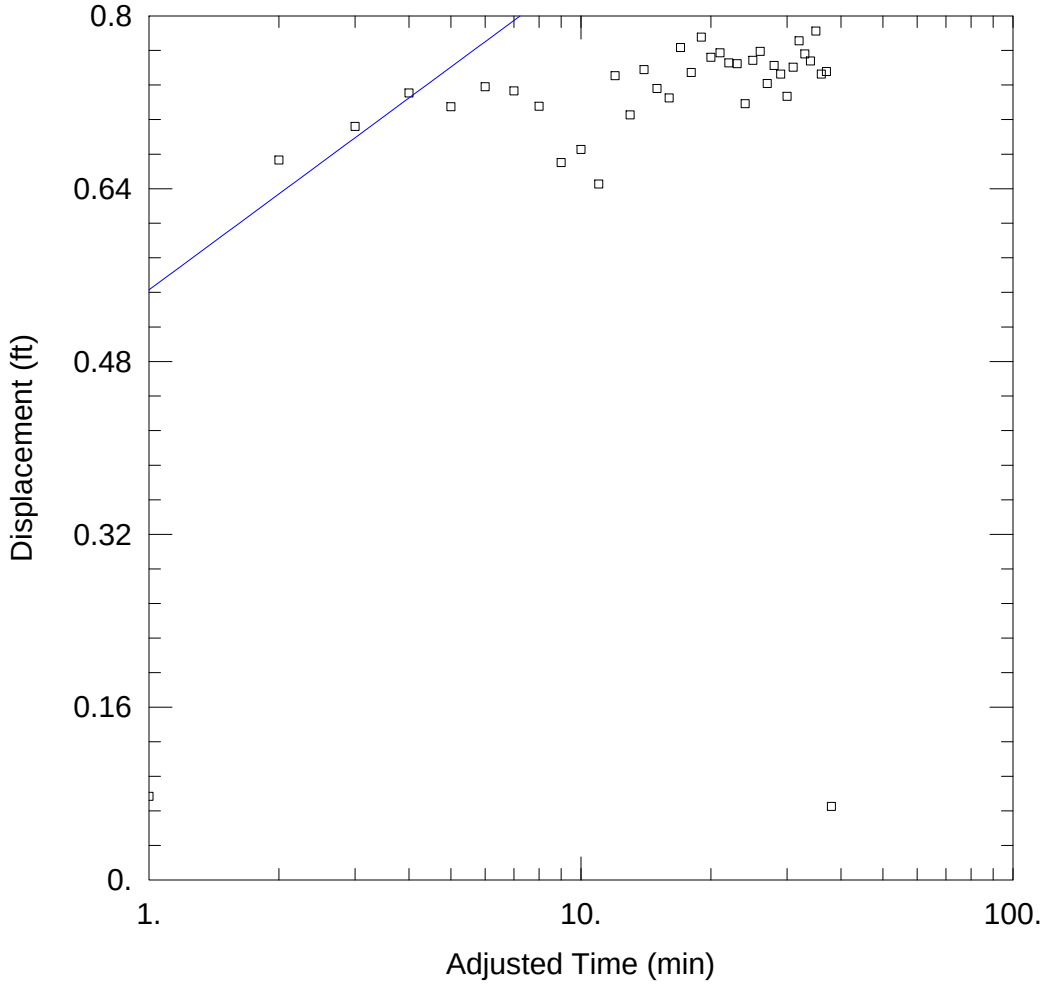
Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-6U	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.02689 ft^2/sec S = 3.426E-16



MW-6L

Data Set: G:\...\MW-6L.aqt
Date: 11/19/09 Time: 12:16:31

PROJECT INFORMATION

Company: ARCADIS
Client: PG&E
Project: RC000746.0001
Location: Oakley, CA
Test Well: MW-6L
Test Date: 11/12/2009

AQUIFER DATA

Saturated Thickness: 4.5 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW-6L	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW-6L	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Cooper-Jacob

T = 0.004286 ft^2/sec S = 1.175

Calscience Environmental Laboratories, Inc.

November 02, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1536**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/20/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/20/09
Work Order No: 09-10-1536
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@5ft	**09-10-1536-1-A**	**10/19/09 10:43**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:17**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 1:59:01 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.08	0.750	1		Nickel	20.1	0.250	1	
Beryllium	0.316	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.8	0.250	1		Thallium	ND	0.750	1	
Copper	7.62	0.500	1		Zinc	22.3	1.00	1	
Lead	3.62	0.500	1						

SB-26@8inches	**09-10-1536-2-A**	**10/19/09 10:53**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:24**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:01:16 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	4.57	0.750	1		Mercury	ND	0.0835	1	
Arsenic	0.922	0.750	1		Nickel	22.6	0.250	1	
Beryllium	1.12	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	99.6	0.250	1		Thallium	ND	0.750	1	
Copper	7.02	0.500	1		Zinc	21.8	1.00	1	
Lead	6.31	0.500	1						

SB-27@8inches	**09-10-1536-3-A**	**10/19/09 11:43**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:33**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:03:32 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	2.10	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.25	0.750	1		Nickel	18.0	0.250	1	
Beryllium	0.686	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	62.6	0.250	1		Thallium	ND	0.750	1	
Copper	6.40	0.500	1		Zinc	20.8	1.00	1	
Lead	7.12	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/20/09
Work Order No: 09-10-1536
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@1ft	**09-10-1536-4-A**	**10/19/09 11:43**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:35**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:05:48 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.79	0.750	1		Nickel	14.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.8	0.250	1		Thallium	ND	0.750	1	
Copper	7.45	0.500	1		Zinc	24.8	1.00	1	
Lead	3.83	0.500	1						

SB-30@8inches	**09-10-1536-5-A**	**10/19/09 12:04**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:38**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:12:37 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.17	0.750	1		Nickel	14.6	0.250	1	
Beryllium	0.378	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	29.7	0.250	1		Thallium	ND	0.750	1	
Copper	5.35	0.500	1		Zinc	17.1	1.00	1	
Lead	5.15	0.500	1						

SB-31@1ft	**09-10-1536-6-A**	**10/19/09 12:19**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:40**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:14:53 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.38	0.750	1		Nickel	16.0	0.250	1	
Beryllium	0.452	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	34.5	0.250	1		Thallium	ND	0.750	1	
Copper	5.77	0.500	1		Zinc	19.0	1.00	1	
Lead	6.50	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/20/09
Work Order No: 09-10-1536
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-32@1ft	**09-10-1536-7-A**	**10/19/09 12:23**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:42**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:17:07 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.99	0.750	1		Nickel	13.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	10.4	0.250	1		Thallium	ND	0.750	1	
Copper	6.03	0.500	1		Zinc	18.8	1.00	1	
Lead	4.15	0.500	1						

SB-16@8inches	**09-10-1536-8-A**	**10/19/09 12:46**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:45**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:19:17 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.25	0.750	1		Nickel	12.8	0.250	1	
Beryllium	0.332	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	27.0	0.250	1		Thallium	ND	0.750	1	
Copper	5.49	0.500	1		Zinc	18.7	1.00	1	
Lead	7.15	0.500	1						

SB-33@1ft	**09-10-1536-9-A**	**10/19/09 13:03**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:47**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:21:28 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.44	0.750	1		Nickel	15.9	0.250	1	
Beryllium	0.286	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.5	0.250	1		Thallium	ND	0.750	1	
Copper	7.89	0.500	1		Zinc	24.9	1.00	1	
Lead	4.23	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/20/09
Work Order No: 09-10-1536
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29@1ft	**09-10-1536-10-A**	**10/19/09 13:17**	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09 19:49**	**091021L04**

Comment(s): -Mercury was analyzed on 10/22/2009 2:23:39 PM with batch 091022L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.68	0.750	1		Nickel	16.1	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.1	0.250	1		Thallium	ND	0.750	1	
Copper	7.63	0.500	1		Zinc	23.3	1.00	1	
Lead	4.17	0.500	1						

Method Blank	**099-04-007-6,611**	**N/A**	**Solid**	**Mercury**	**10/22/09**	**10/22/09 13:47**	**091022L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,853**	**N/A**	**Solid**	**ICP 5300**	**10/21/09**	**10/24/09 12:58**	**091021L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@5ft	**09-10-1536-1-B**	**10/19/09 10:43**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 19:18**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@8inches	**09-10-1536-2-B**	**10/19/09 10:53**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 19:33**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27@8inches	**09-10-1536-3-B**	**10/19/09 11:43**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 19:49**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@1ft	**09-10-1536-4-B**	**10/19/09 11:43**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 20:05**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-30@8inches	**09-10-1536-5-B**	**10/19/09 12:04**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 20:20**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

SB-31@1ft	**09-10-1536-6-B**	**10/19/09 12:19**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 20:36**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

SB-32@1ft	**09-10-1536-7-B**	**10/19/09 12:23**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 20:51**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	61-145	

SB-16@8inches	**09-10-1536-8-B**	**10/19/09 12:46**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 21:07**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-33@1ft	**09-10-1536-9-B**	**10/19/09 13:03**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 21:23**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29@1ft	**09-10-1536-10-B**	**10/19/09 13:17**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 21:38**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-025-881**	**N/A**	**Solid**	**GC 46**	**10/21/09**	**10/22/09 18:00**	**091021B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@8inches	**09-10-1536-2-A**	**10/19/09 10:53**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-27@8inches	**09-10-1536-3-A**	**10/19/09 11:43**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-32@1ft	**09-10-1536-7-A**	**10/19/09 12:23**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-16@8inches	**09-10-1536-8-A**	**10/19/09 12:46**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-29@1ft	**09-10-1536-10-A**	**10/19/09 13:17**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,272**	**N/A**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@5ft	**09-10-1536-1-A**	**10/19/09 10:43**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 15:45**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-135		2,4,5,6-Tetrachloro-m-Xylene	96	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@8inches	**09-10-1536-2-A**	**10/19/09 10:53**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 16:12**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	1.8	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	81	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27@8inches	**09-10-1536-3-A**	**10/19/09 11:43**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 16:40**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	2.6	5.0	1.6	1	J
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	3.3	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	73	50-135		2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@1ft	**09-10-1536-4-A**	**10/19/09 11:43**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 17:07**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	81	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-30@8inches	**09-10-1536-5-A**	**10/19/09 12:04**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 17:34**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	50-135		2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

SB-31@1ft	**09-10-1536-6-A**	**10/19/09 12:19**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 18:01**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.0	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	82	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-32@1ft	**09-10-1536-7-A**	**10/19/09 12:23**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 18:29**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	69	50-135		2,4,5,6-Tetrachloro-m-Xylene	68	50-135	

SB-16@8inches	**09-10-1536-8-A**	**10/19/09 12:46**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 18:56**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	50-135		2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-33@1ft	**09-10-1536-9-A**	**10/19/09 13:03**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 19:23**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-135		2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

SB-29@1ft	**09-10-1536-10-A**	**10/19/09 13:17**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 19:50**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	82	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-753**	**N/A**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 13:29**	**091022L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-135		2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@5ft	**09-10-1536-1-A**	**10/19/09 10:43**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 01:57**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	118	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@8inches	**09-10-1536-2-A**	**10/19/09 10:53**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 02:43**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	147	30-130	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27@8inches	**09-10-1536-3-A**	**10/19/09 11:43**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 03:28**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	155	30-130	2

SB-28@1ft	**09-10-1536-4-A**	**10/19/09 11:43**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 04:14**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	146	30-130	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-30@8inches	**09-10-1536-5-A**	**10/19/09 12:04**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 05:00**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	136	30-130	2

SB-31@1ft	**09-10-1536-6-A**	**10/19/09 12:19**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 05:46**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	147	30-130	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-32@1ft	**09-10-1536-7-A**	**10/19/09 12:23**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 06:31**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	142	30-130	2

SB-16@8inches	**09-10-1536-8-A**	**10/19/09 12:46**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 07:17**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	155	30-130	2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-33@1ft	**09-10-1536-9-A**	**10/19/09 13:03**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 08:03**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	150	30-130	2

SB-29@1ft	**09-10-1536-10-A**	**10/19/09 13:17**	**Solid**	**GC 35**	**10/22/09**	**10/23/09 08:49**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	169	30-130	2				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-465-10**	**N/A**	**Solid**	**GC 35**	**10/22/09**	**10/22/09 22:08**	**091022L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	53	30-130					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@5ft	**09-10-1536-1-E**	**10/19/09 10:43**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 19:32**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	71-137		1,2-Dichloroethane-d4	104	58-160	
1,4-Bromofluorobenzene	101	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26@8inches	**09-10-1536-2-E**	**10/19/09 10:53**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 19:59**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	0.998		c-1,3-Dichloropropene	ND	1.0	0.998	
Benzene	ND	1.0	0.998		t-1,3-Dichloropropene	ND	2.0	0.998	
Bromobenzene	ND	1.0	0.998		Ethylbenzene	ND	1.0	0.998	
Bromochloromethane	ND	2.0	0.998		2-Hexanone	ND	20	0.998	
Bromodichloromethane	ND	1.0	0.998		Isopropylbenzene	ND	1.0	0.998	
Bromoform	ND	5.0	0.998		p-Isopropyltoluene	ND	1.0	0.998	
Bromomethane	ND	20	0.998		Methylene Chloride	ND	10	0.998	
2-Butanone	ND	20	0.998		4-Methyl-2-Pentanone	ND	20	0.998	
n-Butylbenzene	ND	1.0	0.998		Naphthalene	ND	10	0.998	
sec-Butylbenzene	ND	1.0	0.998		n-Propylbenzene	ND	2.0	0.998	
tert-Butylbenzene	ND	1.0	0.998		Styrene	ND	1.0	0.998	
Carbon Disulfide	ND	10	0.998		1,1,1,2-Tetrachloroethane	ND	1.0	0.998	
Carbon Tetrachloride	ND	1.0	0.998		1,1,2,2-Tetrachloroethane	ND	2.0	0.998	
Chlorobenzene	ND	1.0	0.998		Tetrachloroethene	ND	1.0	0.998	
Chloroethane	ND	2.0	0.998		Toluene	ND	1.0	0.998	
Chloroform	ND	1.0	0.998		1,2,3-Trichlorobenzene	ND	2.0	0.998	
Chloromethane	ND	20	0.998		1,2,4-Trichlorobenzene	ND	2.0	0.998	
2-Chlorotoluene	ND	1.0	0.998		1,1,1-Trichloroethane	ND	1.0	0.998	
4-Chlorotoluene	ND	1.0	0.998		1,1,2-Trichloroethane	ND	1.0	0.998	
Dibromochloromethane	ND	2.0	0.998		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.998	
1,2-Dibromo-3-Chloropropane	ND	5.0	0.998		Trichloroethene	ND	2.0	0.998	
1,2-Dibromoethane	ND	1.0	0.998		Trichlorofluoromethane	ND	10	0.998	
Dibromomethane	ND	1.0	0.998		1,2,3-Trichloropropane	ND	2.0	0.998	
1,2-Dichlorobenzene	ND	1.0	0.998		1,2,4-Trimethylbenzene	ND	2.0	0.998	
1,3-Dichlorobenzene	ND	1.0	0.998		1,3,5-Trimethylbenzene	ND	2.0	0.998	
1,4-Dichlorobenzene	ND	1.0	0.998		Vinyl Acetate	ND	10	0.998	
Dichlorodifluoromethane	ND	2.0	0.998		Vinyl Chloride	ND	1.0	0.998	
1,1-Dichloroethane	ND	1.0	0.998		p/m-Xylene	ND	2.0	0.998	
1,2-Dichloroethane	ND	1.0	0.998		o-Xylene	ND	1.0	0.998	
1,1-Dichloroethene	ND	1.0	0.998		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.998	
c-1,2-Dichloroethene	ND	1.0	0.998		Tert-Butyl Alcohol (TBA)	ND	20	0.998	
t-1,2-Dichloroethene	ND	1.0	0.998		Diisopropyl Ether (DIPE)	ND	1.0	0.998	
1,2-Dichloropropane	ND	1.0	0.998		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	0.998	
1,3-Dichloropropane	ND	1.0	0.998		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	0.998	
2,2-Dichloropropane	ND	5.0	0.998		Ethanol	ND	500	0.998	
1,1-Dichloropropene	ND	2.0	0.998						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	71-137		1,2-Dichloroethane-d4	105	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27@8inches	**09-10-1536-3-E**	**10/19/09 11:43**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 20:26**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	96	46	0.928		c-1,3-Dichloropropene	ND	0.93	0.928	
Benzene	ND	0.93	0.928		t-1,3-Dichloropropene	ND	1.9	0.928	
Bromobenzene	ND	0.93	0.928		Ethylbenzene	ND	0.93	0.928	
Bromochloromethane	ND	1.9	0.928		2-Hexanone	ND	19	0.928	
Bromodichloromethane	ND	0.93	0.928		Isopropylbenzene	ND	0.93	0.928	
Bromoform	ND	4.6	0.928		p-Isopropyltoluene	ND	0.93	0.928	
Bromomethane	ND	19	0.928		Methylene Chloride	ND	9.3	0.928	
2-Butanone	ND	19	0.928		4-Methyl-2-Pentanone	ND	19	0.928	
n-Butylbenzene	ND	0.93	0.928		Naphthalene	ND	9.3	0.928	
sec-Butylbenzene	ND	0.93	0.928		n-Propylbenzene	ND	1.9	0.928	
tert-Butylbenzene	ND	0.93	0.928		Styrene	ND	0.93	0.928	
Carbon Disulfide	ND	9.3	0.928		1,1,1,2-Tetrachloroethane	ND	0.93	0.928	
Carbon Tetrachloride	ND	0.93	0.928		1,1,2,2-Tetrachloroethane	ND	1.9	0.928	
Chlorobenzene	ND	0.93	0.928		Tetrachloroethene	ND	0.93	0.928	
Chloroethane	ND	1.9	0.928		Toluene	ND	0.93	0.928	
Chloroform	ND	0.93	0.928		1,2,3-Trichlorobenzene	ND	1.9	0.928	
Chloromethane	ND	19	0.928		1,2,4-Trichlorobenzene	ND	1.9	0.928	
2-Chlorotoluene	ND	0.93	0.928		1,1,1-Trichloroethane	ND	0.93	0.928	
4-Chlorotoluene	ND	0.93	0.928		1,1,2-Trichloroethane	ND	0.93	0.928	
Dibromochloromethane	ND	1.9	0.928		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.928	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.928		Trichloroethene	ND	1.9	0.928	
1,2-Dibromoethane	ND	0.93	0.928		Trichlorofluoromethane	ND	9.3	0.928	
Dibromomethane	ND	0.93	0.928		1,2,3-Trichloropropane	ND	1.9	0.928	
1,2-Dichlorobenzene	ND	0.93	0.928		1,2,4-Trimethylbenzene	ND	1.9	0.928	
1,3-Dichlorobenzene	ND	0.93	0.928		1,3,5-Trimethylbenzene	ND	1.9	0.928	
1,4-Dichlorobenzene	ND	0.93	0.928		Vinyl Acetate	ND	9.3	0.928	
Dichlorodifluoromethane	ND	1.9	0.928		Vinyl Chloride	ND	0.93	0.928	
1,1-Dichloroethane	ND	0.93	0.928		p/m-Xylene	ND	1.9	0.928	
1,2-Dichloroethane	ND	0.93	0.928		o-Xylene	ND	0.93	0.928	
1,1-Dichloroethene	ND	0.93	0.928		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.928	
c-1,2-Dichloroethene	ND	0.93	0.928		Tert-Butyl Alcohol (TBA)	ND	19	0.928	
t-1,2-Dichloroethene	ND	0.93	0.928		Diisopropyl Ether (DIPE)	ND	0.93	0.928	
1,2-Dichloropropane	ND	0.93	0.928		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.928	
1,3-Dichloropropane	ND	0.93	0.928		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.928	
2,2-Dichloropropane	ND	4.6	0.928		Ethanol	ND	460	0.928	
1,1-Dichloropropene	ND	1.9	0.928						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	71-137		1,2-Dichloroethane-d4	104	58-160	
1,4-Bromofluorobenzene	96	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@1ft	**09-10-1536-4-E**	**10/19/09 11:43**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 20:53**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	50	44	0.885		c-1,3-Dichloropropene	ND	0.88	0.885	
Benzene	ND	0.88	0.885		t-1,3-Dichloropropene	ND	1.8	0.885	
Bromobenzene	ND	0.88	0.885		Ethylbenzene	ND	0.88	0.885	
Bromochloromethane	ND	1.8	0.885		2-Hexanone	ND	18	0.885	
Bromodichloromethane	ND	0.88	0.885		Isopropylbenzene	ND	0.88	0.885	
Bromoform	ND	4.4	0.885		p-Isopropyltoluene	ND	0.88	0.885	
Bromomethane	ND	18	0.885		Methylene Chloride	ND	8.8	0.885	
2-Butanone	ND	18	0.885		4-Methyl-2-Pentanone	ND	18	0.885	
n-Butylbenzene	ND	0.88	0.885		Naphthalene	ND	8.8	0.885	
sec-Butylbenzene	ND	0.88	0.885		n-Propylbenzene	ND	1.8	0.885	
tert-Butylbenzene	ND	0.88	0.885		Styrene	ND	0.88	0.885	
Carbon Disulfide	ND	8.8	0.885		1,1,1,2-Tetrachloroethane	ND	0.88	0.885	
Carbon Tetrachloride	ND	0.88	0.885		1,1,2,2-Tetrachloroethane	ND	1.8	0.885	
Chlorobenzene	ND	0.88	0.885		Tetrachloroethene	ND	0.88	0.885	
Chloroethane	ND	1.8	0.885		Toluene	ND	0.88	0.885	
Chloroform	ND	0.88	0.885		1,2,3-Trichlorobenzene	ND	1.8	0.885	
Chloromethane	ND	18	0.885		1,2,4-Trichlorobenzene	ND	1.8	0.885	
2-Chlorotoluene	ND	0.88	0.885		1,1,1-Trichloroethane	ND	0.88	0.885	
4-Chlorotoluene	ND	0.88	0.885		1,1,2-Trichloroethane	ND	0.88	0.885	
Dibromochloromethane	ND	1.8	0.885		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.8	0.885	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.885		Trichloroethene	ND	1.8	0.885	
1,2-Dibromoethane	ND	0.88	0.885		Trichlorofluoromethane	ND	8.8	0.885	
Dibromomethane	ND	0.88	0.885		1,2,3-Trichloropropane	ND	1.8	0.885	
1,2-Dichlorobenzene	ND	0.88	0.885		1,2,4-Trimethylbenzene	ND	1.8	0.885	
1,3-Dichlorobenzene	ND	0.88	0.885		1,3,5-Trimethylbenzene	ND	1.8	0.885	
1,4-Dichlorobenzene	ND	0.88	0.885		Vinyl Acetate	ND	8.8	0.885	
Dichlorodifluoromethane	ND	1.8	0.885		Vinyl Chloride	ND	0.88	0.885	
1,1-Dichloroethane	ND	0.88	0.885		p/m-Xylene	ND	1.8	0.885	
1,2-Dichloroethane	ND	0.88	0.885		o-Xylene	ND	0.88	0.885	
1,1-Dichloroethene	ND	0.88	0.885		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.885	
c-1,2-Dichloroethene	ND	0.88	0.885		Tert-Butyl Alcohol (TBA)	ND	18	0.885	
t-1,2-Dichloroethene	ND	0.88	0.885		Diisopropyl Ether (DIPE)	ND	0.88	0.885	
1,2-Dichloropropane	ND	0.88	0.885		Ethyl-t-Butyl Ether (ETBE)	ND	0.88	0.885	
1,3-Dichloropropane	ND	0.88	0.885		Tert-Amyl-Methyl Ether (TAME)	ND	0.88	0.885	
2,2-Dichloropropane	ND	4.4	0.885		Ethanol	ND	440	0.885	
1,1-Dichloropropene	ND	1.8	0.885						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	71-137		1,2-Dichloroethane-d4	107	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-30@8inches	**09-10-1536-5-E**	**10/19/09 12:04**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 21:21**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	110	42	0.849		c-1,3-Dichloropropene	ND	0.85	0.849	
Benzene	ND	0.85	0.849		t-1,3-Dichloropropene	ND	1.7	0.849	
Bromobenzene	ND	0.85	0.849		Ethylbenzene	ND	0.85	0.849	
Bromochloromethane	ND	1.7	0.849		2-Hexanone	ND	17	0.849	
Bromodichloromethane	ND	0.85	0.849		Isopropylbenzene	ND	0.85	0.849	
Bromoform	ND	4.2	0.849		p-Isopropyltoluene	ND	0.85	0.849	
Bromomethane	ND	17	0.849		Methylene Chloride	ND	8.5	0.849	
2-Butanone	ND	17	0.849		4-Methyl-2-Pentanone	ND	17	0.849	
n-Butylbenzene	ND	0.85	0.849		Naphthalene	ND	8.5	0.849	
sec-Butylbenzene	ND	0.85	0.849		n-Propylbenzene	ND	1.7	0.849	
tert-Butylbenzene	ND	0.85	0.849		Styrene	ND	0.85	0.849	
Carbon Disulfide	ND	8.5	0.849		1,1,1,2-Tetrachloroethane	ND	0.85	0.849	
Carbon Tetrachloride	ND	0.85	0.849		1,1,2,2-Tetrachloroethane	ND	1.7	0.849	
Chlorobenzene	ND	0.85	0.849		Tetrachloroethene	ND	0.85	0.849	
Chloroethane	ND	1.7	0.849		Toluene	ND	0.85	0.849	
Chloroform	ND	0.85	0.849		1,2,3-Trichlorobenzene	ND	1.7	0.849	
Chloromethane	ND	17	0.849		1,2,4-Trichlorobenzene	ND	1.7	0.849	
2-Chlorotoluene	ND	0.85	0.849		1,1,1-Trichloroethane	ND	0.85	0.849	
4-Chlorotoluene	ND	0.85	0.849		1,1,2-Trichloroethane	ND	0.85	0.849	
Dibromochloromethane	ND	1.7	0.849		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.849	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.849		Trichloroethene	ND	1.7	0.849	
1,2-Dibromoethane	ND	0.85	0.849		Trichlorofluoromethane	ND	8.5	0.849	
Dibromomethane	ND	0.85	0.849		1,2,3-Trichloropropane	ND	1.7	0.849	
1,2-Dichlorobenzene	ND	0.85	0.849		1,2,4-Trimethylbenzene	ND	1.7	0.849	
1,3-Dichlorobenzene	ND	0.85	0.849		1,3,5-Trimethylbenzene	ND	1.7	0.849	
1,4-Dichlorobenzene	ND	0.85	0.849		Vinyl Acetate	ND	8.5	0.849	
Dichlorodifluoromethane	ND	1.7	0.849		Vinyl Chloride	ND	0.85	0.849	
1,1-Dichloroethane	ND	0.85	0.849		p/m-Xylene	ND	1.7	0.849	
1,2-Dichloroethane	ND	0.85	0.849		o-Xylene	ND	0.85	0.849	
1,1-Dichloroethene	ND	0.85	0.849		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.849	
c-1,2-Dichloroethene	ND	0.85	0.849		Tert-Butyl Alcohol (TBA)	ND	17	0.849	
t-1,2-Dichloroethene	ND	0.85	0.849		Diisopropyl Ether (DIPE)	ND	0.85	0.849	
1,2-Dichloropropane	ND	0.85	0.849		Ethyl-t-Butyl Ether (ETBE)	ND	0.85	0.849	
1,3-Dichloropropane	ND	0.85	0.849		Tert-Amyl-Methyl Ether (TAME)	ND	0.85	0.849	
2,2-Dichloropropane	ND	4.2	0.849		Ethanol	ND	420	0.849	
1,1-Dichloropropene	ND	1.7	0.849						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	107	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-31@1ft	**09-10-1536-6-E**	**10/19/09 12:19**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 21:48**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	48	0.951		c-1,3-Dichloropropene	ND	0.95	0.951	
Benzene	ND	0.95	0.951		t-1,3-Dichloropropene	ND	1.9	0.951	
Bromobenzene	ND	0.95	0.951		Ethylbenzene	ND	0.95	0.951	
Bromochloromethane	ND	1.9	0.951		2-Hexanone	ND	19	0.951	
Bromodichloromethane	ND	0.95	0.951		Isopropylbenzene	ND	0.95	0.951	
Bromoform	ND	4.8	0.951		p-Isopropyltoluene	ND	0.95	0.951	
Bromomethane	ND	19	0.951		Methylene Chloride	ND	9.5	0.951	
2-Butanone	ND	19	0.951		4-Methyl-2-Pentanone	ND	19	0.951	
n-Butylbenzene	ND	0.95	0.951		Naphthalene	ND	9.5	0.951	
sec-Butylbenzene	ND	0.95	0.951		n-Propylbenzene	ND	1.9	0.951	
tert-Butylbenzene	ND	0.95	0.951		Styrene	ND	0.95	0.951	
Carbon Disulfide	ND	9.5	0.951		1,1,1,2-Tetrachloroethane	ND	0.95	0.951	
Carbon Tetrachloride	ND	0.95	0.951		1,1,2,2-Tetrachloroethane	ND	1.9	0.951	
Chlorobenzene	ND	0.95	0.951		Tetrachloroethene	ND	0.95	0.951	
Chloroethane	ND	1.9	0.951		Toluene	ND	0.95	0.951	
Chloroform	ND	0.95	0.951		1,2,3-Trichlorobenzene	ND	1.9	0.951	
Chloromethane	ND	19	0.951		1,2,4-Trichlorobenzene	ND	1.9	0.951	
2-Chlorotoluene	ND	0.95	0.951		1,1,1-Trichloroethane	ND	0.95	0.951	
4-Chlorotoluene	ND	0.95	0.951		1,1,2-Trichloroethane	ND	0.95	0.951	
Dibromochloromethane	ND	1.9	0.951		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.5	0.951	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.951		Trichloroethene	ND	1.9	0.951	
1,2-Dibromoethane	ND	0.95	0.951		Trichlorofluoromethane	ND	9.5	0.951	
Dibromomethane	ND	0.95	0.951		1,2,3-Trichloropropane	ND	1.9	0.951	
1,2-Dichlorobenzene	ND	0.95	0.951		1,2,4-Trimethylbenzene	ND	1.9	0.951	
1,3-Dichlorobenzene	ND	0.95	0.951		1,3,5-Trimethylbenzene	ND	1.9	0.951	
1,4-Dichlorobenzene	ND	0.95	0.951		Vinyl Acetate	ND	9.5	0.951	
Dichlorodifluoromethane	ND	1.9	0.951		Vinyl Chloride	ND	0.95	0.951	
1,1-Dichloroethane	ND	0.95	0.951		p/m-Xylene	ND	1.9	0.951	
1,2-Dichloroethane	ND	0.95	0.951		o-Xylene	ND	0.95	0.951	
1,1-Dichloroethene	ND	0.95	0.951		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.951	
c-1,2-Dichloroethene	ND	0.95	0.951		Tert-Butyl Alcohol (TBA)	ND	19	0.951	
t-1,2-Dichloroethene	ND	0.95	0.951		Diisopropyl Ether (DIPE)	ND	0.95	0.951	
1,2-Dichloropropane	ND	0.95	0.951		Ethyl-t-Butyl Ether (ETBE)	ND	0.95	0.951	
1,3-Dichloropropane	ND	0.95	0.951		Tert-Amyl-Methyl Ether (TAME)	ND	0.95	0.951	
2,2-Dichloropropane	ND	4.8	0.951		Ethanol	ND	480	0.951	
1,1-Dichloropropene	ND	1.9	0.951						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	71-137		1,2-Dichloroethane-d4	109	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-32@1ft	**09-10-1536-7-E**	**10/19/09 12:23**	**Solid**	**GC/MS RR**	**10/19/09**	**10/20/09 22:15**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	46	43	0.861		c-1,3-Dichloropropene	ND	0.86	0.861	
Benzene	ND	0.86	0.861		t-1,3-Dichloropropene	ND	1.7	0.861	
Bromobenzene	ND	0.86	0.861		Ethylbenzene	ND	0.86	0.861	
Bromochloromethane	ND	1.7	0.861		2-Hexanone	ND	17	0.861	
Bromodichloromethane	ND	0.86	0.861		Isopropylbenzene	ND	0.86	0.861	
Bromoform	ND	4.3	0.861		p-Isopropyltoluene	ND	0.86	0.861	
Bromomethane	ND	17	0.861		Methylene Chloride	ND	8.6	0.861	
2-Butanone	ND	17	0.861		4-Methyl-2-Pentanone	ND	17	0.861	
n-Butylbenzene	ND	0.86	0.861		Naphthalene	ND	8.6	0.861	
sec-Butylbenzene	ND	0.86	0.861		n-Propylbenzene	ND	1.7	0.861	
tert-Butylbenzene	ND	0.86	0.861		Styrene	ND	0.86	0.861	
Carbon Disulfide	ND	8.6	0.861		1,1,1,2-Tetrachloroethane	ND	0.86	0.861	
Carbon Tetrachloride	ND	0.86	0.861		1,1,2,2-Tetrachloroethane	ND	1.7	0.861	
Chlorobenzene	ND	0.86	0.861		Tetrachloroethene	ND	0.86	0.861	
Chloroethane	ND	1.7	0.861		Toluene	ND	0.86	0.861	
Chloroform	ND	0.86	0.861		1,2,3-Trichlorobenzene	ND	1.7	0.861	
Chloromethane	ND	17	0.861		1,2,4-Trichlorobenzene	ND	1.7	0.861	
2-Chlorotoluene	ND	0.86	0.861		1,1,1-Trichloroethane	ND	0.86	0.861	
4-Chlorotoluene	ND	0.86	0.861		1,1,2-Trichloroethane	ND	0.86	0.861	
Dibromochloromethane	ND	1.7	0.861		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.861	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.861		Trichloroethene	ND	1.7	0.861	
1,2-Dibromoethane	ND	0.86	0.861		Trichlorofluoromethane	ND	8.6	0.861	
Dibromomethane	ND	0.86	0.861		1,2,3-Trichloropropane	ND	1.7	0.861	
1,2-Dichlorobenzene	ND	0.86	0.861		1,2,4-Trimethylbenzene	ND	1.7	0.861	
1,3-Dichlorobenzene	ND	0.86	0.861		1,3,5-Trimethylbenzene	ND	1.7	0.861	
1,4-Dichlorobenzene	ND	0.86	0.861		Vinyl Acetate	ND	8.6	0.861	
Dichlorodifluoromethane	ND	1.7	0.861		Vinyl Chloride	ND	0.86	0.861	
1,1-Dichloroethane	ND	0.86	0.861		p/m-Xylene	ND	1.7	0.861	
1,2-Dichloroethane	ND	0.86	0.861		o-Xylene	ND	0.86	0.861	
1,1-Dichloroethene	ND	0.86	0.861		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.861	
c-1,2-Dichloroethene	ND	0.86	0.861		Tert-Butyl Alcohol (TBA)	ND	17	0.861	
t-1,2-Dichloroethene	ND	0.86	0.861		Diisopropyl Ether (DIPE)	ND	0.86	0.861	
1,2-Dichloropropane	ND	0.86	0.861		Ethyl-t-Butyl Ether (ETBE)	ND	0.86	0.861	
1,3-Dichloropropane	ND	0.86	0.861		Tert-Amyl-Methyl Ether (TAME)	ND	0.86	0.861	
2,2-Dichloropropane	ND	4.3	0.861		Ethanol	ND	430	0.861	
1,1-Dichloropropene	ND	1.7	0.861						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	71-137		1,2-Dichloroethane-d4	114	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16@8inches	**09-10-1536-8-E**	**10/19/09 12:46**	**Solid**	**GC/MS W**	**10/19/09**	**10/20/09 19:40**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	56	45	0.899		c-1,3-Dichloropropene	ND	0.90	0.899	
Benzene	ND	0.90	0.899		t-1,3-Dichloropropene	ND	1.8	0.899	
Bromobenzene	ND	0.90	0.899		Ethylbenzene	ND	0.90	0.899	
Bromochloromethane	ND	1.8	0.899		2-Hexanone	ND	18	0.899	
Bromodichloromethane	ND	0.90	0.899		Isopropylbenzene	ND	0.90	0.899	
Bromoform	ND	4.5	0.899		p-Isopropyltoluene	ND	0.90	0.899	
Bromomethane	ND	18	0.899		Methylene Chloride	ND	9.0	0.899	
2-Butanone	ND	18	0.899		4-Methyl-2-Pentanone	ND	18	0.899	
n-Butylbenzene	ND	0.90	0.899		Naphthalene	ND	9.0	0.899	
sec-Butylbenzene	ND	0.90	0.899		n-Propylbenzene	ND	1.8	0.899	
tert-Butylbenzene	ND	0.90	0.899		Styrene	ND	0.90	0.899	
Carbon Disulfide	ND	9.0	0.899		1,1,1,2-Tetrachloroethane	ND	0.90	0.899	
Carbon Tetrachloride	ND	0.90	0.899		1,1,2,2-Tetrachloroethane	ND	1.8	0.899	
Chlorobenzene	ND	0.90	0.899		Tetrachloroethene	ND	0.90	0.899	
Chloroethane	ND	1.8	0.899		Toluene	ND	0.90	0.899	
Chloroform	ND	0.90	0.899		1,2,3-Trichlorobenzene	ND	1.8	0.899	
Chloromethane	ND	18	0.899		1,2,4-Trichlorobenzene	ND	1.8	0.899	
2-Chlorotoluene	ND	0.90	0.899		1,1,1-Trichloroethane	ND	0.90	0.899	
4-Chlorotoluene	ND	0.90	0.899		1,1,2-Trichloroethane	ND	0.90	0.899	
Dibromochloromethane	ND	1.8	0.899		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.0	0.899	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.899		Trichloroethene	ND	1.8	0.899	
1,2-Dibromoethane	ND	0.90	0.899		Trichlorofluoromethane	ND	9.0	0.899	
Dibromomethane	ND	0.90	0.899		1,2,3-Trichloropropane	ND	1.8	0.899	
1,2-Dichlorobenzene	ND	0.90	0.899		1,2,4-Trimethylbenzene	ND	1.8	0.899	
1,3-Dichlorobenzene	ND	0.90	0.899		1,3,5-Trimethylbenzene	ND	1.8	0.899	
1,4-Dichlorobenzene	ND	0.90	0.899		Vinyl Acetate	ND	9.0	0.899	
Dichlorodifluoromethane	ND	1.8	0.899		Vinyl Chloride	ND	0.90	0.899	
1,1-Dichloroethane	ND	0.90	0.899		p/m-Xylene	ND	1.8	0.899	
1,2-Dichloroethane	ND	0.90	0.899		o-Xylene	ND	0.90	0.899	
1,1-Dichloroethene	ND	0.90	0.899		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.899	
c-1,2-Dichloroethene	ND	0.90	0.899		Tert-Butyl Alcohol (TBA)	ND	18	0.899	
t-1,2-Dichloroethene	ND	0.90	0.899		Diisopropyl Ether (DIPE)	ND	0.90	0.899	
1,2-Dichloropropane	ND	0.90	0.899		Ethyl-t-Butyl Ether (ETBE)	ND	0.90	0.899	
1,3-Dichloropropane	ND	0.90	0.899		Tert-Amyl-Methyl Ether (TAME)	ND	0.90	0.899	
2,2-Dichloropropane	ND	4.5	0.899		Ethanol	ND	450	0.899	
1,1-Dichloropropene	ND	1.8	0.899						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	71-137		1,2-Dichloroethane-d4	119	58-160	
1,4-Bromofluorobenzene	95	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-33@1ft	**09-10-1536-9-E**	**10/19/09 13:03**	**Solid**	**GC/MS W**	**10/19/09**	**10/20/09 20:09**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.839		c-1,3-Dichloropropene	ND	0.84	0.839	
Benzene	ND	0.84	0.839		t-1,3-Dichloropropene	ND	1.7	0.839	
Bromobenzene	ND	0.84	0.839		Ethylbenzene	ND	0.84	0.839	
Bromochloromethane	ND	1.7	0.839		2-Hexanone	ND	17	0.839	
Bromodichloromethane	ND	0.84	0.839		Isopropylbenzene	ND	0.84	0.839	
Bromoform	ND	4.2	0.839		p-Isopropyltoluene	ND	0.84	0.839	
Bromomethane	ND	17	0.839		Methylene Chloride	ND	8.4	0.839	
2-Butanone	ND	17	0.839		4-Methyl-2-Pentanone	ND	17	0.839	
n-Butylbenzene	ND	0.84	0.839		Naphthalene	ND	8.4	0.839	
sec-Butylbenzene	ND	0.84	0.839		n-Propylbenzene	ND	1.7	0.839	
tert-Butylbenzene	ND	0.84	0.839		Styrene	ND	0.84	0.839	
Carbon Disulfide	ND	8.4	0.839		1,1,1,2-Tetrachloroethane	ND	0.84	0.839	
Carbon Tetrachloride	ND	0.84	0.839		1,1,2,2-Tetrachloroethane	ND	1.7	0.839	
Chlorobenzene	ND	0.84	0.839		Tetrachloroethene	ND	0.84	0.839	
Chloroethane	ND	1.7	0.839		Toluene	ND	0.84	0.839	
Chloroform	ND	0.84	0.839		1,2,3-Trichlorobenzene	ND	1.7	0.839	
Chloromethane	ND	17	0.839		1,2,4-Trichlorobenzene	ND	1.7	0.839	
2-Chlorotoluene	ND	0.84	0.839		1,1,1-Trichloroethane	ND	0.84	0.839	
4-Chlorotoluene	ND	0.84	0.839		1,1,2-Trichloroethane	ND	0.84	0.839	
Dibromochloromethane	ND	1.7	0.839		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.839	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.839		Trichloroethene	ND	1.7	0.839	
1,2-Dibromoethane	ND	0.84	0.839		Trichlorofluoromethane	ND	8.4	0.839	
Dibromomethane	ND	0.84	0.839		1,2,3-Trichloropropane	ND	1.7	0.839	
1,2-Dichlorobenzene	ND	0.84	0.839		1,2,4-Trimethylbenzene	ND	1.7	0.839	
1,3-Dichlorobenzene	ND	0.84	0.839		1,3,5-Trimethylbenzene	ND	1.7	0.839	
1,4-Dichlorobenzene	ND	0.84	0.839		Vinyl Acetate	ND	8.4	0.839	
Dichlorodifluoromethane	ND	1.7	0.839		Vinyl Chloride	ND	0.84	0.839	
1,1-Dichloroethane	ND	0.84	0.839		p/m-Xylene	ND	1.7	0.839	
1,2-Dichloroethane	ND	0.84	0.839		o-Xylene	ND	0.84	0.839	
1,1-Dichloroethene	ND	0.84	0.839		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.839	
c-1,2-Dichloroethene	ND	0.84	0.839		Tert-Butyl Alcohol (TBA)	ND	17	0.839	
t-1,2-Dichloroethene	ND	0.84	0.839		Diisopropyl Ether (DIPE)	ND	0.84	0.839	
1,2-Dichloropropane	ND	0.84	0.839		Ethyl-t-Butyl Ether (ETBE)	ND	0.84	0.839	
1,3-Dichloropropane	ND	0.84	0.839		Tert-Amyl-Methyl Ether (TAME)	ND	0.84	0.839	
2,2-Dichloropropane	ND	4.2	0.839		Ethanol	ND	420	0.839	
1,1-Dichloropropene	ND	1.7	0.839						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	71-137		1,2-Dichloroethane-d4	119	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29@1ft	**09-10-1536-10-E**	**10/19/09 13:17**	**Solid**	**GC/MS W**	**10/19/09**	**10/20/09 20:38**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.868		c-1,3-Dichloropropene	ND	0.87	0.868	
Benzene	ND	0.87	0.868		t-1,3-Dichloropropene	ND	1.7	0.868	
Bromobenzene	ND	0.87	0.868		Ethylbenzene	ND	0.87	0.868	
Bromochloromethane	ND	1.7	0.868		2-Hexanone	ND	17	0.868	
Bromodichloromethane	ND	0.87	0.868		Isopropylbenzene	ND	0.87	0.868	
Bromoform	ND	4.3	0.868		p-Isopropyltoluene	ND	0.87	0.868	
Bromomethane	ND	17	0.868		Methylene Chloride	ND	8.7	0.868	
2-Butanone	ND	17	0.868		4-Methyl-2-Pentanone	ND	17	0.868	
n-Butylbenzene	ND	0.87	0.868		Naphthalene	ND	8.7	0.868	
sec-Butylbenzene	ND	0.87	0.868		n-Propylbenzene	ND	1.7	0.868	
tert-Butylbenzene	ND	0.87	0.868		Styrene	ND	0.87	0.868	
Carbon Disulfide	ND	8.7	0.868		1,1,1,2-Tetrachloroethane	ND	0.87	0.868	
Carbon Tetrachloride	ND	0.87	0.868		1,1,2,2-Tetrachloroethane	ND	1.7	0.868	
Chlorobenzene	ND	0.87	0.868		Tetrachloroethene	ND	0.87	0.868	
Chloroethane	ND	1.7	0.868		Toluene	ND	0.87	0.868	
Chloroform	ND	0.87	0.868		1,2,3-Trichlorobenzene	ND	1.7	0.868	
Chloromethane	ND	17	0.868		1,2,4-Trichlorobenzene	ND	1.7	0.868	
2-Chlorotoluene	ND	0.87	0.868		1,1,1-Trichloroethane	ND	0.87	0.868	
4-Chlorotoluene	ND	0.87	0.868		1,1,2-Trichloroethane	ND	0.87	0.868	
Dibromochloromethane	ND	1.7	0.868		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.7	0.868	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.868		Trichloroethene	ND	1.7	0.868	
1,2-Dibromoethane	ND	0.87	0.868		Trichlorofluoromethane	ND	8.7	0.868	
Dibromomethane	ND	0.87	0.868		1,2,3-Trichloropropane	ND	1.7	0.868	
1,2-Dichlorobenzene	ND	0.87	0.868		1,2,4-Trimethylbenzene	ND	1.7	0.868	
1,3-Dichlorobenzene	ND	0.87	0.868		1,3,5-Trimethylbenzene	ND	1.7	0.868	
1,4-Dichlorobenzene	ND	0.87	0.868		Vinyl Acetate	ND	8.7	0.868	
Dichlorodifluoromethane	ND	1.7	0.868		Vinyl Chloride	ND	0.87	0.868	
1,1-Dichloroethane	ND	0.87	0.868		p/m-Xylene	ND	1.7	0.868	
1,2-Dichloroethane	ND	0.87	0.868		o-Xylene	ND	0.87	0.868	
1,1-Dichloroethene	ND	0.87	0.868		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.868	
c-1,2-Dichloroethene	ND	0.87	0.868		Tert-Butyl Alcohol (TBA)	ND	17	0.868	
t-1,2-Dichloroethene	ND	0.87	0.868		Diisopropyl Ether (DIPE)	ND	0.87	0.868	
1,2-Dichloropropane	ND	0.87	0.868		Ethyl-t-Butyl Ether (ETBE)	ND	0.87	0.868	
1,3-Dichloropropane	ND	0.87	0.868		Tert-Amyl-Methyl Ether (TAME)	ND	0.87	0.868	
2,2-Dichloropropane	ND	4.3	0.868		Ethanol	ND	430	0.868	
1,1-Dichloropropene	ND	1.7	0.868						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	96	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,368**	**N/A**	**Solid**	**GC/MS W**	**10/20/09**	**10/20/09 16:45**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	71-137		1,2-Dichloroethane-d4	106	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/20/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,369**	**N/A**	**Solid**	**GC/MS RR**	**10/20/09**	**10/20/09 17:42**	**091020L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	71-137		1,2-Dichloroethane-d4	108	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-26@5ft	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09**	**091021S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	28	30	50-115	8	0-20	3
Arsenic	101	99	75-125	3	0-20	
Beryllium	107	104	75-125	2	0-20	
Cadmium	100	98	75-125	2	0-20	
Chromium	107	103	75-125	3	0-20	
Copper	105	100	75-125	4	0-20	
Lead	103	101	75-125	2	0-20	
Nickel	110	102	75-125	4	0-20	
Selenium	98	94	75-125	4	0-20	
Silver	111	108	75-125	2	0-20	
Thallium	92	90	75-125	1	0-20	
Zinc	109	103	75-125	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1447-21	**Solid**	**GC 46**	**10/21/09**	**10/22/09**	**091021S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	90	94	64-130	5	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1304-3	**Solid**	**FLAA2**	**10/27/09**	**10/27/09**	**091027S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	82	86	22-148	5	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-26@5ft	**Solid**	**Mercury**	**10/22/09**	**10/22/09**	**091022S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	112	112	71-137	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/20/09
Work Order No: 09-10-1536
Preparation: EPA 3545
Method: EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-28@1ft	**Solid**	**GC 44**	**10/22/09**	**10/23/09**	**091022S15**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	94	94	50-135	0	0-25	
Gamma-BHC	95	95	50-135	0	0-25	
Beta-BHC	97	104	50-135	7	0-25	
Heptachlor	93	93	50-135	0	0-25	
Delta-BHC	96	97	50-135	1	0-25	
Aldrin	91	91	50-135	0	0-25	
Heptachlor Epoxide	86	86	50-135	0	0-25	
Endosulfan I	87	86	50-135	1	0-25	
Dieldrin	90	91	50-135	0	0-25	
4,4'-DDE	110	113	50-135	2	0-25	
Endrin	98	98	50-135	0	0-25	
Endrin Aldehyde	100	100	50-135	0	0-25	
4,4'-DDD	102	102	50-135	1	0-25	
Endosulfan II	93	93	50-135	0	0-25	
4,4'-DDT	97	98	50-135	0	0-25	
Endosulfan Sulfate	92	92	50-135	0	0-25	
Methoxychlor	98	98	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/20/09
Work Order No:	09-10-1536
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-26@5ft	**Solid**	**GC 35**	**10/22/09**	**10/23/09**	**091022S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	92	63	30-130	38	0-30	4
Bolstar	70	56	30-130	22	0-30	
Chlorpyrifos	63	84	30-130	28	0-30	
Coumaphos	98	64	30-130	42	0-30	4
Diazinon	94	90	30-130	4	0-30	
Disulfoton	104	105	30-130	1	0-30	
Ethoprop	91	98	30-130	7	0-30	
Fensulfothion	80	65	30-130	21	0-30	
Fenthion	79	94	30-130	18	0-30	
Merphos	79	83	30-130	5	0-30	
Methyl Parathion	89	90	30-130	2	0-30	
Phorate	107	112	30-130	4	0-30	
Ronnel	84	83	30-130	2	0-30	
Stirophos	57	48	30-130	16	0-30	
Tokuthion	69	73	30-130	5	0-30	
Trichloronate	70	83	30-130	17	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1536
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,853	**Solid**	**ICP 5300**	**10/21/09**	**10/22/09**	**091021L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	101	102	80-120	73-127	0	0-20	
Arsenic	100	99	80-120	73-127	2	0-20	
Beryllium	104	105	80-120	73-127	0	0-20	
Cadmium	102	104	80-120	73-127	1	0-20	
Chromium	100	101	80-120	73-127	1	0-20	
Copper	99	100	80-120	73-127	1	0-20	
Lead	106	104	80-120	73-127	2	0-20	
Nickel	106	104	80-120	73-127	1	0-20	
Selenium	99	97	80-120	73-127	3	0-20	
Silver	110	111	80-120	73-127	1	0-20	
Thallium	101	99	80-120	73-127	2	0-20	
Zinc	108	109	80-120	73-127	1	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1536
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-881	**Solid**	**GC 46**	**10/21/09**	**10/22/09**	**091021B08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	122	122	75-123	0	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1536
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,272	**Solid**	**FLAA2**	**10/27/09**	**NONE**	**091027L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	12.5	12.4	99	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1536
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,611	**Solid**	**Mercury**	**10/22/09**	**10/22/09**	**091022L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	108	109	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1536
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-753	**Solid**	**GC 44**	**10/22/09**	**10/23/09**	**091022L15**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	90	94	50-135	36-149	4	0-25	
Gamma-BHC	88	92	50-135	36-149	4	0-25	
Beta-BHC	85	91	50-135	36-149	7	0-25	
Heptachlor	89	93	50-135	36-149	4	0-25	
Delta-BHC	84	90	50-135	36-149	7	0-25	
Aldrin	89	92	50-135	36-149	4	0-25	
Heptachlor Epoxide	86	90	50-135	36-149	4	0-25	
Endosulfan I	101	101	50-135	36-149	0	0-25	
Dieldrin	87	91	50-135	36-149	5	0-25	
4,4'-DDE	63	74	50-135	36-149	15	0-25	
Endrin	70	75	50-135	36-149	6	0-25	
Endrin Aldehyde	96	100	50-135	36-149	5	0-25	
4,4'-DDD	86	93	50-135	36-149	8	0-25	
Endosulfan II	85	89	50-135	36-149	5	0-25	
4,4'-DDT	80	87	50-135	36-149	8	0-25	
Endosulfan Sulfate	87	92	50-135	36-149	5	0-25	
Methoxychlor	83	89	50-135	36-149	7	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1536
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-10	**Solid**	**GC 35**	**10/22/09**	**10/22/09**	**091022L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	77	89	30-130	13-147	15	0-30	
Bolstar	80	79	30-130	13-147	1	0-30	
Chlorpyrifos	84	78	30-130	13-147	7	0-30	
Coumaphos	83	91	30-130	13-147	10	0-30	
Diazinon	96	84	30-130	13-147	14	0-30	
Disulfoton	110	98	30-130	13-147	12	0-30	
Ethoprop	105	95	30-130	13-147	10	0-30	
Fensulfothion	86	85	30-130	13-147	0	0-30	
Fenthion	100	92	30-130	13-147	8	0-30	
Merphos	95	89	30-130	13-147	6	0-30	
Methyl Parathion	93	83	30-130	13-147	12	0-30	
Phorate	122	112	30-130	13-147	9	0-30	
Ronnel	94	79	30-130	13-147	17	0-30	
Stirophos	59	62	30-130	13-147	5	0-30	
Tokuthion	86	80	30-130	13-147	7	0-30	
Trichloronate	90	90	30-130	13-147	0	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1536
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,368	**Solid**	**GC/MS W**	**10/20/09**	**10/20/09**	**091020L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	103	101	85-115	80-120	2	0-11	
Carbon Tetrachloride	102	99	68-134	57-145	3	0-14	
Chlorobenzene	105	104	83-119	77-125	1	0-9	
1,2-Dibromoethane	105	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	104	104	57-135	44-148	0	0-10	
1,1-Dichloroethene	104	101	72-120	64-128	2	0-10	
Ethylbenzene	109	109	80-120	73-127	0	0-20	
Toluene	104	102	67-127	57-137	2	0-10	
Trichloroethene	103	105	88-112	84-116	2	0-9	
Vinyl Chloride	99	95	57-129	45-141	4	0-16	
Methyl-t-Butyl Ether (MTBE)	104	101	76-124	68-132	3	0-12	
Tert-Butyl Alcohol (TBA)	103	99	31-145	12-164	5	0-23	
Diisopropyl Ether (DIPE)	106	103	74-128	65-137	3	0-10	
Ethyl-t-Butyl Ether (ETBE)	107	103	77-125	69-133	4	0-9	
Tert-Amyl-Methyl Ether (TAME)	106	106	81-123	74-130	0	0-10	
Ethanol	102	93	44-152	26-170	9	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1536
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,369	**Solid**	**GC/MS RR**	**10/20/09**	**10/20/09**	**091020L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	96	85-115	80-120	3	0-11	
Carbon Tetrachloride	96	92	68-134	57-145	4	0-14	
Chlorobenzene	98	94	83-119	77-125	4	0-9	
1,2-Dibromoethane	103	98	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	96	93	57-135	44-148	3	0-10	
1,1-Dichloroethene	95	93	72-120	64-128	3	0-10	
Ethylbenzene	103	99	80-120	73-127	4	0-20	
Toluene	99	96	67-127	57-137	3	0-10	
Trichloroethene	97	95	88-112	84-116	2	0-9	
Vinyl Chloride	91	90	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	102	98	76-124	68-132	4	0-12	
Tert-Butyl Alcohol (TBA)	85	91	31-145	12-164	8	0-23	
Diisopropyl Ether (DIPE)	106	103	74-128	65-137	4	0-10	
Ethyl-t-Butyl Ether (ETBE)	107	103	77-125	69-133	4	0-9	
Tert-Amyl-Methyl Ether (TAME)	107	102	81-123	74-130	4	0-10	
Ethanol	88	93	44-152	26-170	6	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1536

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00006

Project Location PG&E Radback, Oakley

Laboratory Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK-CM/ARCADIS

09-10-1536

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Low level VOCs (w/MTBE) oxygenates + TICs, Terra Core	TPH-D, SVOCs (w/TICs) PAHs, organochlorine pest., organophosphorus pest., PP metals, 1 8oz jar	Dioxins/Furans, 1 4oz jar	TEL	(Organic Pb)	Remarks	Total
1	SB-26@ 5ft	S	10/19/2009 1043		X	X	X	X	LK 10/19/09		5
2	SB-26@ 8inches	S	10/19/09 1053		X	X	X	X			5
3	SB-27@ 8inches	S	10/19/09 1143		X	X	X	X			6
4	SB-28@ 1ft	S	10/19/09 1143		X	X	X				6
5	SB-30@ 8inches	S	10/19/09 1204		X	X	X				6
6	SB-31@ 1ft	S	10/19/09 1219		X	X	X				6
7	SB-32@ 1ft	S	10/19/09 1223		X	X	X	X			6
8	SB-16@ 8inches	S	10/19/09 1246		X	X	X	X			6
9	SB-33@ 1ft	S	10/19/09 1303		X	X	X				6
10	SB-29@ 1ft	S	10/19/09 1317		X	X	X	X			6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 60

Relinquished by: [signature]	Organization: ARCADIS	Date 10/19/09	Time 1400	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/19/09	Time 1400	
Relinquished by: [signature] to CEL	Organization: CEL	Date 10/19/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature] CEL	Organization: CEL	Date 10/20/09	Time 1030	

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☒ Common Carrier GSO #128546000 (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No: _____
Temperature: _____ °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION
Company Name: Calscience Environmental Laboratories
Contact Name: Danielle Gonsman
Address: 7440 Lincoln Way, Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501
Email: dgonsman@calscience.com

INVOICE INFORMATION (if different from client info)
Company Name: Same
Contact Name:
Address:
Phone: Fax:
Email:

PROJECT INFORMATION
FAL Quote #:
P.O. #:
Project #: 09-10-1536
Project Name: RC000746.0002.0006
TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-26 @ 5 ft	10-19-09	1043	S	1		X									D/F
2	-26 8 inches		1053													
3	-27 8 "		1143													
4	-28 1 ft		1143													
5	-30 8 inches		1204													
6	-31 1 ft		1219													
7	-32 1 "		1223													
8	-16 8 inches		1246													
9	-33 1 ft		1303													
10	-29 1 "		1317													
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-19-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1536

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/20/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C - 0.2 °C (CF) = 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® 3 ☑ 2oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** DL

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Danielle Gonsman

From: Alan Kemp
Sent: Monday, October 19, 2009 4:40 PM
To: Danielle Gonsman
Subject: FW: coc
Attachments: Analysis plan_V2.xlsx; Arcadis coc.pdf; image001.jpg

The attached table has the complete work plan for the Oakley site so feel free to forward so the lab knows what the scope will be.

For the samples we picked up today, I subbed the Dioxins to Frontier. A copy of the sub-chain is attached to the original coc but I forgot to attach my usual post-it note before it got packed. The attached, annotated, coc is a correction to the one you will receive with the samples. They do not need SVOCs, PAHs, or PCBs on any of these samples per Kathy's confirmation below.

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

From: Brandt, Katherine [mailto:Katherine.Brandt@arcadis-us.com]
Sent: Monday, October 19, 2009 4:27 PM
To: Alan Kemp
Subject: RE: coc

Yes. That is correct. I have a proposed analysis table (attached) that we are following. No changes have been made so far. There may only be an increase in samples in the well cluster locations.

Hope this helps and not confuses more.

Kathy

From: Alan Kemp [mailto:AKemp@calscience.com]
Sent: Monday, October 19, 2009 4:25 PM
To: Brandt, Katherine
Subject: RE: coc

No problem and just so I make sure we're clear, you do not need SVOCs, PAHs, or PCBs on any of these samples, correct?

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

From: Brandt, Katherine [mailto:Katherine.Brandt@arcadis-us.com]
Sent: Monday, October 19, 2009 4:19 PM
To: Alan Kemp
Subject: RE: coc

Alan,

I am sorry for the confusion. I have put a not on this COC (attached). I will try and make sure the field team understands the need for a clear chain of custody.

Kathy

From: Alan Kemp [mailto:AKemp@calscience.com]
Sent: Monday, October 19, 2009 4:15 PM
To: Brandt, Katherine
Cc: Danielle Gonsman
Subject: coc

Kathy attached for today's samples. Let me know about any corrections and I'll make sure the lab gets the information.

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

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Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 04, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1536**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/20/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

October 29, 2009

FAL Project ID: 5788

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5788**. This corresponds to your project number **09-10-1536**. The ten soil samples received on 10/20/2009 were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's (WHO) toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5788**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5788**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5788**

Received on: **10/20/2009** Project Due: **11/11/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5788-001-SA	0	09-10-1536	SB-26 @ 5 ft	EPA 8290 D/F	Soil	10/19/2009	10:43 am	11/18/2009
5788-002-SA	0	09-10-1536	SB-26 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	10:53 am	11/18/2009
5788-003-SA	0	09-10-1536	SB-27 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	11:43 am	11/18/2009
5788-004-SA	0	09-10-1536	SB-28 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	11:43 am	11/18/2009
5788-005-SA	0	09-10-1536	SB-30 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	12:04 pm	11/18/2009
5788-006-SA	0	09-10-1536	SB-31 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	12:19 pm	11/18/2009
5788-007-SA	0	09-10-1536	SB-32 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	12:23 pm	11/18/2009
5788-008-SA	0	09-10-1536	SB-16 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	12:46 pm	11/18/2009
5788-009-SA	0	09-10-1536	SB-33 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	01:03 pm	11/18/2009
5788-010-SA	0	09-10-1536	SB-29 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	01:17 pm	11/18/2009

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.131		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.180		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.153		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.215		-	0.0680	Total TCDD	ND	0.131	
1,2,3,7,8,9-HxCDD	ND	0.201		-	0.0666	Total PeCDD	ND	0.180	
1,2,3,4,6,7,8-HpCDD	ND	0.222		-	0.0927	Total HxCDD	ND	0.215	
OCDD	ND	0.959		-	0.272	Total HpCDD	ND	0.222	
2,3,7,8-TCDF	ND	0.0576		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.109		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.135		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.118		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.135		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.113		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.189		-	0.0493	Total TCDF	ND	0.0576	
1,2,3,4,6,7,8-HpCDF	ND	0.167		-	0.0404	Total PeCDF	ND	0.135	
1,2,3,4,7,8,9-HpCDF	ND	0.197		-	0.0469	Total HxCDF	ND	0.189	
OCDF	ND	0.453		-	0.177	Total HpCDF	ND	0.197	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	102	40.0 - 135	
13C-1,2,3,7,8-PeCDD	98.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	80.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.7	40.0 - 135	
13C-OCDD	65.1	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	89.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	87.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	82.0	40.0 - 135	
13C-OCDF	73.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 10-27-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	7.69	7.00 - 13.0	
1,2,3,7,8-PeCDD	44.6	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	40.8	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	40.6	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	41.0	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	40.9	35.0 - 65.0	
OCDD	76.9	70.0 - 130	
2,3,7,8-TCDF	7.64	7.00 - 13.0	
1,2,3,7,8-PeCDF	42.2	35.0 - 65.0	
2,3,4,7,8-PeCDF	42.1	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	39.4	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	38.6	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	38.5	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	39.1	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	40.1	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	41.2	35.0 - 65.0	
OCDF	75.9	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	86.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	68.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.1	40.0 - 135	
13C-OCDD	54.6	40.0 - 135	
13C-2,3,7,8-TCDF	89.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	80.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	79.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	60.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	71.3	40.0 - 135	
13C-OCDF	62.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-001-SA
Client ID: SB-26 @ 5 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.23 g
% Solids: 95.77

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.143		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.147		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.196		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.274		-	0.0680	Total TCDD	ND	0.143	
1,2,3,7,8,9-HxCDD	ND	0.257		-	0.0666	Total PeCDD	ND	0.147	
1,2,3,4,6,7,8-HpCDD	ND	0.461		-	0.0927	Total HxCDD	ND	0.274	
OCDD	ND	1.18		-	0.272	Total HpCDD	ND	0.461	
2,3,7,8-TCDF	ND	0.0607		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0908		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.116		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0975		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.110		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0883		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.161		-	0.0493	Total TCDF	ND	0.0607	
1,2,3,4,6,7,8-HpCDF	ND	0.148		-	0.0404	Total PeCDF	ND	0.116	
1,2,3,4,7,8,9-HpCDF	ND	0.172		-	0.0469	Total HxCDF	ND	0.161	
OCDF	ND	0.395		-	0.177	Total HpCDF	ND	0.172	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 135	
13C-1,2,3,7,8-PeCDD	96.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	79.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	78.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.4	40.0 - 135	
13C-OCDD	63.8	40.0 - 135	
13C-2,3,7,8-TCDF	104	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	82.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	83.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	70.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.5	40.0 - 135	
13C-OCDF	72.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: JC
Date: 10/28/09

Reviewed By: b
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-002-SA
Client ID: SB-26 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.53 g
% Solids: 85.37

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 6.27

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.234		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.383		-	0.0457				
1,2,3,4,7,8-HxCDD	0.470	-	J	0.0470	0.0496				
1,2,3,6,7,8-HxCDD	2.43	-	J	0.243	0.0680	Total TCDD	ND	0.234	
1,2,3,7,8,9-HxCDD	1.15	-	J	0.115	0.0666	Total PeCDD	ND	0.383	
1,2,3,4,6,7,8-HpCDD	46.4	-		0.464	0.0927	Total HxCDD	10.5	-	
OCDD	367	-		0.110	0.272	Total HpCDD	81.5	-	
2,3,7,8-TCDF	3.96	-	F	0.396	0.0252				
1,2,3,7,8-PeCDF	9.75	-		0.292	0.0365				
2,3,4,7,8-PeCDF	2.44	-	J	0.732	0.0486				
1,2,3,4,7,8-HxCDF	17.8	-		1.78	0.0267				
1,2,3,6,7,8-HxCDF	8.66	-		0.866	0.0289				
2,3,4,6,7,8-HxCDF	4.80	-		0.480	0.0298				
1,2,3,7,8,9-HxCDF	3.17	-	J	0.317	0.0493	Total TCDF	36.9	-	
1,2,3,4,6,7,8-HpCDF	32.6	-		0.326	0.0404	Total PeCDF	47.2	-	
1,2,3,4,7,8,9-HpCDF	8.86	-		0.0886	0.0469	Total HxCDF	84.0	-	
OCDF	38.1	-		0.0114	0.177	Total HpCDF	64.8	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	78.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	76.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	79.1	40.0 - 135	
13C-OCDD	73.3	40.0 - 135	
13C-2,3,7,8-TCDF	97.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	86.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	80.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	86.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	83.6	40.0 - 135	
13C-OCDF	79.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-003-SA
Client ID: SB-27 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.30 g
% Solids: 88.66

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 3.25

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.145		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.518		-	0.0457				
1,2,3,4,7,8-HxCDD	0.627	-	J	0.0627	0.0496				
1,2,3,6,7,8-HxCDD	3.28	-	J	0.328	0.0680	Total TCDD	0.373	-	J
1,2,3,7,8,9-HxCDD	1.58	-	J	0.158	0.0666	Total PeCDD	ND	0.518	
1,2,3,4,6,7,8-HpCDD	62.2	-		0.622	0.0927	Total HxCDD	14.5	-	
OCDD	458	-		0.137	0.272	Total HpCDD	110	-	
2,3,7,8-TCDF	1.41	-		0.141	0.0252				
1,2,3,7,8-PeCDF	3.08	-	J	0.0924	0.0365				
2,3,4,7,8-PeCDF	1.22	-	J	0.366	0.0486				
1,2,3,4,7,8-HxCDF	5.65	-		0.565	0.0267				
1,2,3,6,7,8-HxCDF	3.04	-	J	0.304	0.0289				
2,3,4,6,7,8-HxCDF	1.75	-	J	0.175	0.0298				
1,2,3,7,8,9-HxCDF	1.23	-	J	0.123	0.0493	Total TCDF	12.2	-	
1,2,3,4,6,7,8-HpCDF	13.9	-		0.139	0.0404	Total PeCDF	19.2	-	
1,2,3,4,7,8,9-HpCDF	2.81	-	J	0.0281	0.0469	Total HxCDF	38.0	-	
OCDF	15.9	-		0.00477	0.177	Total HpCDF	32.6	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	98.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	100	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	78.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	79.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.8	40.0 - 135	
13C-OCDD	69.7	40.0 - 135	
13C-2,3,7,8-TCDF	101	40.0 - 135	
13C-1,2,3,7,8-PeCDF	94.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	88.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	73.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.8	40.0 - 135	
13C-OCDF	77.3	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	97.4	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-004-SA
Client ID: SB-28 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.21 g
% Solids: 89.79

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.0790

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.180		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.241		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.382		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.544		-	0.0680	Total TCDD	ND	0.180	
1,2,3,7,8,9-HxCDD	ND	0.505		-	0.0666	Total PeCDD	ND	0.241	
1,2,3,4,6,7,8-HpCDD	5.61	-		0.0561	0.0927	Total HxCDD	ND	0.544	
OCDD	51.3	-		0.0154	0.272	Total HpCDD	10.8	-	
2,3,7,8-TCDF	ND	0.158		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.183		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.236		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.134		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.146		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.119		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.196		-	0.0493	Total TCDF	ND	0.158	
1,2,3,4,6,7,8-HpCDF	0.747	-	J	0.00747	0.0404	Total PeCDF	ND	0.236	
1,2,3,4,7,8,9-HpCDF	ND	0.143		-	0.0469	Total HxCDF	0.799	-	J
OCDF	ND	0.899		-	0.177	Total HpCDF	1.67	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	89.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.2	40.0 - 135	
13C-OCDD	68.8	40.0 - 135	
13C-2,3,7,8-TCDF	98.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	76.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	78.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	78.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	84.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	82.4	40.0 - 135	
13C-OCDF	78.2	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	89.8	50.0 - 150

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-005-SA
Client ID: SB-30 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.14 g
% Solids: 91.24

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 1.06

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.193		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.189		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.188		-	0.0496				
1,2,3,6,7,8-HxCDD	0.495	-	J	0.0495	0.0680	Total TCDD	ND	0.193	
1,2,3,7,8,9-HxCDD	ND	0.245		-	0.0666	Total PeCDD	ND	0.189	
1,2,3,4,6,7,8-HpCDD	7.67	-		0.0767	0.0927	Total HxCDD	2.05	-	J
OCDD	59.8	-		0.0179	0.272	Total HpCDD	13.8	-	
2,3,7,8-TCDF	0.682	-	J	0.0682	0.0252				
1,2,3,7,8-PeCDF	1.57	-	J	0.0471	0.0365				
2,3,4,7,8-PeCDF	0.684	-	J	0.205	0.0486				
1,2,3,4,7,8-HxCDF	2.68	-	J	0.268	0.0267				
1,2,3,6,7,8-HxCDF	1.34	-	J	0.134	0.0289				
2,3,4,6,7,8-HxCDF	0.764	-	J	0.0764	0.0298				
1,2,3,7,8,9-HxCDF	0.552	-	J	0.0552	0.0493	Total TCDF	6.12	-	
1,2,3,4,6,7,8-HpCDF	4.84	-	J	0.0484	0.0404	Total PeCDF	7.22	-	
1,2,3,4,7,8,9-HpCDF	1.42	-	J	0.0142	0.0469	Total HxCDF	12.5	-	
OCDF	7.71	-	J	0.00231	0.177	Total HpCDF	10.5	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	96.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.7	40.0 - 135	
13C-OCDD	63.3	40.0 - 135	
13C-2,3,7,8-TCDF	96.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	90.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	78.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	78.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	76.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	84.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	67.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.8	40.0 - 135	
13C-OCDF	70.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-006-SA
Client ID: SB-31 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.17 g
% Solids: 89.94

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.125

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.157		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.161		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.236		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.328		-	0.0680	Total TCDD	ND	0.157	
1,2,3,7,8,9-HxCDD	ND	0.308		-	0.0666	Total PeCDD	ND	0.161	
1,2,3,4,6,7,8-HpCDD	1.79	-	J	0.0179	0.0927	Total HxCDD	ND	0.328	
OCDD	12.2	-		0.00366	0.272	Total HpCDD	3.43	-	J
2,3,7,8-TCDF	0.154	-	J	0.0154	0.0252				
1,2,3,7,8-PeCDF	0.245	-	J	0.00735	0.0365				
2,3,4,7,8-PeCDF	ND	-		-	0.0486				
1,2,3,4,7,8-HxCDF	0.369	-	J	0.0369	0.0267				
1,2,3,6,7,8-HxCDF	0.207	-	J	0.0207	0.0289				
2,3,4,6,7,8-HxCDF	0.148	-	J	0.0148	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.131		-	0.0493	Total TCDF	0.413	-	J
1,2,3,4,6,7,8-HpCDF	0.774	-	J	0.00774	0.0404	Total PeCDF	1.08	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.213		-	0.0469	Total HxCDF	1.76	-	J
OCDF	1.49	-	J	0.000447	0.177	Total HpCDF	1.51	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	100	40.0 - 135	
13C-1,2,3,7,8-PeCDD	98.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	81.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	77.2	40.0 - 135	
13C-OCDD	62.4	40.0 - 135	
13C-2,3,7,8-TCDF	103	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	90.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	81.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	68.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	83.0	40.0 - 135	
13C-OCDF	71.8	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	104	50.0 - 150

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-007-SA
Client ID: SB-32 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.25 g
% Solids: 90.42

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.00723

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.181		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.177		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.204		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.303		-	0.0680	Total TCDD	ND	0.181	
1,2,3,7,8,9-HxCDD	ND	0.276		-	0.0666	Total PeCDD	ND	0.177	
1,2,3,4,6,7,8-HpCDD	0.610	-	J	0.00610	0.0927	Total HxCDD	ND	0.303	
OCDD	3.77	-	J	0.00113	0.272	Total HpCDD	1.34	-	J
2,3,7,8-TCDF	ND	0.131		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.138		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.182		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.120		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.136		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.109		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.178		-	0.0493	Total TCDF	ND	0.131	
1,2,3,4,6,7,8-HpCDF	ND	0.193		-	0.0404	Total PeCDF	ND	0.182	
1,2,3,4,7,8,9-HpCDF	ND	0.219		-	0.0469	Total HxCDF	ND	0.178	
OCDF	ND	0.473		-	0.177	Total HpCDF	ND	0.219	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	76.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.0	40.0 - 135	
13C-OCDD	71.3	40.0 - 135	
13C-2,3,7,8-TCDF	98.4	40.0 - 135	
13C-1,2,3,7,8-PeCDF	86.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	83.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	78.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	78.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	78.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	85.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.5	40.0 - 135	
13C-OCDF	76.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-008-SA
Client ID: SB-16 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 4.95 g
% Solids: 88.03

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 10.8

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.212		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.384		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.331		-	0.0496				
1,2,3,6,7,8-HxCDD	0.959	-	J	0.0959	0.0680	Total TCDD	ND	0.212	
1,2,3,7,8,9-HxCDD	0.612	-	J	0.0612	0.0666	Total PeCDD	ND	0.384	
1,2,3,4,6,7,8-HpCDD	13.9	-		0.139	0.0927	Total HxCDD	4.60	-	J
OCDD	106	-		0.0318	0.272	Total HpCDD	25.8	-	
2,3,7,8-TCDF	8.33	-	F	0.833	0.0252				
1,2,3,7,8-PeCDF	20.3	-		0.609	0.0365				
2,3,4,7,8-PeCDF	5.04	-	J	1.51	0.0486				
1,2,3,4,7,8-HxCDF	35.2	-		3.52	0.0267				
1,2,3,6,7,8-HxCDF	18.2	-		1.82	0.0289				
2,3,4,6,7,8-HxCDF	8.70	-		0.870	0.0298				
1,2,3,7,8,9-HxCDF	6.02	-		0.602	0.0493	Total TCDF	75.7	-	
1,2,3,4,6,7,8-HpCDF	50.2	-		0.502	0.0404	Total PeCDF	99.6	-	
1,2,3,4,7,8,9-HpCDF	15.8	-		0.158	0.0469	Total HxCDF	158	-	
OCDF	54.0	-		0.0162	0.177	Total HpCDF	93.7	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	94.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	71.6	40.0 - 135	
13C-OCDD	59.7	40.0 - 135	
13C-2,3,7,8-TCDF	88.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	75.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	75.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	74.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	75.7	40.0 - 135	
13C-OCDF	66.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-009-SA
Client ID: SB-33 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: NA
Amount: 4.97 g
% Solids: 91.13

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.00948

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.135		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.145		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.199		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.270		-	0.680	Total TCDD	ND	0.135	
1,2,3,7,8,9-HxCDD	ND	0.257		-	0.0666	Total PeCDD	ND	0.145	
1,2,3,4,6,7,8-HpCDD	0.795	-	J	0.00795	0.0927	Total HxCDD	ND	0.270	
OCDD	5.11	-	J	0.00153	0.272	Total HpCDD	1.65	-	J
2,3,7,8-TCDF	ND	0.116		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0939		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.119		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.127		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.140		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.123		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.208		-	0.0493	Total TCDF	ND	0.116	
1,2,3,4,6,7,8-HpCDF	ND	0.300		-	0.0404	Total PeCDF	ND	0.119	
1,2,3,4,7,8,9-HpCDF	ND	0.347		-	0.0469	Total HxCDF	ND	0.208	
OCDF	ND	0.616		-	0.177	Total HpCDF	ND	0.347	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	103	40.0 - 135	
13C-1,2,3,7,8-PeCDD	106	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	81.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	82.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	83.7	40.0 - 135	
13C-OCDD	74.7	40.0 - 135	
13C-2,3,7,8-TCDF	105	40.0 - 135	
13C-1,2,3,7,8-PeCDF	98.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	97.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	85.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	85.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	91.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	75.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	86.7	40.0 - 135	
13C-OCDF	82.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	105	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-010-SA
Client ID: SB-29 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.08 g
% Solids: 91.12

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.0164

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.191		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.186		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.275		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.388		-	0.0680	Total TCDD	ND	0.191	
1,2,3,7,8,9-HxCDD	ND	0.362		-	0.0666	Total PeCDD	ND	0.186	
1,2,3,4,6,7,8-HpCDD	1.38	-	J	0.0138	0.0927	Total HxCDD	ND	0.388	
OCDD	8.80	-	J	0.00264	0.272	Total HpCDD	2.67	-	J
2,3,7,8-TCDF	ND	0.132		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.147		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.193		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.177		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.197		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.166		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.283		-	0.0493	Total TCDF	ND	0.132	
1,2,3,4,6,7,8-HpCDF	ND	0.289		-	0.0404	Total PeCDF	ND	0.193	
1,2,3,4,7,8,9-HpCDF	ND	0.349		-	0.0469	Total HxCDF	ND	0.283	
OCDF	ND	0.550		-	0.177	Total HpCDF	ND	0.349	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 135	
13C-1,2,3,7,8-PeCDD	102	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	79.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	81.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.5	40.0 - 135	
13C-OCDD	67.2	40.0 - 135	
13C-2,3,7,8-TCDF	99.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	84.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	81.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	88.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.4	40.0 - 135	
13C-OCDF	76.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5788
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1536
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☑ I/II ☐ III ☐ IV	☐ Hardcopy	
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☑ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-26 @ 5 ft	10-19-09	1043	S	1		X									D/F
2	-26 8 inches		1053													
3	-27 8 "		1143													
4	-28 1 ft		1143													
5	-30 8 inches		1204													
6	-31 1 ft		1219													
7	-32 1 "		1223													
8	-16 8 inches		1246													
9	-33 1 ft		1303													
10	-29 1 "		1317													
11																
12																
13																
14																
15																

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10.19.09	1730	Tom Crabtree	10/20/09	11:55 AM

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5788**

Client:	Calscience
Client Project ID:	09-10-1536
Date Received:	10/20/2009
Time Received:	11:55 am
Received By:	TC
Logged In By:	KZ
# of Samples Received:	10
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	512853966
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/18/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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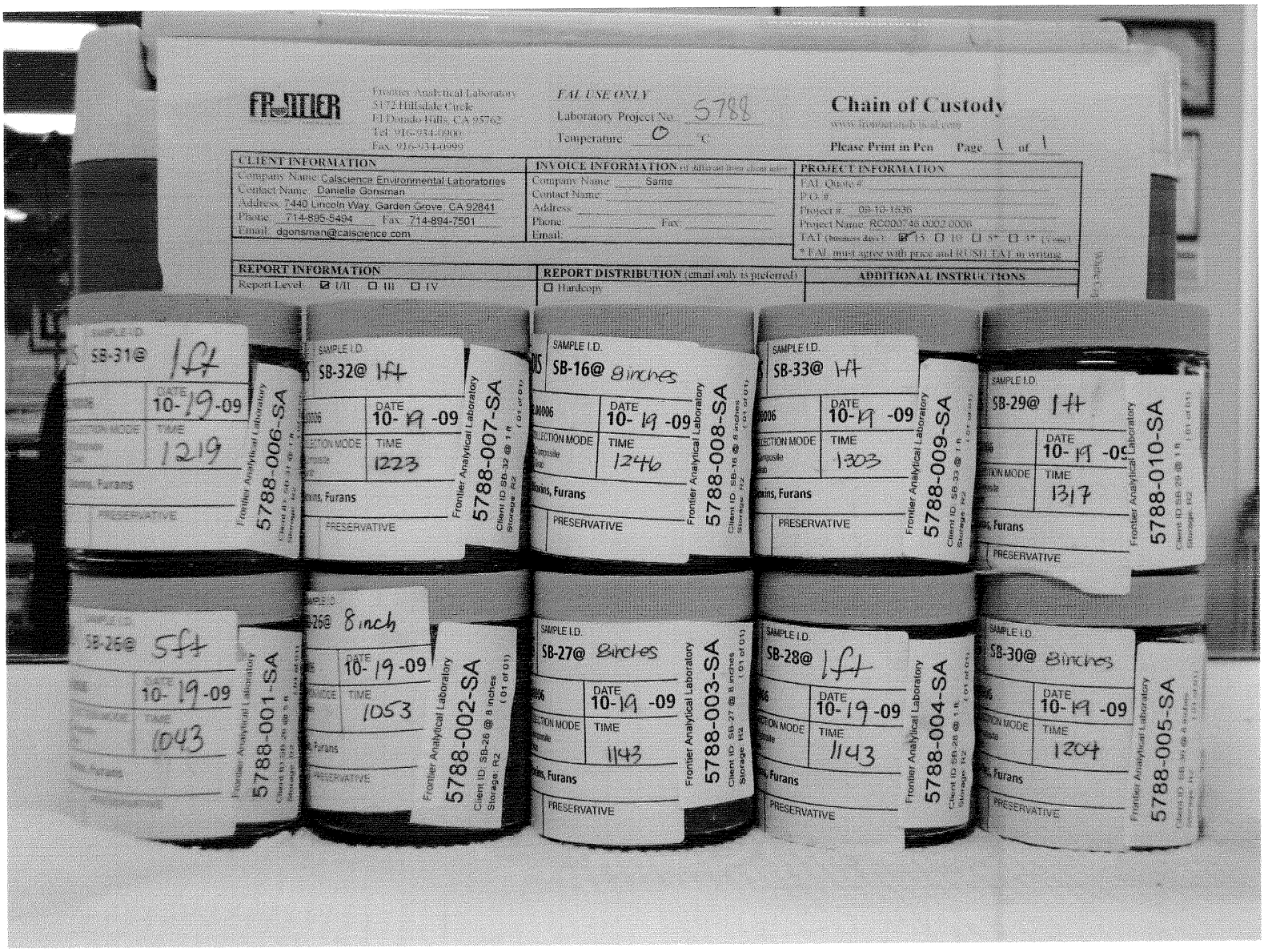
FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00006

Project Location PG&E Radback, Oakley

Laboratory Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK-CM/ARCADIS

09-10-1536

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Low level VOCs (w/MTBE) oxygenates + TPHs	TPH-D, SVOCs (w/PAHs) organochlorine pest., organophosphorus pest., PP metals / 8oz jar	Dioxins/Furans / 4oz jar	TEL	(Organic Pb)	Remarks	Total
1	SB-26@ 5ft	S	10/19/2009 1043		X	X	X	X	LK 10/19/09		6
2	SB-26@ 8inches	S	10/19/09 1053		X	X	X	X			6
3	SB-27@ 8inches	S	10/19/09 1143		X	X	X	X			6
4	SB-28@ 1ft	S	10/19/09 1143		X	X	X				6
5	SB-30@ 8inches	S	10/19/09 1204		X	X	X				6
6	SB-31@ 1ft	S	10/19/09 1219		X	X	X				6
7	SB-32@ 1ft	S	10/19/09 1223		X	X	X	X			6
8	SB-16@ 8inches	S	10/19/09 1246		X	X	X	X			6
9	SB-33@ 1ft	S	10/19/09 1303		X	X	X				6
10	SB-29@ 1ft	S	10/19/09 1317		X	X	X	X			6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 60

Relinquished by: [signature]	Organization: ARCADIS	Date 10/19/09	Time 1400	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/19/09	Time 1400	Yes No N/A	
Relinquished by: [signature] to CEL	Organization: CEL	Date 10/19/09	Time 1730	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 10/20/09	Time 1030	Yes No N/A	

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☒ Common Carrier GSO #128546000 (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No: _____
Temperature: _____ °C

Chain of Custody

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION
Company Name: Calscience Environmental Laboratories
Contact Name: Danielle Gonsman
Address: 7440 Lincoln Way, Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501
Email: dgonsman@calscience.com

INVOICE INFORMATION (if different from client info)
Company Name: Same
Contact Name:
Address:
Phone: Fax:
Email:

PROJECT INFORMATION
FAL Quote #:
P.O. #:
Project #: 09-10-1536
Project Name: RC000746.0002.0006
TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl_4-Cl_8)

**TEQ
☐ 1998 WHO
☐ 2005 WHO
☐ Other

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-26 @ 5 ft	10-19-09	1043	S	1		X									D/F
2	-26 8 inches		1053													
3	-27 8 "		1143													
4	-28 1 ft		1143													
5	-30 8 inches		1204													
6	-31 1 ft		1219													
7	-32 1 "		1223													
8	-16 8 inches		1246													
9	-33 1 ft		1303													
10	-29 1 "		1317													
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-19-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1536

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/20/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C - 0.2 °C (CF) = 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® 3 ☑ 2oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** DL

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Danielle Gonsman

From: Alan Kemp
Sent: Monday, October 19, 2009 4:40 PM
To: Danielle Gonsman
Subject: FW: coc
Attachments: Analysis plan_V2.xlsx; Arcadis coc.pdf; image001.jpg

The attached table has the complete work plan for the Oakley site so feel free to forward so the lab knows what the scope will be.

For the samples we picked up today, I subbed the Dioxins to Frontier. A copy of the sub-chain is attached to the original coc but I forgot to attach my usual post-it note before it got packed. The attached, annotated, coc is a correction to the one you will receive with the samples. They do not need SVOCs, PAHs, or PCBs on any of these samples per Kathy's confirmation below.

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

From: Brandt, Katherine [mailto:Katherine.Brandt@arcadis-us.com]
Sent: Monday, October 19, 2009 4:27 PM
To: Alan Kemp
Subject: RE: coc

Yes. That is correct. I have a proposed analysis table (attached) that we are following. No changes have been made so far. There may only be an increase in samples in the well cluster locations.

Hope this helps and not confuses more.

Kathy

From: Alan Kemp [mailto:AKemp@calscience.com]
Sent: Monday, October 19, 2009 4:25 PM
To: Brandt, Katherine
Subject: RE: coc

No problem and just so I make sure we're clear, you do not need SVOCs, PAHs, or PCBs on any of these samples, correct?

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

From: Brandt, Katherine [mailto:Katherine.Brandt@arcadis-us.com]
Sent: Monday, October 19, 2009 4:19 PM
To: Alan Kemp
Subject: RE: coc

Alan,

I am sorry for the confusion. I have put a not on this COC (attached). I will try and make sure the field team understands the need for a clear chain of custody.

Kathy

From: Alan Kemp [mailto:AKemp@calscience.com]
Sent: Monday, October 19, 2009 4:15 PM
To: Brandt, Katherine
Cc: Danielle Gonsman
Subject: coc

Kathy attached for today's samples. Let me know about any corrections and I'll make sure the lab gets the information.

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

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Calscience Environmental Laboratories, Inc.

Supplemental Report 2

November 10, 2009

Subcontract analyses are reported as a stand-alone (amended) report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1536**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/20/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

November 9, 2009

FAL Project ID: 5788 (Amended)

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

On 11/6/2009 you contacted us to request that we provide electronic disk deliverables (EDDs) for the samples associated with project **RC000746.0002.0006**. During the review of the EDD data, we discovered an omission related to sample 5788-006-SA (Calscience sample ID: SB-31 @ 1ft). The detection limit for 2,3,4,7,8-PeCDF should have been entered in as 0.131 pg/g on the data sheet for sample 5788-006-SA (see pg 10 of 17 of original report). The following report has been amended to include this detection limit. The report has been paginated with an "A) to distinguish it from the original report submitted on 11/3/09.

The following amended report contains the results for Frontier Analytical Laboratory project **5788**. This corresponds to your project number **09-10-1536**. Ten soil samples were received on 10/20/2009 in good condition. These samples were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5788**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **5788**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Vice President

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ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5788**

Received on: **10/20/2009** Project Due: **11/11/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5788-001-SA	0	09-10-1536	SB-26 @ 5 ft	EPA 8290 D/F	Soil	10/19/2009	10:43 am	11/18/2009
5788-002-SA	0	09-10-1536	SB-26 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	10:53 am	11/18/2009
5788-003-SA	0	09-10-1536	SB-27 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	11:43 am	11/18/2009
5788-004-SA	0	09-10-1536	SB-28 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	11:43 am	11/18/2009
5788-005-SA	0	09-10-1536	SB-30 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	12:04 pm	11/18/2009
5788-006-SA	0	09-10-1536	SB-31 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	12:19 pm	11/18/2009
5788-007-SA	0	09-10-1536	SB-32 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	12:23 pm	11/18/2009
5788-008-SA	0	09-10-1536	SB-16 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	12:46 pm	11/18/2009
5788-009-SA	0	09-10-1536	SB-33 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	01:03 pm	11/18/2009
5788-010-SA	0	09-10-1536	SB-29 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	01:17 pm	11/18/2009

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.131		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.180		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.153		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.215		-	0.0680	Total TCDD	ND	0.131	
1,2,3,7,8,9-HxCDD	ND	0.201		-	0.0666	Total PeCDD	ND	0.180	
1,2,3,4,6,7,8-HpCDD	ND	0.222		-	0.0927	Total HxCDD	ND	0.215	
OCDD	ND	0.959		-	0.272	Total HpCDD	ND	0.222	
2,3,7,8-TCDF	ND	0.0576		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.109		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.135		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.118		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.135		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.113		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.189		-	0.0493	Total TCDF	ND	0.0576	
1,2,3,4,6,7,8-HpCDF	ND	0.167		-	0.0404	Total PeCDF	ND	0.135	
1,2,3,4,7,8,9-HpCDF	ND	0.197		-	0.0469	Total HxCDF	ND	0.189	
OCDF	ND	0.453		-	0.177	Total HpCDF	ND	0.197	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	102	40.0 - 135	
13C-1,2,3,7,8-PeCDD	98.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	80.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.7	40.0 - 135	
13C-OCDD	65.1	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	89.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	87.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	82.0	40.0 - 135	
13C-OCDF	73.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 10-27-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	7.69	7.00 - 13.0	
1,2,3,7,8-PeCDD	44.6	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	40.8	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	40.6	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	41.0	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	40.9	35.0 - 65.0	
OCDD	76.9	70.0 - 130	
2,3,7,8-TCDF	7.64	7.00 - 13.0	
1,2,3,7,8-PeCDF	42.2	35.0 - 65.0	
2,3,4,7,8-PeCDF	42.1	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	39.4	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	38.6	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	38.5	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	39.1	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	40.1	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	41.2	35.0 - 65.0	
OCDF	75.9	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	86.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	68.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.1	40.0 - 135	
13C-OCDD	54.6	40.0 - 135	
13C-2,3,7,8-TCDF	89.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	80.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	79.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	60.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	71.3	40.0 - 135	
13C-OCDF	62.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-001-SA
Client ID: SB-26 @ 5 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.23 g
% Solids: 95.77

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.143		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.147		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.196		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.274		-	0.0680	Total TCDD	ND	0.143	
1,2,3,7,8,9-HxCDD	ND	0.257		-	0.0666	Total PeCDD	ND	0.147	
1,2,3,4,6,7,8-HpCDD	ND	0.461		-	0.0927	Total HxCDD	ND	0.274	
OCDD	ND	1.18		-	0.272	Total HpCDD	ND	0.461	
2,3,7,8-TCDF	ND	0.0607		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0908		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.116		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0975		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.110		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0883		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.161		-	0.0493	Total TCDF	ND	0.0607	
1,2,3,4,6,7,8-HpCDF	ND	0.148		-	0.0404	Total PeCDF	ND	0.116	
1,2,3,4,7,8,9-HpCDF	ND	0.172		-	0.0469	Total HxCDF	ND	0.161	
OCDF	ND	0.395		-	0.177	Total HpCDF	ND	0.172	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 135	
13C-1,2,3,7,8-PeCDD	96.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	79.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	78.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.4	40.0 - 135	
13C-OCDD	63.8	40.0 - 135	
13C-2,3,7,8-TCDF	104	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	82.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	83.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	70.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.5	40.0 - 135	
13C-OCDF	72.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: JC
Date: 10/28/09

Reviewed By: b
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-002-SA
Client ID: SB-26 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.53 g
% Solids: 85.37

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 6.27

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.234		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.383		-	0.0457				
1,2,3,4,7,8-HxCDD	0.470	-	J	0.0470	0.0496				
1,2,3,6,7,8-HxCDD	2.43	-	J	0.243	0.0680	Total TCDD	ND	0.234	
1,2,3,7,8,9-HxCDD	1.15	-	J	0.115	0.0666	Total PeCDD	ND	0.383	
1,2,3,4,6,7,8-HpCDD	46.4	-		0.464	0.0927	Total HxCDD	10.5	-	
OCDD	367	-		0.110	0.272	Total HpCDD	81.5	-	
2,3,7,8-TCDF	3.96	-	F	0.396	0.0252				
1,2,3,7,8-PeCDF	9.75	-		0.292	0.0365				
2,3,4,7,8-PeCDF	2.44	-	J	0.732	0.0486				
1,2,3,4,7,8-HxCDF	17.8	-		1.78	0.0267				
1,2,3,6,7,8-HxCDF	8.66	-		0.866	0.0289				
2,3,4,6,7,8-HxCDF	4.80	-		0.480	0.0298				
1,2,3,7,8,9-HxCDF	3.17	-	J	0.317	0.0493	Total TCDF	36.9	-	
1,2,3,4,6,7,8-HpCDF	32.6	-		0.326	0.0404	Total PeCDF	47.2	-	
1,2,3,4,7,8,9-HpCDF	8.86	-		0.0886	0.0469	Total HxCDF	84.0	-	
OCDF	38.1	-		0.0114	0.177	Total HpCDF	64.8	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	78.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	76.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	79.1	40.0 - 135	
13C-OCDD	73.3	40.0 - 135	
13C-2,3,7,8-TCDF	97.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	86.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	80.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	86.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	83.6	40.0 - 135	
13C-OCDF	79.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-003-SA
Client ID: SB-27 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.30 g
% Solids: 88.66

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 3.25

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.145		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.518		-	0.0457				
1,2,3,4,7,8-HxCDD	0.627	-	J	0.0627	0.0496				
1,2,3,6,7,8-HxCDD	3.28	-	J	0.328	0.0680	Total TCDD	0.373	-	J
1,2,3,7,8,9-HxCDD	1.58	-	J	0.158	0.0666	Total PeCDD	ND	0.518	
1,2,3,4,6,7,8-HpCDD	62.2	-		0.622	0.0927	Total HxCDD	14.5	-	
OCDD	458	-		0.137	0.272	Total HpCDD	110	-	
2,3,7,8-TCDF	1.41	-		0.141	0.0252				
1,2,3,7,8-PeCDF	3.08	-	J	0.0924	0.0365				
2,3,4,7,8-PeCDF	1.22	-	J	0.366	0.0486				
1,2,3,4,7,8-HxCDF	5.65	-		0.565	0.0267				
1,2,3,6,7,8-HxCDF	3.04	-	J	0.304	0.0289				
2,3,4,6,7,8-HxCDF	1.75	-	J	0.175	0.0298				
1,2,3,7,8,9-HxCDF	1.23	-	J	0.123	0.0493	Total TCDF	12.2	-	
1,2,3,4,6,7,8-HpCDF	13.9	-		0.139	0.0404	Total PeCDF	19.2	-	
1,2,3,4,7,8,9-HpCDF	2.81	-	J	0.0281	0.0469	Total HxCDF	38.0	-	
OCDF	15.9	-		0.00477	0.177	Total HpCDF	32.6	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	98.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	100	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	78.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	79.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.8	40.0 - 135	
13C-OCDD	69.7	40.0 - 135	
13C-2,3,7,8-TCDF	101	40.0 - 135	
13C-1,2,3,7,8-PeCDF	94.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	88.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	73.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.8	40.0 - 135	
13C-OCDF	77.3	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	97.4	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: JC
Date: 10/28/09

Reviewed By: [illegible]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-004-SA
Client ID: SB-28 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.21 g
% Solids: 89.79

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.0790

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.180		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.241		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.382		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.544		-	0.0680	Total TCDD	ND	0.180	
1,2,3,7,8,9-HxCDD	ND	0.505		-	0.0666	Total PeCDD	ND	0.241	
1,2,3,4,6,7,8-HpCDD	5.61	-		0.0561	0.0927	Total HxCDD	ND	0.544	
OCDD	51.3	-		0.0154	0.272	Total HpCDD	10.8	-	
2,3,7,8-TCDF	ND	0.158		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.183		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.236		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.134		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.146		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.119		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.196		-	0.0493	Total TCDF	ND	0.158	
1,2,3,4,6,7,8-HpCDF	0.747	-	J	0.00747	0.0404	Total PeCDF	ND	0.236	
1,2,3,4,7,8,9-HpCDF	ND	0.143		-	0.0469	Total HxCDF	0.799	-	J
OCDF	ND	0.899		-	0.177	Total HpCDF	1.67	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	89.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.2	40.0 - 135	
13C-OCDD	68.8	40.0 - 135	
13C-2,3,7,8-TCDF	98.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	76.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	78.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	78.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	84.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	82.4	40.0 - 135	
13C-OCDF	78.2	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	89.8	50.0 - 150

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-005-SA
Client ID: SB-30 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.14 g
% Solids: 91.24

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 1.06

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.193		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.189		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.188		-	0.0496				
1,2,3,6,7,8-HxCDD	0.495	-	J	0.0495	0.0680	Total TCDD	ND	0.193	
1,2,3,7,8,9-HxCDD	ND	0.245		-	0.0666	Total PeCDD	ND	0.189	
1,2,3,4,6,7,8-HpCDD	7.67	-		0.0767	0.0927	Total HxCDD	2.05	-	J
OCDD	59.8	-		0.0179	0.272	Total HpCDD	13.8	-	
2,3,7,8-TCDF	0.682	-	J	0.0682	0.0252				
1,2,3,7,8-PeCDF	1.57	-	J	0.0471	0.0365				
2,3,4,7,8-PeCDF	0.684	-	J	0.205	0.0486				
1,2,3,4,7,8-HxCDF	2.68	-	J	0.268	0.0267				
1,2,3,6,7,8-HxCDF	1.34	-	J	0.134	0.0289				
2,3,4,6,7,8-HxCDF	0.764	-	J	0.0764	0.0298				
1,2,3,7,8,9-HxCDF	0.552	-	J	0.0552	0.0493	Total TCDF	6.12	-	
1,2,3,4,6,7,8-HpCDF	4.84	-	J	0.0484	0.0404	Total PeCDF	7.22	-	
1,2,3,4,7,8,9-HpCDF	1.42	-	J	0.0142	0.0469	Total HxCDF	12.5	-	
OCDF	7.71	-	J	0.00231	0.177	Total HpCDF	10.5	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	96.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.7	40.0 - 135	
13C-OCDD	63.3	40.0 - 135	
13C-2,3,7,8-TCDF	96.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	90.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	78.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	78.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	76.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	84.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	67.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.8	40.0 - 135	
13C-OCDF	70.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-006-SA
Client ID: SB-31 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.17 g
% Solids: 89.94

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.125

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.157		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.161		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.236		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.328		-	0.0680	Total TCDD	ND	0.157	
1,2,3,7,8,9-HxCDD	ND	0.308		-	0.0666	Total PeCDD	ND	0.161	
1;2,3,4,6,7,8-HpCDD	1.79	-	J	0.0179	0.0927	Total HxCDD	ND	0.328	
OCDD	12.2	-		0.00366	0.272	Total HpCDD	3.43	-	J
2,3,7,8-TCDF	0.154	-	J	0.0154	0.0252				
1,2,3,7,8-PeCDF	0.245	-	J	0.00735	0.0365				
2,3,4,7,8-PeCDF	ND	0.131		-	0.0486				
1,2,3,4,7,8-HxCDF	0.369	-	J	0.0369	0.0267				
1,2,3,6,7,8-HxCDF	0.207	-	J	0.0207	0.0289				
2,3,4,6,7,8-HxCDF	0.148	-	J	0.0148	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.131		-	0.0493	Total TCDF	0.413	-	J
1,2,3,4,6,7,8-HpCDF	0.774	-	J	0.00774	0.0404	Total PeCDF	1.08	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.213		-	0.0469	Total HxCDF	1.76	-	J
OCDF	1.49	-	J	0.000447	0.177	Total HpCDF	1.51	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	100	40.0 - 135	
13C-1,2,3,7,8-PeCDD	98.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	81.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	77.2	40.0 - 135	
13C-OCDD	62.4	40.0 - 135	
13C-2,3,7,8-TCDF	103	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	90.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	81.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	68.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	83.0	40.0 - 135	
13C-OCDF	71.8	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	104	50.0 - 150

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-007-SA
Client ID: SB-32 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.25 g
% Solids: 90.42

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-27-2009
2005 WHO TEQ: 0.00723

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.181		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.177		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.204		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.303		-	0.0680	Total TCDD	ND	0.181	
1,2,3,7,8,9-HxCDD	ND	0.276		-	0.0666	Total PeCDD	ND	0.177	
1,2,3,4,6,7,8-HpCDD	0.610	-	J	0.00610	0.0927	Total HxCDD	ND	0.303	
OCDD	3.77	-	J	0.00113	0.272	Total HpCDD	1.34	-	J
2,3,7,8-TCDF	ND	0.131		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.138		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.182		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.120		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.136		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.109		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.178		-	0.0493	Total TCDF	ND	0.131	
1,2,3,4,6,7,8-HpCDF	ND	0.193		-	0.0404	Total PeCDF	ND	0.182	
1,2,3,4,7,8,9-HpCDF	ND	0.219		-	0.0469	Total HxCDF	ND	0.178	
OCDF	ND	0.473		-	0.177	Total HpCDF	ND	0.219	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	76.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.0	40.0 - 135	
13C-OCDD	71.3	40.0 - 135	
13C-2,3,7,8-TCDF	98.4	40.0 - 135	
13C-1,2,3,7,8-PeCDF	86.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	83.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	78.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	78.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	78.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	85.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.5	40.0 - 135	
13C-OCDF	76.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 11/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-008-SA
Client ID: SB-16 @ 8 inches
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 4.95 g
% Solids: 88.03

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 10.8

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.212		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.384		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.331		-	0.0496				
1,2,3,6,7,8-HxCDD	0.959	-	J	0.0959	0.0680	Total TCDD	ND	0.212	
1,2,3,7,8,9-HxCDD	0.612	-	J	0.0612	0.0666	Total PeCDD	ND	0.384	
1,2,3,4,6,7,8-HpCDD	13.9	-		0.139	0.0927	Total HxCDD	4.60	-	J
OCDD	106	-		0.0318	0.272	Total HpCDD	25.8	-	
2,3,7,8-TCDF	8.33	-	F	0.833	0.0252				
1,2,3,7,8-PeCDF	20.3	-		0.609	0.0365				
2,3,4,7,8-PeCDF	5.04	-	J	1.51	0.0486				
1,2,3,4,7,8-HxCDF	35.2	-		3.52	0.0267				
1,2,3,6,7,8-HxCDF	18.2	-		1.82	0.0289				
2,3,4,6,7,8-HxCDF	8.70	-		0.870	0.0298				
1,2,3,7,8,9-HxCDF	6.02	-		0.602	0.0493	Total TCDF	75.7	-	
1,2,3,4,6,7,8-HpCDF	50.2	-		0.502	0.0404	Total PeCDF	99.6	-	
1,2,3,4,7,8,9-HpCDF	15.8	-		0.158	0.0469	Total HxCDF	158	-	
OCDF	54.0	-		0.0162	0.177	Total HpCDF	93.7	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	94.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	71.6	40.0 - 135	
13C-OCDD	59.7	40.0 - 135	
13C-2,3,7,8-TCDF	88.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	75.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	75.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	74.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	75.7	40.0 - 135	
13C-OCDF	66.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-009-SA
Client ID: SB-33 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: NA
Amount: 4.97 g
% Solids: 91.13

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.00948

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.135		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.145		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.199		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.270		-	0.680	Total TCDD	ND	0.135	
1,2,3,7,8,9-HxCDD	ND	0.257		-	0.0666	Total PeCDD	ND	0.145	
1,2,3,4,6,7,8-HpCDD	0.795	-	J	0.00795	0.0927	Total HxCDD	ND	0.270	
OCDD	5.11	-	J	0.00153	0.272	Total HpCDD	1.65	-	J
2,3,7,8-TCDF	ND	0.116		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0939		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.119		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.127		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.140		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.123		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.208		-	0.0493	Total TCDF	ND	0.116	
1,2,3,4,6,7,8-HpCDF	ND	0.300		-	0.0404	Total PeCDF	ND	0.119	
1,2,3,4,7,8,9-HpCDF	ND	0.347		-	0.0469	Total HxCDF	ND	0.208	
OCDF	ND	0.616		-	0.177	Total HpCDF	ND	0.347	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	103	40.0 - 135	
13C-1,2,3,7,8-PeCDD	106	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	81.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	82.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	83.7	40.0 - 135	
13C-OCDD	74.7	40.0 - 135	
13C-2,3,7,8-TCDF	105	40.0 - 135	
13C-1,2,3,7,8-PeCDF	98.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	97.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	85.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	85.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	91.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	75.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	86.7	40.0 - 135	
13C-OCDF	82.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	105	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/26/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5788-010-SA
Client ID: SB-29 @ 1 ft
Matrix: Soil
Batch No: X1863

Date Extracted: 10-26-2009
Date Received: 10-20-2009
Amount: 5.08 g
% Solids: 91.12

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.0164

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.191		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.186		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.275		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.388		-	0.0680	Total TCDD	ND	0.191	
1,2,3,7,8,9-HxCDD	ND	0.362		-	0.0666	Total PeCDD	ND	0.186	
1,2,3,4,6,7,8-HpCDD	1.38	-	J	0.0138	0.0927	Total HxCDD	ND	0.388	
OCDD	8.80	-	J	0.00264	0.272	Total HpCDD	2.67	-	J
2,3,7,8-TCDF	ND	0.132		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.147		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.193		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.177		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.197		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.166		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.283		-	0.0493	Total TCDF	ND	0.132	
1,2,3,4,6,7,8-HpCDF	ND	0.289		-	0.0404	Total PeCDF	ND	0.193	
1,2,3,4,7,8,9-HpCDF	ND	0.349		-	0.0469	Total HxCDF	ND	0.283	
OCDF	ND	0.550		-	0.177	Total HpCDF	ND	0.349	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 135	
13C-1,2,3,7,8-PeCDD	102	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	79.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	81.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.5	40.0 - 135	
13C-OCDD	67.2	40.0 - 135	
13C-2,3,7,8-TCDF	99.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	84.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	81.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	88.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.4	40.0 - 135	
13C-OCDF	76.0	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

Analyst: [signature]
Date: 10/28/09

Reviewed By: [signature]
Date: 10/28/09

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5788
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1536
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl_4-Cl_8)

**TEQ
☐ 1998 WHO
☐ 2005 WHO
☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-26 @ 5 ft	10-19-09	1043	S	1		X									D/F
2	-26 8 inches		1053													
3	-27 8 "		1143													
4	-28 1 ft		1143													
5	-30 8 inches		1204													
6	-31 1 ft		1219													
7	-32 1 "		1223													
8	-16 8 inches		1246													
9	-33 1 ft		1303													
10	-29 1 "		1317													
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-19-09	1730	Tom Crabtree	10/20/09	11:55 AM

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

FRONTIER ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5788**

Client:	Calscience
Client Project ID:	09-10-1536
Date Received:	10/20/2009
Time Received:	11:55 am
Received By:	TC
Logged In By:	KZ
# of Samples Received:	10
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	512853966
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/18/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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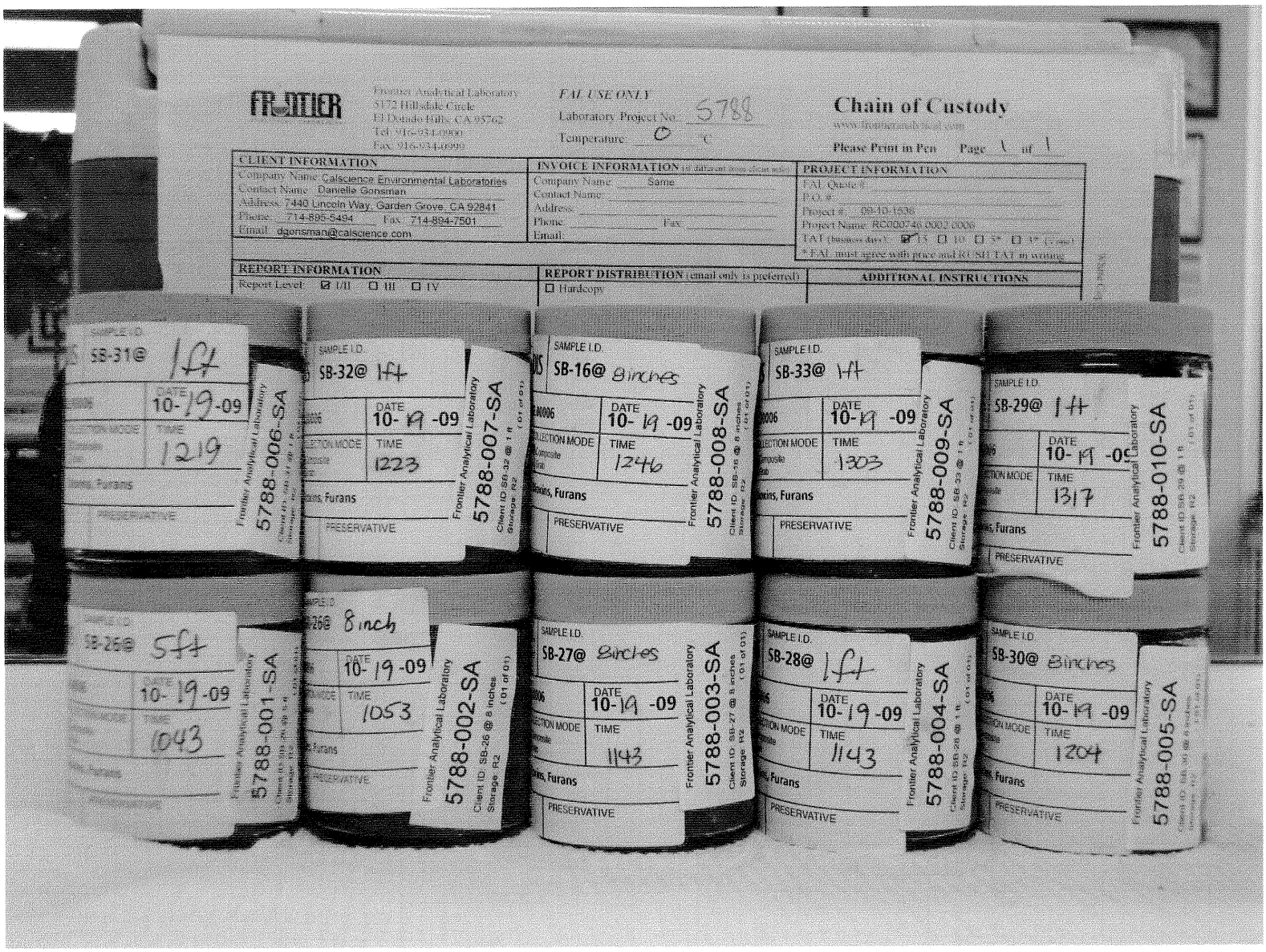
FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00006

Project Location PG&E Radback, Oakley

Laboratory Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK-CM/ARCADIS

09-10-1536

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Low level VOCs (w/MTBE) oxygenates + TPHs	TPH-D, SVOCs (w/PAHs) organochlorine pest., organophosphorus pest., PP metals / 8oz jar	Dioxins/Furans / 4oz jar	TEL	(Organic Pb)	Remarks	Total
1	SB-26@ 5ft	S	10/19/2009 1043		X	X	X	X	LK 10/19/09		6
2	SB-26@ 8inches	S	10/19/09 1053		X	X	X	X			6
3	SB-27@ 8inches	S	10/19/09 1143		X	X	X	X			6
4	SB-28@ 1ft	S	10/19/09 1143		X	X	X				6
5	SB-30@ 8inches	S	10/19/09 1204		X	X	X				6
6	SB-31@ 1ft	S	10/19/09 1219		X	X	X				6
7	SB-32@ 1ft	S	10/19/09 1223		X	X	X	X			6
8	SB-16@ 8inches	S	10/19/09 1246		X	X	X	X			6
9	SB-33@ 1ft	S	10/19/09 1303		X	X	X				6
10	SB-29@ 1ft	S	10/19/09 1317		X	X	X	X			6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 60

Relinquished by: [signature]	Organization: ARCADIS	Date 10/19/09	Time 1400	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/19/09	Time 1400	Yes No N/A	
Relinquished by: [signature] to CEL	Organization: CEL	Date 10/19/09	Time 1730	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 10/20/09	Time 1030	Yes No N/A	

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☒ Common Carrier GSO #128546000 (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No: _____
Temperature: _____ °C

Chain of Custody

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CLIENT INFORMATION
Company Name: Calscience Environmental Laboratories
Contact Name: Danielle Gonsman
Address: 7440 Lincoln Way, Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501
Email: dgonsman@calscience.com

INVOICE INFORMATION (if different from client info)
Company Name: Same
Contact Name:
Address:
Phone: Fax:
Email:

PROJECT INFORMATION
FAL Quote #:
P.O. #:
Project #: 09-10-1536
Project Name: RC000746.0002.0006
TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl_4-Cl_8)

**TEQ
☐ 1998 WHO
☐ 2005 WHO
☐ Other

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-26 @ 5 ft	10-19-09	1043	S	1		X									D/F
2	-26 8 inches		1053													
3	-27 8 "		1143													
4	-28 1 ft		1143													
5	-30 8 inches		1204													
6	-31 1 ft		1219													
7	-32 1 "		1223													
8	-16 8 inches		1246													
9	-33 1 ft		1303													
10	-29 1 "		1317													
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-19-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1536

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/20/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.0 °C - 0.2 °C (CF) = 2.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® 3 ☑ 2oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** DL

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Danielle Gonsman

From: Alan Kemp
Sent: Monday, October 19, 2009 4:40 PM
To: Danielle Gonsman
Subject: FW: coc
Attachments: Analysis plan_V2.xlsx; Arcadis coc.pdf; image001.jpg

The attached table has the complete work plan for the Oakley site so feel free to forward so the lab knows what the scope will be.

For the samples we picked up today, I subbed the Dioxins to Frontier. A copy of the sub-chain is attached to the original coc but I forgot to attach my usual post-it note before it got packed. The attached, annotated, coc is a correction to the one you will receive with the samples. They do not need SVOCs, PAHs, or PCBs on any of these samples per Kathy's confirmation below.

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

From: Brandt, Katherine [mailto:Katherine.Brandt@arcadis-us.com]
Sent: Monday, October 19, 2009 4:27 PM
To: Alan Kemp
Subject: RE: coc

Yes. That is correct. I have a proposed analysis table (attached) that we are following. No changes have been made so far. There may only be an increase in samples in the well cluster locations.

Hope this helps and not confuses more.

Kathy

From: Alan Kemp [mailto:AKemp@calscience.com]
Sent: Monday, October 19, 2009 4:25 PM
To: Brandt, Katherine
Subject: RE: coc

No problem and just so I make sure we're clear, you do not need SVOCs, PAHs, or PCBs on any of these samples, correct?

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Tel.: 925-689-9022
Fax : 925-689-9023
Cell : 925-786-8606
akemp@calscience.com

The difference is service

From: Brandt, Katherine [mailto:Katherine.Brandt@arcadis-us.com]
Sent: Monday, October 19, 2009 4:19 PM
To: Alan Kemp
Subject: RE: coc

Alan,

I am sorry for the confusion. I have put a not on this COC (attached). I will try and make sure the field team understands the need for a clear chain of custody.

Kathy

From: Alan Kemp [mailto:AKemp@calscience.com]
Sent: Monday, October 19, 2009 4:15 PM
To: Brandt, Katherine
Cc: Danielle Gonsman
Subject: coc

Kathy attached for today's samples. Let me know about any corrections and I'll make sure the lab gets the information.

Alan B. Kemp

Northern California Operations Manager
Calscience Environmental Laboratories, Inc.
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
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The difference is service

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Calscience Environmental Laboratories, Inc.

November 03, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1611**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/21/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-39@1ft	**09-10-1611-1-A**	**10/20/09 10:23**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:35**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:35:06 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.60	0.750	1		Nickel	16.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	23.5	0.250	1		Thallium	ND	0.750	1	
Copper	8.01	0.500	1		Zinc	27.1	1.00	1	
Lead	5.64	0.500	1						

SB-40@8inches	**09-10-1611-2-A**	**10/20/09 10:39**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:44**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:37:24 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	0.819	0.750	1		Mercury	ND	0.0835	1	
Arsenic	3.20	0.750	1		Nickel	20.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	0.653	0.250	1	
Chromium	70.5	0.250	1		Thallium	ND	0.750	1	
Copper	7.42	0.500	1		Zinc	25.5	1.00	1	
Lead	9.19	0.500	1						

SB-41@5inches	**09-10-1611-3-A**	**10/20/09 10:49**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:45**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:39:38 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.44	0.750	1		Nickel	12.7	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.9	0.250	1		Thallium	ND	0.750	1	
Copper	4.52	0.500	1		Zinc	13.5	1.00	1	
Lead	2.21	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1611
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-41@5ft	**09-10-1611-4-A**	**10/20/09 11:04**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:46**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:41:48 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	7.51	0.750	1		Nickel	27.0	0.250	1	
Beryllium	0.489	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	29.3	0.250	1		Thallium	ND	0.750	1	
Copper	10.1	0.500	1		Zinc	43.6	1.00	1	
Lead	6.62	0.500	1						

SB-42@1ft	**09-10-1611-5-A**	**10/20/09 11:18**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:48**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:48:31 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	3.22	0.750	1		Nickel	24.1	0.250	1	
Beryllium	0.264	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	18.2	0.250	1		Thallium	ND	0.750	1	
Copper	10.4	0.500	1		Zinc	30.8	1.00	1	
Lead	4.18	0.500	1						

SB-43@1ft	**09-10-1611-6-A**	**10/20/09 14:09**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:49**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:50:43 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.74	0.750	1		Nickel	11.5	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.09	0.250	1		Thallium	ND	0.750	1	
Copper	4.12	0.500	1		Zinc	16.7	1.00	1	
Lead	3.30	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1611
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13@1ft	**09-10-1611-7-A**	**10/20/09 14:25**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:50**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:52:56 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.70	0.750	1		Nickel	12.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.40	0.250	1		Thallium	ND	0.750	1	
Copper	4.84	0.500	1		Zinc	17.4	1.00	1	
Lead	3.71	0.500	1						

Method Blank	**099-04-007-6,614**	**N/A**	**Solid**	**Mercury**	**10/22/09**	**10/23/09 12:23**	**091022L08**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,859**	**N/A**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:29**	**091022L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-39@1ft	**09-10-1611-1-A**	**10/20/09 10:23**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 17:45**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

SB-40@8inches	**09-10-1611-2-A**	**10/20/09 10:39**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 18:01**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	61-145	

SB-41@5inches	**09-10-1611-3-A**	**10/20/09 10:49**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 18:17**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	61-145	

SB-41@5ft	**09-10-1611-4-A**	**10/20/09 11:04**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 18:34**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-42@1ft	**09-10-1611-5-A**	**10/20/09 11:18**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 18:50**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	61-145	

SB-43@1ft	**09-10-1611-6-A**	**10/20/09 14:09**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 19:11**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	61-145	

SB-13@1ft	**09-10-1611-7-A**	**10/20/09 14:25**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 19:28**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	61-145	

Method Blank	**099-12-025-878**	**N/A**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 16:24**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	76	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-39@1ft	**09-10-1611-1-A**	**10/20/09 10:23**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-40@8inches	**09-10-1611-2-A**	**10/20/09 10:39**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-41@5ft	**09-10-1611-4-A**	**10/20/09 11:04**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-42@1ft	**09-10-1611-5-A**	**10/20/09 11:18**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-43@1ft	**09-10-1611-6-A**	**10/20/09 14:09**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-13@1ft	**09-10-1611-7-A**	**10/20/09 14:25**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-020-1,271**	**N/A**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-39@1ft	**09-10-1611-1-E**	**10/20/09 10:23**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 22:10**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	2.4	5.0	1.6	1	J
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	3.2	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-135		2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

SB-40@8inches	**09-10-1611-2-B**	**10/20/09 10:39**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 22:37**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	9.7	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	83	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-41@5inches	**09-10-1611-3-B**	**10/20/09 10:49**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 12:00**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

SB-41@5ft	**09-10-1611-4-B**	**10/20/09 11:04**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 12:27**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	73	50-135		2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-42@1ft	**09-10-1611-5-B**	**10/20/09 11:18**	**Solid**	**GC 44**	**10/22/09**	**10/24/09 01:45**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

SB-43@1ft	**09-10-1611-6-B**	**10/20/09 14:09**	**Solid**	**GC 44**	**10/22/09**	**10/24/09 02:13**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13@1ft	**09-10-1611-7-B**	**10/20/09 14:25**	**Solid**	**GC 44**	**10/22/09**	**10/24/09 02:41**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	50-135		2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

Method Blank	**099-12-537-754**	**N/A**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 20:17**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-135		2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-43@1ft	**09-10-1611-6-B**	**10/20/09 14:09**	**Solid**	**GC 31**	**10/22/09**	**10/25/09 23:39**	**091022L24**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	50-130		2,4,5,6-Tetrachloro-m-Xylene	94	50-130	

SB-13@1ft	**09-10-1611-7-B**	**10/20/09 14:25**	**Solid**	**GC 31**	**10/22/09**	**10/25/09 23:58**	**091022L24**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	50-130		2,4,5,6-Tetrachloro-m-Xylene	101	50-130	

Method Blank	**099-12-535-801**	**N/A**	**Solid**	**GC 31**	**10/22/09**	**10/25/09 14:45**	**091022L24**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	50-130		2,4,5,6-Tetrachloro-m-Xylene	106	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-43@1ft	**09-10-1611-6-B**	**10/20/09 14:09**	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09 19:28**	**091021L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	104	42-120		Phenol-d6	105	46-118	
Nitrobenzene-d5	101	42-150		2-Fluorobiphenyl	100	38-134	
2,4,6-Tribromophenol	118	36-132		p-Terphenyl-d14	111	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13@1ft	**09-10-1611-7-B**	**10/20/09 14:25**	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09 19:58**	**091021L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	100	42-120		Phenol-d6	103	46-118	
Nitrobenzene-d5	98	42-150		2-Fluorobiphenyl	97	38-134	
2,4,6-Tribromophenol	120	36-132		p-Terphenyl-d14	105	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-967**	**N/A**	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09 18:57**	**091021L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	89	38-134	
2,4,6-Tribromophenol	107	36-132		p-Terphenyl-d14	94	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-39@1ft	**09-10-1611-1-E**	**10/20/09 10:23**	**Solid**	**GC 35**	**10/21/09**	**10/23/09 21:54**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	127	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-40@8inches	**09-10-1611-2-B**	**10/20/09 10:39**	**Solid**	**GC 35**	**10/21/09**	**10/23/09 22:40**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	128	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-41@5inches	**09-10-1611-3-B**	**10/20/09 10:49**	**Solid**	**GC 35**	**10/21/09**	**10/23/09 23:25**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	80	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-41@5ft	**09-10-1611-4-B**	**10/20/09 11:04**	**Solid**	**GC 35**	**10/21/09**	**10/24/09 00:11**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	62	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-42@1ft	**09-10-1611-5-B**	**10/20/09 11:18**	**Solid**	**GC 35**	**10/21/09**	**10/24/09 00:57**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	67	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-43@1ft	**09-10-1611-6-B**	**10/20/09 14:09**	**Solid**	**GC 35**	**10/21/09**	**10/24/09 01:42**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	60	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13@1ft	**09-10-1611-7-B**	**10/20/09 14:25**	**Solid**	**GC 35**	**10/21/09**	**10/24/09 02:28**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	68	30-130	

Method Blank	**099-12-465-11**	**N/A**	**Solid**	**GC 35**	**10/21/09**	**10/23/09 19:37**	**091021L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Demeton-o/s	ND	0.50	0.40	1		Fenthion	ND	0.50	0.37	1	
Azinphos Methyl	ND	0.50	0.26	1		Merphos	ND	0.50	0.21	1	
Bolstar	ND	0.50	0.061	1		Methyl Parathion	ND	0.50	0.36	1	
Chlorpyrifos	ND	0.50	0.073	1		Mevinphos	ND	0.50	0.16	1	
Coumaphos	ND	0.50	0.21	1		Naled	ND	4.0	0.25	1	
Diazinon	ND	0.50	0.42	1		Phorate	ND	0.50	0.20	1	
Dichlorvos	ND	0.50	0.33	1		Ronnel	ND	0.50	0.20	1	
Disulfoton	ND	0.50	0.16	1		Stirophos	ND	2.0	0.060	1	
Ethoprop	ND	0.50	0.19	1		Tokuthion	ND	0.50	0.19	1	
Fensulfothion	ND	0.50	0.053	1		Trichloronate	ND	0.50	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	57	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-39@1ft	**09-10-1611-1-L**	**10/20/09 10:23**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 13:43**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	130	40		0.81		c-1,3-Dichloropropene	ND	0.81		0.81	
Benzene	ND	0.81		0.81		t-1,3-Dichloropropene	ND	1.6		0.81	
Bromobenzene	ND	0.81		0.81		Ethylbenzene	ND	0.81		0.81	
Bromochloromethane	ND	1.6		0.81		2-Hexanone	ND	16		0.81	
Bromodichloromethane	ND	0.81		0.81		Isopropylbenzene	ND	0.81		0.81	
Bromoform	ND	4.0		0.81		p-Isopropyltoluene	ND	0.81		0.81	
Bromomethane	ND	16		0.81		Methylene Chloride	ND	8.1		0.81	
2-Butanone	ND	16		0.81		4-Methyl-2-Pentanone	ND	16		0.81	
n-Butylbenzene	ND	0.81		0.81		Naphthalene	ND	8.1		0.81	
sec-Butylbenzene	ND	0.81		0.81		n-Propylbenzene	ND	1.6		0.81	
tert-Butylbenzene	ND	0.81		0.81		Styrene	ND	0.81		0.81	
Carbon Disulfide	ND	8.1		0.81		1,1,1,2-Tetrachloroethane	ND	0.81		0.81	
Carbon Tetrachloride	ND	0.81		0.81		1,1,2,2-Tetrachloroethane	ND	1.6		0.81	
Chlorobenzene	ND	0.81		0.81		Tetrachloroethene	ND	0.81		0.81	
Chloroethane	ND	1.6		0.81		Toluene	ND	0.81		0.81	
Chloroform	ND	0.81		0.81		1,2,3-Trichlorobenzene	ND	1.6		0.81	
Chloromethane	ND	16		0.81		1,2,4-Trichlorobenzene	ND	1.6		0.81	
2-Chlorotoluene	ND	0.81		0.81		1,1,1-Trichloroethane	ND	0.81		0.81	
4-Chlorotoluene	ND	0.81		0.81		1,1,2-Trichloroethane	ND	0.81		0.81	
Dibromochloromethane	ND	1.6		0.81		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.1		0.81	
1,2-Dibromo-3-Chloropropane	ND	4.0		0.81		Trichloroethene	ND	1.6		0.81	
1,2-Dibromoethane	ND	0.81		0.81		Trichlorofluoromethane	ND	8.1		0.81	
Dibromomethane	ND	0.81		0.81		1,2,3-Trichloropropane	ND	1.6		0.81	
1,2-Dichlorobenzene	ND	0.81		0.81		1,2,4-Trimethylbenzene	ND	1.6		0.81	
1,3-Dichlorobenzene	ND	0.81		0.81		1,3,5-Trimethylbenzene	ND	1.6		0.81	
1,4-Dichlorobenzene	ND	0.81		0.81		Vinyl Acetate	ND	8.1		0.81	
Dichlorodifluoromethane	ND	1.6		0.81		Vinyl Chloride	ND	0.81		0.81	
1,1-Dichloroethane	ND	0.81		0.81		p/m-Xylene	ND	1.6		0.81	
1,2-Dichloroethane	ND	0.81		0.81		o-Xylene	ND	0.81		0.81	
1,1-Dichloroethene	ND	0.81		0.81		Methyl-t-Butyl Ether (MTBE)	ND	1.6		0.81	
c-1,2-Dichloroethene	ND	0.81		0.81		Tert-Butyl Alcohol (TBA)	ND	16		0.81	
t-1,2-Dichloroethene	ND	0.81		0.81		Diisopropyl Ether (DIPE)	ND	0.81		0.81	
1,2-Dichloropropane	ND	0.81		0.81		Ethyl-t-Butyl Ether (ETBE)	ND	0.81		0.81	
1,3-Dichloropropane	ND	0.81		0.81		Tert-Amyl-Methyl Ether (TAME)	ND	0.81		0.81	
2,2-Dichloropropane	ND	4.0		0.81		Ethanol	ND	400		0.81	
1,1-Dichloropropene	ND	1.6		0.81							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	71-137		1,2-Dichloroethane-d4	115	58-160	
1,4-Bromofluorobenzene	83	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-40@8inches	**09-10-1611-2-D**	**10/20/09 10:39**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 15:27**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	500	44		0.882	E	c-1,3-Dichloropropene	ND	0.88		0.882	
Benzene	ND	0.88		0.882		t-1,3-Dichloropropene	ND	1.8		0.882	
Bromobenzene	ND	0.88		0.882		Ethylbenzene	ND	0.88		0.882	
Bromochloromethane	ND	1.8		0.882		2-Hexanone	ND	18		0.882	
Bromodichloromethane	ND	0.88		0.882		Isopropylbenzene	ND	0.88		0.882	
Bromoform	ND	4.4		0.882		p-Isopropyltoluene	ND	0.88		0.882	
Bromomethane	ND	18		0.882		Methylene Chloride	ND	8.8		0.882	
2-Butanone	ND	18		0.882		4-Methyl-2-Pentanone	ND	18		0.882	
n-Butylbenzene	ND	0.88		0.882		Naphthalene	ND	8.8		0.882	
sec-Butylbenzene	ND	0.88		0.882		n-Propylbenzene	ND	1.8		0.882	
tert-Butylbenzene	ND	0.88		0.882		Styrene	ND	0.88		0.882	
Carbon Disulfide	ND	8.8		0.882		1,1,1,2-Tetrachloroethane	ND	0.88		0.882	
Carbon Tetrachloride	ND	0.88		0.882		1,1,2,2-Tetrachloroethane	ND	1.8		0.882	
Chlorobenzene	ND	0.88		0.882		Tetrachloroethene	ND	0.88		0.882	
Chloroethane	ND	1.8		0.882		Toluene	ND	0.88		0.882	
Chloroform	ND	0.88		0.882		1,2,3-Trichlorobenzene	ND	1.8		0.882	
Chloromethane	ND	18		0.882		1,2,4-Trichlorobenzene	ND	1.8		0.882	
2-Chlorotoluene	ND	0.88		0.882		1,1,1-Trichloroethane	ND	0.88		0.882	
4-Chlorotoluene	ND	0.88		0.882		1,1,2-Trichloroethane	ND	0.88		0.882	
Dibromochloromethane	ND	1.8		0.882		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.8		0.882	
1,2-Dibromo-3-Chloropropane	ND	4.4		0.882		Trichloroethene	ND	1.8		0.882	
1,2-Dibromoethane	ND	0.88		0.882		Trichlorofluoromethane	ND	8.8		0.882	
Dibromomethane	ND	0.88		0.882		1,2,3-Trichloropropane	ND	1.8		0.882	
1,2-Dichlorobenzene	ND	0.88		0.882		1,2,4-Trimethylbenzene	ND	1.8		0.882	
1,3-Dichlorobenzene	ND	0.88		0.882		1,3,5-Trimethylbenzene	ND	1.8		0.882	
1,4-Dichlorobenzene	ND	0.88		0.882		Vinyl Acetate	ND	8.8		0.882	
Dichlorodifluoromethane	ND	1.8		0.882		Vinyl Chloride	ND	0.88		0.882	
1,1-Dichloroethane	ND	0.88		0.882		p/m-Xylene	ND	1.8		0.882	
1,2-Dichloroethane	ND	0.88		0.882		o-Xylene	ND	0.88		0.882	
1,1-Dichloroethene	ND	0.88		0.882		Methyl-t-Butyl Ether (MTBE)	ND	1.8		0.882	
c-1,2-Dichloroethene	ND	0.88		0.882		Tert-Butyl Alcohol (TBA)	ND	18		0.882	
t-1,2-Dichloroethene	ND	0.88		0.882		Diisopropyl Ether (DIPE)	ND	0.88		0.882	
1,2-Dichloropropane	ND	0.88		0.882		Ethyl-t-Butyl Ether (ETBE)	ND	0.88		0.882	
1,3-Dichloropropane	ND	0.88		0.882		Tert-Amyl-Methyl Ether (TAME)	ND	0.88		0.882	
2,2-Dichloropropane	ND	4.4		0.882		Ethanol	ND	440		0.882	
1,1-Dichloropropene	ND	1.8		0.882							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	71-137		1,2-Dichloroethane-d4	117	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-40@8inches	**09-10-1611-2-F**	**10/20/09 10:39**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 12:20**	**091026L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	2400	300	47.2	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	110	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-41@5inches	**09-10-1611-3-D**	**10/20/09 10:49**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 15:53**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	100	50		0.992		c-1,3-Dichloropropene	ND	0.99		0.992	
Benzene	ND	0.99		0.992		t-1,3-Dichloropropene	ND	2.0		0.992	
Bromobenzene	ND	0.99		0.992		Ethylbenzene	ND	0.99		0.992	
Bromochloromethane	ND	2.0		0.992		2-Hexanone	ND	20		0.992	
Bromodichloromethane	ND	0.99		0.992		Isopropylbenzene	ND	0.99		0.992	
Bromoform	ND	5.0		0.992		p-Isopropyltoluene	ND	0.99		0.992	
Bromomethane	ND	20		0.992		Methylene Chloride	ND	9.9		0.992	
2-Butanone	ND	20		0.992		4-Methyl-2-Pentanone	ND	20		0.992	
n-Butylbenzene	ND	0.99		0.992		Naphthalene	ND	9.9		0.992	
sec-Butylbenzene	ND	0.99		0.992		n-Propylbenzene	ND	2.0		0.992	
tert-Butylbenzene	ND	0.99		0.992		Styrene	ND	0.99		0.992	
Carbon Disulfide	ND	9.9		0.992		1,1,1,2-Tetrachloroethane	ND	0.99		0.992	
Carbon Tetrachloride	ND	0.99		0.992		1,1,2,2-Tetrachloroethane	ND	2.0		0.992	
Chlorobenzene	ND	0.99		0.992		Tetrachloroethene	ND	0.99		0.992	
Chloroethane	ND	2.0		0.992		Toluene	ND	0.99		0.992	
Chloroform	ND	0.99		0.992		1,2,3-Trichlorobenzene	ND	2.0		0.992	
Chloromethane	ND	20		0.992		1,2,4-Trichlorobenzene	ND	2.0		0.992	
2-Chlorotoluene	ND	0.99		0.992		1,1,1-Trichloroethane	ND	0.99		0.992	
4-Chlorotoluene	ND	0.99		0.992		1,1,2-Trichloroethane	ND	0.99		0.992	
Dibromochloromethane	ND	2.0		0.992		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.9		0.992	
1,2-Dibromo-3-Chloropropane	ND	5.0		0.992		Trichloroethene	ND	2.0		0.992	
1,2-Dibromoethane	ND	0.99		0.992		Trichlorofluoromethane	ND	9.9		0.992	
Dibromomethane	ND	0.99		0.992		1,2,3-Trichloropropane	ND	2.0		0.992	
1,2-Dichlorobenzene	ND	0.99		0.992		1,2,4-Trimethylbenzene	ND	2.0		0.992	
1,3-Dichlorobenzene	ND	0.99		0.992		1,3,5-Trimethylbenzene	ND	2.0		0.992	
1,4-Dichlorobenzene	ND	0.99		0.992		Vinyl Acetate	ND	9.9		0.992	
Dichlorodifluoromethane	ND	2.0		0.992		Vinyl Chloride	ND	0.99		0.992	
1,1-Dichloroethane	ND	0.99		0.992		p/m-Xylene	ND	2.0		0.992	
1,2-Dichloroethane	ND	0.99		0.992		o-Xylene	ND	0.99		0.992	
1,1-Dichloroethene	ND	0.99		0.992		Methyl-t-Butyl Ether (MTBE)	ND	2.0		0.992	
c-1,2-Dichloroethene	ND	0.99		0.992		Tert-Butyl Alcohol (TBA)	ND	20		0.992	
t-1,2-Dichloroethene	ND	0.99		0.992		Diisopropyl Ether (DIPE)	ND	0.99		0.992	
1,2-Dichloropropane	ND	0.99		0.992		Ethyl-t-Butyl Ether (ETBE)	ND	0.99		0.992	
1,3-Dichloropropane	ND	0.99		0.992		Tert-Amyl-Methyl Ether (TAME)	ND	0.99		0.992	
2,2-Dichloropropane	ND	5.0		0.992		Ethanol	ND	500		0.992	
1,1-Dichloropropene	ND	2.0		0.992							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-41@5ft	**09-10-1611-4-D**	**10/20/09 11:04**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 16:19**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	49		0.973		c-1,3-Dichloropropene	ND	0.97		0.973	
Benzene	ND	0.97		0.973		t-1,3-Dichloropropene	ND	1.9		0.973	
Bromobenzene	ND	0.97		0.973		Ethylbenzene	ND	0.97		0.973	
Bromochloromethane	ND	1.9		0.973		2-Hexanone	ND	19		0.973	
Bromodichloromethane	ND	0.97		0.973		Isopropylbenzene	ND	0.97		0.973	
Bromoform	ND	4.9		0.973		p-Isopropyltoluene	ND	0.97		0.973	
Bromomethane	ND	19		0.973		Methylene Chloride	ND	9.7		0.973	
2-Butanone	ND	19		0.973		4-Methyl-2-Pentanone	ND	19		0.973	
n-Butylbenzene	ND	0.97		0.973		Naphthalene	ND	9.7		0.973	
sec-Butylbenzene	ND	0.97		0.973		n-Propylbenzene	ND	1.9		0.973	
tert-Butylbenzene	ND	0.97		0.973		Styrene	ND	0.97		0.973	
Carbon Disulfide	ND	9.7		0.973		1,1,1,2-Tetrachloroethane	ND	0.97		0.973	
Carbon Tetrachloride	ND	0.97		0.973		1,1,2,2-Tetrachloroethane	ND	1.9		0.973	
Chlorobenzene	ND	0.97		0.973		Tetrachloroethene	ND	0.97		0.973	
Chloroethane	ND	1.9		0.973		Toluene	ND	0.97		0.973	
Chloroform	ND	0.97		0.973		1,2,3-Trichlorobenzene	ND	1.9		0.973	
Chloromethane	ND	19		0.973		1,2,4-Trichlorobenzene	ND	1.9		0.973	
2-Chlorotoluene	ND	0.97		0.973		1,1,1-Trichloroethane	ND	0.97		0.973	
4-Chlorotoluene	ND	0.97		0.973		1,1,2-Trichloroethane	ND	0.97		0.973	
Dibromochloromethane	ND	1.9		0.973		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7		0.973	
1,2-Dibromo-3-Chloropropane	ND	4.9		0.973		Trichloroethene	ND	1.9		0.973	
1,2-Dibromoethane	ND	0.97		0.973		Trichlorofluoromethane	ND	9.7		0.973	
Dibromomethane	ND	0.97		0.973		1,2,3-Trichloropropane	ND	1.9		0.973	
1,2-Dichlorobenzene	ND	0.97		0.973		1,2,4-Trimethylbenzene	ND	1.9		0.973	
1,3-Dichlorobenzene	ND	0.97		0.973		1,3,5-Trimethylbenzene	ND	1.9		0.973	
1,4-Dichlorobenzene	ND	0.97		0.973		Vinyl Acetate	ND	9.7		0.973	
Dichlorodifluoromethane	ND	1.9		0.973		Vinyl Chloride	ND	0.97		0.973	
1,1-Dichloroethane	ND	0.97		0.973		p/m-Xylene	ND	1.9		0.973	
1,2-Dichloroethane	ND	0.97		0.973		o-Xylene	ND	0.97		0.973	
1,1-Dichloroethene	ND	0.97		0.973		Methyl-t-Butyl Ether (MTBE)	ND	1.9		0.973	
c-1,2-Dichloroethene	ND	0.97		0.973		Tert-Butyl Alcohol (TBA)	ND	19		0.973	
t-1,2-Dichloroethene	ND	0.97		0.973		Diisopropyl Ether (DIPE)	ND	0.97		0.973	
1,2-Dichloropropane	ND	0.97		0.973		Ethyl-t-Butyl Ether (ETBE)	ND	0.97		0.973	
1,3-Dichloropropane	ND	0.97		0.973		Tert-Amyl-Methyl Ether (TAME)	ND	0.97		0.973	
2,2-Dichloropropane	ND	4.9		0.973		Ethanol	ND	490		0.973	
1,1-Dichloropropene	ND	1.9		0.973							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-42@1ft	**09-10-1611-5-D**	**10/20/09 11:18**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 16:44**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	110	45		0.909		c-1,3-Dichloropropene	ND	0.91		0.909	
Benzene	ND	0.91		0.909		t-1,3-Dichloropropene	ND	1.8		0.909	
Bromobenzene	ND	0.91		0.909		Ethylbenzene	ND	0.91		0.909	
Bromochloromethane	ND	1.8		0.909		2-Hexanone	ND	18		0.909	
Bromodichloromethane	ND	0.91		0.909		Isopropylbenzene	ND	0.91		0.909	
Bromoform	ND	4.5		0.909		p-Isopropyltoluene	ND	0.91		0.909	
Bromomethane	ND	18		0.909		Methylene Chloride	ND	9.1		0.909	
2-Butanone	ND	18		0.909		4-Methyl-2-Pentanone	ND	18		0.909	
n-Butylbenzene	ND	0.91		0.909		Naphthalene	ND	9.1		0.909	
sec-Butylbenzene	ND	0.91		0.909		n-Propylbenzene	ND	1.8		0.909	
tert-Butylbenzene	ND	0.91		0.909		Styrene	ND	0.91		0.909	
Carbon Disulfide	ND	9.1		0.909		1,1,1,2-Tetrachloroethane	ND	0.91		0.909	
Carbon Tetrachloride	ND	0.91		0.909		1,1,2,2-Tetrachloroethane	ND	1.8		0.909	
Chlorobenzene	ND	0.91		0.909		Tetrachloroethene	ND	0.91		0.909	
Chloroethane	ND	1.8		0.909		Toluene	ND	0.91		0.909	
Chloroform	ND	0.91		0.909		1,2,3-Trichlorobenzene	ND	1.8		0.909	
Chloromethane	ND	18		0.909		1,2,4-Trichlorobenzene	ND	1.8		0.909	
2-Chlorotoluene	ND	0.91		0.909		1,1,1-Trichloroethane	ND	0.91		0.909	
4-Chlorotoluene	ND	0.91		0.909		1,1,2-Trichloroethane	ND	0.91		0.909	
Dibromochloromethane	ND	1.8		0.909		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.1		0.909	
1,2-Dibromo-3-Chloropropane	ND	4.5		0.909		Trichloroethene	ND	1.8		0.909	
1,2-Dibromoethane	ND	0.91		0.909		Trichlorofluoromethane	ND	9.1		0.909	
Dibromomethane	ND	0.91		0.909		1,2,3-Trichloropropane	ND	1.8		0.909	
1,2-Dichlorobenzene	ND	0.91		0.909		1,2,4-Trimethylbenzene	ND	1.8		0.909	
1,3-Dichlorobenzene	ND	0.91		0.909		1,3,5-Trimethylbenzene	ND	1.8		0.909	
1,4-Dichlorobenzene	ND	0.91		0.909		Vinyl Acetate	ND	9.1		0.909	
Dichlorodifluoromethane	ND	1.8		0.909		Vinyl Chloride	ND	0.91		0.909	
1,1-Dichloroethane	ND	0.91		0.909		p/m-Xylene	ND	1.8		0.909	
1,2-Dichloroethane	ND	0.91		0.909		o-Xylene	ND	0.91		0.909	
1,1-Dichloroethene	ND	0.91		0.909		Methyl-t-Butyl Ether (MTBE)	ND	1.8		0.909	
c-1,2-Dichloroethene	ND	0.91		0.909		Tert-Butyl Alcohol (TBA)	ND	18		0.909	
t-1,2-Dichloroethene	ND	0.91		0.909		Diisopropyl Ether (DIPE)	ND	0.91		0.909	
1,2-Dichloropropane	ND	0.91		0.909		Ethyl-t-Butyl Ether (ETBE)	ND	0.91		0.909	
1,3-Dichloropropane	ND	0.91		0.909		Tert-Amyl-Methyl Ether (TAME)	ND	0.91		0.909	
2,2-Dichloropropane	ND	4.5		0.909		Ethanol	ND	450		0.909	
1,1-Dichloropropene	ND	1.8		0.909							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-43@1ft	**09-10-1611-6-D**	**10/20/09 14:09**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 17:10**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	80	49		0.975		c-1,3-Dichloropropene	ND	0.98		0.975	
Benzene	ND	0.98		0.975		t-1,3-Dichloropropene	ND	2.0		0.975	
Bromobenzene	ND	0.98		0.975		Ethylbenzene	ND	0.98		0.975	
Bromochloromethane	ND	2.0		0.975		2-Hexanone	ND	20		0.975	
Bromodichloromethane	ND	0.98		0.975		Isopropylbenzene	ND	0.98		0.975	
Bromoform	ND	4.9		0.975		p-Isopropyltoluene	ND	0.98		0.975	
Bromomethane	ND	20		0.975		Methylene Chloride	ND	9.8		0.975	
2-Butanone	ND	20		0.975		4-Methyl-2-Pentanone	ND	20		0.975	
n-Butylbenzene	ND	0.98		0.975		Naphthalene	ND	9.8		0.975	
sec-Butylbenzene	ND	0.98		0.975		n-Propylbenzene	ND	2.0		0.975	
tert-Butylbenzene	ND	0.98		0.975		Styrene	ND	0.98		0.975	
Carbon Disulfide	ND	9.8		0.975		1,1,1,2-Tetrachloroethane	ND	0.98		0.975	
Carbon Tetrachloride	ND	0.98		0.975		1,1,2,2-Tetrachloroethane	ND	2.0		0.975	
Chlorobenzene	ND	0.98		0.975		Tetrachloroethene	ND	0.98		0.975	
Chloroethane	ND	2.0		0.975		Toluene	ND	0.98		0.975	
Chloroform	ND	0.98		0.975		1,2,3-Trichlorobenzene	ND	2.0		0.975	
Chloromethane	ND	20		0.975		1,2,4-Trichlorobenzene	ND	2.0		0.975	
2-Chlorotoluene	ND	0.98		0.975		1,1,1-Trichloroethane	ND	0.98		0.975	
4-Chlorotoluene	ND	0.98		0.975		1,1,2-Trichloroethane	ND	0.98		0.975	
Dibromochloromethane	ND	2.0		0.975		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.8		0.975	
1,2-Dibromo-3-Chloropropane	ND	4.9		0.975		Trichloroethene	ND	2.0		0.975	
1,2-Dibromoethane	ND	0.98		0.975		Trichlorofluoromethane	ND	9.8		0.975	
Dibromomethane	ND	0.98		0.975		1,2,3-Trichloropropane	ND	2.0		0.975	
1,2-Dichlorobenzene	ND	0.98		0.975		1,2,4-Trimethylbenzene	ND	2.0		0.975	
1,3-Dichlorobenzene	ND	0.98		0.975		1,3,5-Trimethylbenzene	ND	2.0		0.975	
1,4-Dichlorobenzene	ND	0.98		0.975		Vinyl Acetate	ND	9.8		0.975	
Dichlorodifluoromethane	ND	2.0		0.975		Vinyl Chloride	ND	0.98		0.975	
1,1-Dichloroethane	ND	0.98		0.975		p/m-Xylene	ND	2.0		0.975	
1,2-Dichloroethane	ND	0.98		0.975		o-Xylene	ND	0.98		0.975	
1,1-Dichloroethene	ND	0.98		0.975		Methyl-t-Butyl Ether (MTBE)	ND	2.0		0.975	
c-1,2-Dichloroethene	ND	0.98		0.975		Tert-Butyl Alcohol (TBA)	ND	20		0.975	
t-1,2-Dichloroethene	ND	0.98		0.975		Diisopropyl Ether (DIPE)	ND	0.98		0.975	
1,2-Dichloropropane	ND	0.98		0.975		Ethyl-t-Butyl Ether (ETBE)	ND	0.98		0.975	
1,3-Dichloropropane	ND	0.98		0.975		Tert-Amyl-Methyl Ether (TAME)	ND	0.98		0.975	
2,2-Dichloropropane	ND	4.9		0.975		Ethanol	ND	490		0.975	
1,1-Dichloropropene	ND	2.0		0.975							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	115	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13@1ft	**09-10-1611-7-D**	**10/20/09 14:25**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 17:36**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	92	44		0.877		c-1,3-Dichloropropene	ND	0.88		0.877	
Benzene	ND	0.88		0.877		t-1,3-Dichloropropene	ND	1.8		0.877	
Bromobenzene	ND	0.88		0.877		Ethylbenzene	ND	0.88		0.877	
Bromochloromethane	ND	1.8		0.877		2-Hexanone	ND	18		0.877	
Bromodichloromethane	ND	0.88		0.877		Isopropylbenzene	ND	0.88		0.877	
Bromoform	ND	4.4		0.877		p-Isopropyltoluene	ND	0.88		0.877	
Bromomethane	ND	18		0.877		Methylene Chloride	ND	8.8		0.877	
2-Butanone	ND	18		0.877		4-Methyl-2-Pentanone	ND	18		0.877	
n-Butylbenzene	ND	0.88		0.877		Naphthalene	ND	8.8		0.877	
sec-Butylbenzene	ND	0.88		0.877		n-Propylbenzene	ND	1.8		0.877	
tert-Butylbenzene	ND	0.88		0.877		Styrene	ND	0.88		0.877	
Carbon Disulfide	ND	8.8		0.877		1,1,1,2-Tetrachloroethane	ND	0.88		0.877	
Carbon Tetrachloride	ND	0.88		0.877		1,1,2,2-Tetrachloroethane	ND	1.8		0.877	
Chlorobenzene	ND	0.88		0.877		Tetrachloroethene	ND	0.88		0.877	
Chloroethane	ND	1.8		0.877		Toluene	ND	0.88		0.877	
Chloroform	ND	0.88		0.877		1,2,3-Trichlorobenzene	ND	1.8		0.877	
Chloromethane	ND	18		0.877		1,2,4-Trichlorobenzene	ND	1.8		0.877	
2-Chlorotoluene	ND	0.88		0.877		1,1,1-Trichloroethane	ND	0.88		0.877	
4-Chlorotoluene	ND	0.88		0.877		1,1,2-Trichloroethane	ND	0.88		0.877	
Dibromochloromethane	ND	1.8		0.877		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.8		0.877	
1,2-Dibromo-3-Chloropropane	ND	4.4		0.877		Trichloroethene	ND	1.8		0.877	
1,2-Dibromoethane	ND	0.88		0.877		Trichlorofluoromethane	ND	8.8		0.877	
Dibromomethane	ND	0.88		0.877		1,2,3-Trichloropropane	ND	1.8		0.877	
1,2-Dichlorobenzene	ND	0.88		0.877		1,2,4-Trimethylbenzene	ND	1.8		0.877	
1,3-Dichlorobenzene	ND	0.88		0.877		1,3,5-Trimethylbenzene	ND	1.8		0.877	
1,4-Dichlorobenzene	ND	0.88		0.877		Vinyl Acetate	ND	8.8		0.877	
Dichlorodifluoromethane	ND	1.8		0.877		Vinyl Chloride	ND	0.88		0.877	
1,1-Dichloroethane	ND	0.88		0.877		p/m-Xylene	ND	1.8		0.877	
1,2-Dichloroethane	ND	0.88		0.877		o-Xylene	ND	0.88		0.877	
1,1-Dichloroethene	ND	0.88		0.877		Methyl-t-Butyl Ether (MTBE)	ND	1.8		0.877	
c-1,2-Dichloroethene	ND	0.88		0.877		Tert-Butyl Alcohol (TBA)	ND	18		0.877	
t-1,2-Dichloroethene	ND	0.88		0.877		Diisopropyl Ether (DIPE)	ND	0.88		0.877	
1,2-Dichloropropane	ND	0.88		0.877		Ethyl-t-Butyl Ether (ETBE)	ND	0.88		0.877	
1,3-Dichloropropane	ND	0.88		0.877		Tert-Amyl-Methyl Ether (TAME)	ND	0.88		0.877	
2,2-Dichloropropane	ND	4.4		0.877		Ethanol	ND	440		0.877	
1,1-Dichloropropene	ND	1.8		0.877							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,391**	**N/A**	**Solid**	**GC/MS VV**	**10/24/09**	**10/24/09 12:00**	**091024L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50		1		c-1,3-Dichloropropene	ND	1.0		1	
Benzene	ND	1.0		1		t-1,3-Dichloropropene	ND	2.0		1	
Bromobenzene	ND	1.0		1		Ethylbenzene	ND	1.0		1	
Bromochloromethane	ND	2.0		1		2-Hexanone	ND	20		1	
Bromodichloromethane	ND	1.0		1		Isopropylbenzene	ND	1.0		1	
Bromoform	ND	5.0		1		p-Isopropyltoluene	ND	1.0		1	
Bromomethane	ND	20		1		Methylene Chloride	ND	10		1	
2-Butanone	ND	20		1		4-Methyl-2-Pentanone	ND	20		1	
n-Butylbenzene	ND	1.0		1		Naphthalene	ND	10		1	
sec-Butylbenzene	ND	1.0		1		n-Propylbenzene	ND	2.0		1	
tert-Butylbenzene	ND	1.0		1		Styrene	ND	1.0		1	
Carbon Disulfide	ND	10		1		1,1,1,2-Tetrachloroethane	ND	1.0		1	
Carbon Tetrachloride	ND	1.0		1		1,1,2,2-Tetrachloroethane	ND	2.0		1	
Chlorobenzene	ND	1.0		1		Tetrachloroethene	ND	1.0		1	
Chloroethane	ND	2.0		1		Toluene	ND	1.0		1	
Chloroform	ND	1.0		1		1,2,3-Trichlorobenzene	ND	2.0		1	
Chloromethane	ND	20		1		1,2,4-Trichlorobenzene	ND	2.0		1	
2-Chlorotoluene	ND	1.0		1		1,1,1-Trichloroethane	ND	1.0		1	
4-Chlorotoluene	ND	1.0		1		1,1,2-Trichloroethane	ND	1.0		1	
Dibromochloromethane	ND	2.0		1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10		1	
1,2-Dibromo-3-Chloropropane	ND	5.0		1		Trichloroethene	ND	2.0		1	
1,2-Dibromoethane	ND	1.0		1		Trichlorofluoromethane	ND	10		1	
Dibromomethane	ND	1.0		1		1,2,3-Trichloropropane	ND	2.0		1	
1,2-Dichlorobenzene	ND	1.0		1		1,2,4-Trimethylbenzene	ND	2.0		1	
1,3-Dichlorobenzene	ND	1.0		1		1,3,5-Trimethylbenzene	ND	2.0		1	
1,4-Dichlorobenzene	ND	1.0		1		Vinyl Acetate	ND	10		1	
Dichlorodifluoromethane	ND	2.0		1		Vinyl Chloride	ND	1.0		1	
1,1-Dichloroethane	ND	1.0		1		p/m-Xylene	ND	2.0		1	
1,2-Dichloroethane	ND	1.0		1		o-Xylene	ND	1.0		1	
1,1-Dichloroethene	ND	1.0		1		Methyl-t-Butyl Ether (MTBE)	ND	2.0		1	
c-1,2-Dichloroethene	ND	1.0		1		Tert-Butyl Alcohol (TBA)	ND	20		1	
t-1,2-Dichloroethene	ND	1.0		1		Diisopropyl Ether (DIPE)	ND	1.0		1	
1,2-Dichloropropane	ND	1.0		1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0		1	
1,3-Dichloropropane	ND	1.0		1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0		1	
2,2-Dichloropropane	ND	5.0		1		Ethanol	ND	500		1	
1,1-Dichloropropene	ND	2.0		1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	111	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,397**	**N/A**	**Solid**	**GC/MS VV**	**10/26/09**	**10/26/09 11:29**	**091026L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	5000	640	100		c-1,3-Dichloropropene	ND	100	18	100	
Benzene	ND	100	13	100		t-1,3-Dichloropropene	ND	200	190	100	
Bromobenzene	ND	100	21	100		Ethylbenzene	ND	100	15	100	
Bromochloromethane	ND	200	140	100		2-Hexanone	ND	2000	560	100	
Bromodichloromethane	ND	100	15	100		Isopropylbenzene	ND	100	12	100	
Bromoform	ND	500	66	100		p-Isopropyltoluene	ND	100	12	100	
Bromomethane	ND	2000	180	100		Methylene Chloride	ND	1000	520	100	
2-Butanone	ND	2000	960	100		4-Methyl-2-Pentanone	ND	2000	200	100	
n-Butylbenzene	ND	100	22	100		Naphthalene	ND	1000	33	100	
sec-Butylbenzene	ND	100	10	100		n-Propylbenzene	ND	200	100	100	
tert-Butylbenzene	ND	100	12	100		Styrene	ND	100	21	100	
Carbon Disulfide	ND	1000	18	100		1,1,1,2-Tetrachloroethane	ND	100	33	100	
Carbon Tetrachloride	ND	100	32	100		1,1,2,2-Tetrachloroethane	ND	200	23	100	
Chlorobenzene	ND	100	15	100		Tetrachloroethene	ND	100	17	100	
Chloroethane	ND	200	42	100		Toluene	ND	100	15	100	
Chloroform	ND	100	17	100		1,2,3-Trichlorobenzene	ND	200	20	100	
Chloromethane	ND	2000	290	100		1,2,4-Trichlorobenzene	ND	200	18	100	
2-Chlorotoluene	ND	100	12	100		1,1,1-Trichloroethane	ND	100	25	100	
4-Chlorotoluene	ND	100	10	100		1,1,2-Trichloroethane	ND	100	24	100	
Dibromochloromethane	ND	200	20	100		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	47	100	
1,2-Dibromo-3-Chloropropane	ND	500	370	100		Trichloroethene	ND	200	18	100	
1,2-Dibromoethane	ND	100	45	100		Trichlorofluoromethane	ND	1000	16	100	
Dibromomethane	ND	100	70	100		1,2,3-Trichloropropane	ND	200	65	100	
1,2-Dichlorobenzene	ND	100	13	100		1,2,4-Trimethylbenzene	ND	200	12	100	
1,3-Dichlorobenzene	ND	100	16	100		1,3,5-Trimethylbenzene	ND	200	9.9	100	
1,4-Dichlorobenzene	ND	100	15	100		Vinyl Acetate	ND	1000	750	100	
Dichlorodifluoromethane	ND	200	19	100		Vinyl Chloride	ND	100	21	100	
1,1-Dichloroethane	ND	100	16	100		p/m-Xylene	ND	200	20	100	
1,2-Dichloroethane	ND	100	17	100		o-Xylene	ND	100	11	100	
1,1-Dichloroethene	ND	100	14	100		Methyl-t-Butyl Ether (MTBE)	ND	200	13	100	
c-1,2-Dichloroethene	ND	100	28	100		Tert-Butyl Alcohol (TBA)	ND	2000	1500	100	
t-1,2-Dichloroethene	ND	100	25	100		Diisopropyl Ether (DIPE)	ND	100	25	100	
1,2-Dichloropropane	ND	100	27	100		Ethyl-t-Butyl Ether (ETBE)	ND	100	21	100	
1,3-Dichloropropane	ND	100	18	100		Tert-Amyl-Methyl Ether (TAME)	ND	100	13	100	
2,2-Dichloropropane	ND	500	46	100		Ethanol	ND	50000	5500	100	
1,1-Dichloropropene	ND	200	22	100							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	71-137		1,2-Dichloroethane-d4	112	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09**	**091022S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	24	24	50-115	1	0-20	3
Arsenic	106	106	75-125	0	0-20	
Beryllium	103	102	75-125	1	0-20	
Cadmium	99	97	75-125	2	0-20	
Chromium	96	103	75-125	4	0-20	
Copper	111	108	75-125	2	0-20	
Lead	102	99	75-125	2	0-20	
Nickel	115	112	75-125	2	0-20	
Selenium	93	91	75-125	2	0-20	
Silver	114	113	75-125	1	0-20	
Thallium	98	97	75-125	0	0-20	
Zinc	118	109	75-125	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**GC 47**	**10/22/09**	**10/22/09**	**091022S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	84	84	64-130	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**FLAA2**	**10/27/09**	**10/27/09**	**091027S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	83	78	22-148	6	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**Mercury**	**10/22/09**	**10/23/09**	**091022S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	123	112	71-137	10	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
SB-39@1ft	**Solid**	**Mercury**	**10/22/09**	**10/23/09**	**091022S08**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	103	75-125	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1611
Preparation: EPA 3545
Method: EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**GC 44**	**10/22/09**	**10/26/09**	**091022S17**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	97	97	50-135	0	0-25	
Gamma-BHC	98	98	50-135	0	0-25	
Beta-BHC	113	103	50-135	10	0-25	
Heptachlor	96	95	50-135	1	0-25	
Delta-BHC	105	102	50-135	2	0-25	
Aldrin	93	91	50-135	2	0-25	
Heptachlor Epoxide	89	88	50-135	1	0-25	
Endosulfan I	83	85	50-135	3	0-25	
Dieldrin	94	92	50-135	3	0-25	
4,4'-DDE	134	121	50-135	10	0-25	
Endrin	111	108	50-135	2	0-25	
Endrin Aldehyde	93	95	50-135	2	0-25	
4,4'-DDD	104	100	50-135	4	0-25	
Endosulfan II	94	91	50-135	2	0-25	
4,4'-DDT	116	108	50-135	7	0-25	
Endosulfan Sulfate	90	88	50-135	1	0-25	
Methoxychlor	110	105	50-135	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1658-1	**Solid**	**GC 31**	**10/22/09**	**10/25/09**	**091022S24**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	90	97	50-135	7	0-25	
Aroclor-1260	110	114	50-135	3	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1611
Preparation: EPA 3545
Method: EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1632-1	**Solid**	**GC/MS TT**	**10/21/09**	**10/24/09**	**091021S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	84	93	57-123	10	0-16	
2-Chlorophenol	89	98	57-111	11	0-17	
1,4-Dichlorobenzene	93	102	49-127	10	0-20	
N-Nitroso-di-n-propylamine	86	94	54-144	9	0-17	
1,2,4-Trichlorobenzene	101	110	42-132	8	0-20	
Naphthalene	88	95	50-150	8	0-20	
4-Chloro-3-Methylphenol	92	100	50-128	8	0-17	
Dimethyl Phthalate	87	91	50-150	4	0-20	
Acenaphthylene	88	90	50-150	2	0-20	
Acenaphthene	93	97	49-133	4	0-18	
4-Nitrophenol	69	69	30-144	0	0-21	
2,4-Dinitrotoluene	83	90	50-128	8	0-18	
Fluorene	87	90	50-150	3	0-20	
Pentachlorophenol	93	100	29-113	7	0-22	
Pyrene	141	144	47-149	2	0-20	
Butyl Benzyl Phthalate	128	132	50-150	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1611
Preparation: EPA 3545
Method: EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**GC 35**	**10/21/09**	**10/23/09**	**091021S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	96	60	30-130	47	0-30	4
Bolstar	79	53	30-130	39	0-30	4
Chlorpyrifos	87	53	30-130	49	0-30	4
Coumaphos	95	60	30-130	45	0-30	4
Diazinon	112	56	30-130	66	0-30	4
Disulfoton	113	64	30-130	55	0-30	4
Ethoprop	83	59	30-130	34	0-30	4
Fensulfothion	90	56	30-130	45	0-30	4
Fenthion	98	60	30-130	48	0-30	4
Merphos	89	56	30-130	45	0-30	4
Methyl Parathion	93	57	30-130	48	0-30	4
Phorate	76	71	30-130	7	0-30	
Ronnel	89	53	30-130	50	0-30	4
Stirophos	67	40	30-130	51	0-30	4
Tokuthion	79	50	30-130	45	0-30	4
Trichloronate	100	57	30-130	55	0-30	4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1611
Preparation:	EPA 5035
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-39@1ft	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09**	**091024S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	86	90	40-142	5	0-18	
Carbon Tetrachloride	90	97	37-139	7	0-20	
Chlorobenzene	82	87	43-127	6	0-26	
1,2-Dibromoethane	80	85	70-130	6	0-30	
1,2-Dichlorobenzene	70	71	40-160	1	0-36	
1,1-Dichloroethene	90	96	16-178	5	0-25	
Ethylbenzene	88	94	70-130	6	0-30	
Toluene	81	85	44-128	5	0-15	
Trichloroethene	84	88	47-131	5	0-19	
Vinyl Chloride	86	94	29-161	9	0-42	
Methyl-t-Butyl Ether (MTBE)	86	92	42-150	7	0-34	
Tert-Butyl Alcohol (TBA)	88	97	61-109	10	0-47	
Diisopropyl Ether (DIPE)	96	101	73-133	5	0-25	
Ethyl-t-Butyl Ether (ETBE)	92	96	73-132	4	0-25	
Tert-Amyl-Methyl Ether (TAME)	89	93	82-120	4	0-25	
Ethanol	64	74	39-117	13	0-99	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1611
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,859	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09**	**091022L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	95	96	80-120	73-127	1	0-20	
Arsenic	98	101	80-120	73-127	2	0-20	
Beryllium	95	97	80-120	73-127	2	0-20	
Cadmium	97	100	80-120	73-127	3	0-20	
Chromium	95	97	80-120	73-127	2	0-20	
Copper	96	98	80-120	73-127	3	0-20	
Lead	101	102	80-120	73-127	1	0-20	
Nickel	101	103	80-120	73-127	1	0-20	
Selenium	91	93	80-120	73-127	1	0-20	
Silver	106	109	80-120	73-127	2	0-20	
Thallium	101	102	80-120	73-127	2	0-20	
Zinc	98	101	80-120	73-127	3	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1611
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-878	**Solid**	**GC 47**	**10/22/09**	**10/22/09**	**091022B03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	92	101	75-123	10	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1611
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,271	**Solid**	**FLAA2**	**10/27/09**	**NONE**	**091027L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	25.1	100	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1611
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,614	**Solid**	**Mercury**	**10/22/09**	**10/23/09**	**091022L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	101	100	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1611
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-754	**Solid**	**GC 44**	**10/22/09**	**10/26/09**	**091022L17**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	89	86	50-135	36-149	4	0-25	
Gamma-BHC	89	85	50-135	36-149	4	0-25	
Beta-BHC	88	83	50-135	36-149	6	0-25	
Heptachlor	91	88	50-135	36-149	4	0-25	
Delta-BHC	94	89	50-135	36-149	5	0-25	
Aldrin	87	84	50-135	36-149	4	0-25	
Heptachlor Epoxide	87	83	50-135	36-149	4	0-25	
Endosulfan I	84	83	50-135	36-149	2	0-25	
Dieldrin	88	84	50-135	36-149	4	0-25	
4,4'-DDE	90	84	50-135	36-149	8	0-25	
Endrin	92	87	50-135	36-149	5	0-25	
Endrin Aldehyde	89	87	50-135	36-149	2	0-25	
4,4'-DDD	92	87	50-135	36-149	6	0-25	
Endosulfan II	86	83	50-135	36-149	3	0-25	
4,4'-DDT	93	89	50-135	36-149	5	0-25	
Endosulfan Sulfate	87	84	50-135	36-149	4	0-25	
Methoxychlor	93	89	50-135	36-149	4	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1611
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-801	**Solid**	**GC 31**	**10/22/09**	**10/25/09**	**091022L24**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	92	94	50-135	2	0-20	
Aroclor-1260	94	98	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1611
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-967	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09**	**091021L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	101	99	59-125	48-136	2	0-15	
2-Chlorophenol	101	100	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	101	100	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	104	102	64-136	52-148	2	0-15	
1,2,4-Trichlorobenzene	108	108	58-118	48-128	0	0-18	
Naphthalene	94	94	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	107	106	61-121	51-131	0	0-14	
Dimethyl Phthalate	98	96	0-112	0-131	2	0-20	
Acenaphthylene	96	95	33-145	14-164	1	0-20	
Acenaphthene	102	101	59-125	48-136	0	0-15	
4-Nitrophenol	102	97	38-152	19-171	5	0-31	
2,4-Dinitrotoluene	111	107	51-141	36-156	3	0-16	
Fluorene	97	97	59-121	49-131	0	0-20	
Pentachlorophenol	103	102	38-116	25-129	1	0-20	
Pyrene	106	107	51-141	36-156	1	0-14	
Butyl Benzyl Phthalate	105	104	0-152	0-177	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1611
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-11	**Solid**	**GC 35**	**10/21/09**	**10/23/09**	**091021L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	90	88	30-130	13-147	2	0-30	
Bolstar	79	79	30-130	13-147	1	0-30	
Chlorpyrifos	82	82	30-130	13-147	0	0-30	
Coumaphos	91	90	30-130	13-147	1	0-30	
Diazinon	88	86	30-130	13-147	2	0-30	
Disulfoton	101	98	30-130	13-147	3	0-30	
Ethoprop	63	86	30-130	13-147	30	0-30	
Fensulfothion	86	86	30-130	13-147	0	0-30	
Fenthion	93	92	30-130	13-147	1	0-30	
Merphos	85	85	30-130	13-147	1	0-30	
Methyl Parathion	88	87	30-130	13-147	0	0-30	
Phorate	116	109	30-130	13-147	6	0-30	
Ronnel	83	83	30-130	13-147	0	0-30	
Stirophos	63	62	30-130	13-147	1	0-30	
Tokuthion	75	75	30-130	13-147	0	0-30	
Trichloronate	94	90	30-130	13-147	4	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1611
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,397	**Solid**	**GC/MS VV**	**10/26/09**	**10/26/09**	**091026L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	97	85-115	80-120	2	0-11	
Carbon Tetrachloride	109	107	68-134	57-145	2	0-14	
Chlorobenzene	103	102	83-119	77-125	1	0-9	
1,2-Dibromoethane	103	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	96	57-135	44-148	4	0-10	
1,1-Dichloroethene	102	99	72-120	64-128	2	0-10	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	97	95	67-127	57-137	2	0-10	
Trichloroethene	99	97	88-112	84-116	2	0-9	
Vinyl Chloride	89	88	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	106	106	76-124	68-132	0	0-12	
Tert-Butyl Alcohol (TBA)	105	106	31-145	12-164	2	0-23	
Diisopropyl Ether (DIPE)	103	105	74-128	65-137	2	0-10	
Ethyl-t-Butyl Ether (ETBE)	104	106	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	108	108	81-123	74-130	0	0-10	
Ethanol	77	84	44-152	26-170	9	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1611
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,391	**Solid**	**GC/MS VV**	**10/24/09**	**10/24/09**	**091024L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	100	85-115	80-120	1	0-11	
Carbon Tetrachloride	102	102	68-134	57-145	0	0-14	
Chlorobenzene	101	102	83-119	77-125	1	0-9	
1,2-Dibromoethane	99	97	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	97	96	57-135	44-148	1	0-10	
1,1-Dichloroethene	104	104	72-120	64-128	0	0-10	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	98	97	67-127	57-137	1	0-10	
Trichloroethene	98	99	88-112	84-116	1	0-9	
Vinyl Chloride	100	101	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	106	102	76-124	68-132	4	0-12	
Tert-Butyl Alcohol (TBA)	105	110	31-145	12-164	5	0-23	
Diisopropyl Ether (DIPE)	114	110	74-128	65-137	4	0-10	
Ethyl-t-Butyl Ether (ETBE)	110	110	77-125	69-133	0	0-9	
Tert-Amyl-Methyl Ether (TAME)	109	106	81-123	74-130	3	0-10	
Ethanol	84	91	44-152	26-170	8	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1611

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name: RC000746.0002.00006

Project Location: Plate Radback, Oakley

Laboratory: Cal science

Project Manager: Kathy Brandt

Sampler(s)/Affiliation: LK-CM /ARCADIS

~~1657~~

09-10-1611

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082) SVOCs (8270)	Low Level VOCs (USEPA 8260B (8015))	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/1614)	PP Metals (USEPA 6010B/7470/7471)	Dioxins and Furans (USEPA 8290)	Remarks	Total
SB-39 @ 1ft *	S	10/20/09 1023	1	X		X	X	X	X	X	MS/MSD	18
SB-40 @ 8inches*	S	10/20/09 1039	2	X		X	X	X	X	X		6
SB-41 @ 5inches	S	10/20/09 1049	3	X		X	X	X	X	X		6
~~SB-41 @ 1ft~~	~~S~~	~~10/20/09 1118~~	~~LK 10/20/09~~									
SB-41 @ 5ft *	S	10/20/09 1104	4	X		X	X	X	X	X		6
SB-42 @ 1ft *	S	10/20/09 1118	5	X		X	X	X	X	X		6
SB-43 @ 1ft***	S	10/20/09 1409	6	X	X	X	X	X	X	X		6
SB-13 @ 1ft **	S	10/20/09 1425	7	X	X	X	X	X	X	X		6
											* TEL analysis ON THESE (DHS LUFT)	
											~~** LK 10/20/09~~ * SVOCs analysis (USEPA 8270C)	
											Total No. of Bottles/ Containers	54

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: [signature]	Organization: ARCADIS	Date 10/20/2009	Time 1730	Seal Intact? Yes No N/A
Received by: [signature] CEL	Organization: CAL Science	Date 10/20/2009	Time 1730	
Relinquished by: [signature] TO GSD	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/21/09	Time 1000	

Special Instructions/Remarks:

512564033

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10- 1 6 1 1

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/21/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® ☑ 60 mL PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** YC

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** PS

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 05, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1611**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/21/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

October 30, 2009

FAL Project ID: 5793

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5793**. This corresponds to your project number **09-10-1611**. The seven soil samples received on 10/21/2009 were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. Per your request, a matrix spike and matrix spike duplicate (MS/MSD) were performed on sample 5793-001-SA (Calscience ID: SB-39 @ 1ft). The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's (WHO) toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5793**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5793**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5793**

Received on: **10/21/2009** Project Due: **11/12/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5793-001-SA	0	09-10-1611	SB-39 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	10:23 am	11/19/2009
5793-001-MSD	0	09-10-1611	SB-39 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	10:23 am	11/19/2009
5793-001-MS	0	09-10-1611	SB-39 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	10:23 am	11/19/2009
5793-002-SA	0	09-10-1611	SB-40 @ 8 inches	EPA 8290 D/F	Soil	10/20/2009	10:39 am	11/19/2009
5793-003-SA	0	09-10-1611	SB-41 @ 5 inches	EPA 8290 D/F	Soil	10/20/2009	10:49 am	11/19/2009
5793-004-SA	0	09-10-1611	SB-41 @ 5 ft	EPA 8290 D/F	Soil	10/20/2009	11:04 am	11/19/2009
5793-005-SA	0	09-10-1611	SB-42 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	11:18 am	11/19/2009
5793-006-SA	0	09-10-1611	SB-43 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	02:09 pm	11/19/2009
5793-007-SA	0	09-10-1611	SB-13 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	02:25 pm	11/19/2009

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0587		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.125		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0976		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.137		-	0.0680	Total TCDD	ND	0.0587	
1,2,3,7,8,9-HxCDD	ND	0.128		-	0.0666	Total PeCDD	ND	0.125	
1,2,3,4,6,7,8-HpCDD	ND	0.328		-	0.0927	Total HxCDD	ND	0.137	
OCDD	ND	0.983		-	0.272	Total HpCDD	ND	0.328	
2,3,7,8-TCDF	ND	0.0339		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0573		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0709		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0744		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0805		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0725		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.110		-	0.0493	Total TCDF	ND	0.0339	
1,2,3,4,6,7,8-HpCDF	ND	0.136		-	0.0404	Total PeCDF	ND	0.0709	
1,2,3,4,7,8,9-HpCDF	ND	0.156		-	0.0469	Total HxCDF	ND	0.110	
OCDF	ND	0.331		-	0.177	Total HpCDF	ND	0.156	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	90.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	70.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	66.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	65.0	40.0 - 135	
13C-OCDD	53.1	40.0 - 135	
13C-2,3,7,8-TCDF	92.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	82.4	40.0 - 135	
13C-2,3,4,7,8-PeCDF	82.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	70.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	67.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	66.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	74.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	72.4	40.0 - 135	
13C-OCDF	58.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	126	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 10-29-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	8.45	7.00 - 13.0	
1,2,3,7,8-PeCDD	46.1	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	45.0	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	44.1	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	44.2	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	42.8	35.0 - 65.0	
OCDD	80.8	70.0 - 130	
2,3,7,8-TCDF	8.20	7.00 - 13.0	
1,2,3,7,8-PeCDF	44.0	35.0 - 65.0	
2,3,4,7,8-PeCDF	43.4	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	43.2	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	42.2	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	43.0	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	42.2	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	41.9	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	42.9	35.0 - 65.0	
OCDF	81.9	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	85.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	70.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	66.0	40.0 - 135	
13C-OCDD	58.9	40.0 - 135	
13C-2,3,7,8-TCDF	91.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	79.7	40.0 - 135	
13C-2,3,4,7,8-PeCDF	78.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	73.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	73.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	62.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	75.1	40.0 - 135	
13C-OCDF	65.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	124	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-001-SA
Client ID: SB-39 @ 1 ft
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 4.60 g
% Solids: 86.85

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 1.01

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0543		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.250		-	0.0457				
1,2,3,4,7,8-HxCDD	0.210	-	J	0.0210	0.0496				
1,2,3,6,7,8-HxCDD	0.832	-	J	0.0832	0.0680	Total TCDD	0.305	-	J
1,2,3,7,8,9-HxCDD	0.571	-	J	0.0571	0.0666	Total PeCDD	ND	0.250	
1,2,3,4,6,7,8-HpCDD	10.8	-		0.108	0.0927	Total HxCDD	4.20	-	J
OCDD	74.0	-		0.0222	0.272	Total HpCDD	19.4	-	
2,3,7,8-TCDF	0.468	-	J	0.0468	0.0252				
1,2,3,7,8-PeCDF	1.09	-	J	0.0327	0.0365				
2,3,4,7,8-PeCDF	0.639	-	J	0.192	0.0486				
1,2,3,4,7,8-HxCDF	1.74	-	J	0.174	0.0267				
1,2,3,6,7,8-HxCDF	1.21	-	J	0.121	0.0289				
2,3,4,6,7,8-HxCDF	0.672	-	J	0.0672	0.0298				
1,2,3,7,8,9-HxCDF	0.378	-	J	0.0378	0.0493	Total TCDF	4.64	-	
1,2,3,4,6,7,8-HpCDF	3.55	-	J	0.0355	0.0404	Total PeCDF	9.60	-	
1,2,3,4,7,8,9-HpCDF	0.690	-	J	0.00690	0.0469	Total HxCDF	13.7	-	
OCDF	5.71	-	J	0.00171	0.177	Total HpCDF	7.36	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	90.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	69.9	40.0 - 135	
13C-OCDD	63.0	40.0 - 135	
13C-2,3,7,8-TCDF	94.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	83.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	81.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	73.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	71.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	76.9	40.0 - 135	
13C-OCDF	67.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	124	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-001-MS/MSD
Client ID: SB-39 @ 1 ft
Matrix: Soil

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Sample Amount: 4.60 g
MS Amount: 4.58 g
MSD Amount: 4.65 g

ICal: PCDDFAL3-8-13-09
Batch No: X1865
Units: pg/g

MS Acquired: 2009-10-30
MSD Acquired: 2009-10-30
GC Column: DB5

Compound	Amount Spiked (pg)	Sample Amount	MS Amount	MSD Amount	% RSD	Qual
2,3,7,8-TCDD	200	-	38.3	36.8	2.31	
1,2,3,7,8-PeCDD	1000	-	208	202	1.48	
1,2,3,4,7,8-HxCDD	1000	0.210	203	201	0.537	
1,2,3,6,7,8-HxCDD	1000	0.832	200	195	0.992	
1,2,3,7,8,9-HxCDD	1000	0.571	201	199	0.435	
1,2,3,4,6,7,8-HpCDD	1000	10.8	205	198	2.04	
OCDD	2000	74.0	458	462	2.80	
2,3,7,8-TCDF	200	0.468	35.3	34.4	1.26	
1,2,3,7,8-PeCDF	1000	1.09	200	196	0.550	
2,3,4,7,8-PeCDF	1000	0.639	198	190	2.58	
1,2,3,4,7,8-HxCDF	1000	1.74	197	197	1.55	
1,2,3,6,7,8-HxCDF	1000	1.21	192	191	1.03	
2,3,4,6,7,8-HxCDF	1000	0.672	193	190	0.00	
1,2,3,7,8,9-HxCDF	1000	0.378	193	187	1.60	
1,2,3,4,6,7,8-HpCDF	1000	3.55	197	196	1.01	
1,2,3,4,7,8,9-HpCDF	1000	0.690	197	193	0.558	
OCDF	2000	5.71	379	379	1.16	

Internal Standards		% Rec	% Rec	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	2000	93.7	96.3	94.4	40.0 - 135	
13C-1,2,3,7,8-PeCDD	2000	90.4	104	108	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	2000	72.9	73.9	70.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	2000	71.4	71.5	68.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	2000	69.9	71.3	70.3	40.0 - 135	
13C-OCDD	4000	63.0	61.4	64.1	40.0 - 135	
13C-2,3,7,8-TCDF	2000	94.7	102	92.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	2000	83.2	93.5	90.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	2000	81.8	99.3	97.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	2000	73.2	68.7	64.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	2000	71.3	67.8	63.8	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	2000	70.9	67.5	65.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	2000	77.5	76.3	75.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	2000	64.9	61.9	63.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	2000	76.9	78.9	76.1	40.0 - 135	
13C-OCDF	4000	67.9	68.2	69.3	40.0 - 135	
Cleanup Surrogate						
37Cl-2,3,7,8-TCDD	800	124	131	125	50.0 - 150	

Analyst: [illegible]
Date: 10/30/09

Reviewed By: [illegible]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-002-SA
Client ID: SB-40 @ 8 inches
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 3.94 g
% Solids: 75.30

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 59.3

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.160		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.201		-	0.0457				
1,2,3,4,7,8-HxCDD	0.570	-	J	0.0570	0.0496				
1,2,3,6,7,8-HxCDD	1.05	-	J	0.105	0.0680	Total TCDD	ND	0.160	
1,2,3,7,8,9-HxCDD	0.802	-	J	0.0802	0.0666	Total PeCDD	0.746	-	J,M
1,2,3,4,6,7,8-HpCDD	18.2	-		0.182	0.0927	Total HxCDD	8.20	-	M
OCDD	113	-		0.0339	0.272	Total HpCDD	31.8	-	
2,3,7,8-TCDF	36.2	-	F	3.62	0.0252				
1,2,3,7,8-PeCDF	116	-		3.48	0.0365				
2,3,4,7,8-PeCDF	30.8	-		9.24	0.0486				
1,2,3,4,7,8-HxCDF	185	-		18.5	0.0267				
1,2,3,6,7,8-HxCDF	129	-		12.9	0.0289				
2,3,4,6,7,8-HxCDF	53.1	-		5.31	0.0298				
1,2,3,7,8,9-HxCDF	23.3	-		2.33	0.0493	Total TCDF	198	-	
1,2,3,4,6,7,8-HpCDF	276	-		2.76	0.0404	Total PeCDF	778	-	
1,2,3,4,7,8,9-HpCDF	65.7	-		0.657	0.0469	Total HxCDF	1350	-	
OCDF	314	-		0.0942	0.177	Total HpCDF	447	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	95.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	64.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	62.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	61.4	40.0 - 135	
13C-OCDD	54.1	40.0 - 135	
13C-2,3,7,8-TCDF	86.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	79.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	93.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	65.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	62.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	61.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	67.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	56.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	67.4	40.0 - 135	
13C-OCDF	57.3	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	114	50.0 - 150

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-003-SA
Client ID: SB-41 @ 5 inches
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 4.95 g
% Solids: 89.45

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 2.33

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.103		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.111		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.152		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.299		-	0.0680	Total TCDD	ND	0.103	
1,2,3,7,8,9-HxCDD	ND	0.198		-	0.0666	Total PeCDD	ND	0.111	
1,2,3,4,6,7,8-HpCDD	4.06	-	J	0.0406	0.0927	Total HxCDD	0.720	-	J
OCDD	26.3	-		0.00789	0.272	Total HpCDD	7.29	-	
2,3,7,8-TCDF	1.37	-		0.137	0.0252				
1,2,3,7,8-PeCDF	4.41	-	J	0.132	0.0365				
2,3,4,7,8-PeCDF	1.29	-	J	0.387	0.0486				
1,2,3,4,7,8-HxCDF	7.32	-		0.732	0.0267				
1,2,3,6,7,8-HxCDF	4.68	-	J	0.468	0.0289				
2,3,4,6,7,8-HxCDF	2.10	-	J	0.210	0.0298				
1,2,3,7,8,9-HxCDF	1.02	-	J	0.102	0.0493	Total TCDF	5.74	-	
1,2,3,4,6,7,8-HpCDF	8.60	-		0.0860	0.0404	Total PeCDF	24.1	-	
1,2,3,4,7,8,9-HpCDF	1.93	-	J	0.0193	0.0469	Total HxCDF	43.9	-	
OCDF	10.9	-		0.00327	0.177	Total HpCDF	14.7	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	72.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	78.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	54.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	52.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	52.5	40.0 - 135	
13C-OCDD	44.9	40.0 - 135	
13C-2,3,7,8-TCDF	71.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	65.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	72.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	54.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	53.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	53.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	57.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	48.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	57.8	40.0 - 135	
13C-OCDF	49.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-004-SA
Client ID: SB-41 @ 5 ft
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 4.31 g
% Solids: 80.15

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0739		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.131		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.220		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.299		-	0.0680	Total TCDD	ND	0.0739	
1,2,3,7,8,9-HxCDD	ND	0.284		-	0.0666	Total PeCDD	ND	0.131	
1,2,3,4,6,7,8-HpCDD	ND	0.509		-	0.0927	Total HxCDD	ND	0.299	
OCDD	ND	1.62		-	0.272	Total HpCDD	ND	0.509	
2,3,7,8-TCDF	ND	0.0518		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0754		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0932		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0669		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0726		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0657		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0994		-	0.0493	Total TCDF	ND	0.0518	
1,2,3,4,6,7,8-HpCDF	ND	0.127		-	0.0404	Total PeCDF	ND	0.0932	
1,2,3,4,7,8,9-HpCDF	ND	0.136		-	0.0469	Total HxCDF	ND	0.0994	
OCDF	ND	0.350		-	0.177	Total HpCDF	ND	0.136	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	97.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	70.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.9	40.0 - 135	
13C-OCDD	57.3	40.0 - 135	
13C-2,3,7,8-TCDF	91.4	40.0 - 135	
13C-1,2,3,7,8-PeCDF	83.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	69.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	67.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	75.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	74.5	40.0 - 135	
13C-OCDF	62.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	118	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-005-SA
Client ID: SB-42 @ 1 ft
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 4.85 g
% Solids: 91.39

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.00498

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0995		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.110		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.225		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.293		-	0.0680	Total TCDD	ND	0.0995	
1,2,3,7,8,9-HxCDD	ND	0.284		-	0.0666	Total PeCDD	ND	0.110	
1,2,3,4,6,7,8-HpCDD	0.439	-	J	0.00439	0.0927	Total HxCDD	ND	0.293	
OCDD	1.95	-	J	0.000585	0.272	Total HpCDD	1.01	-	J
2,3,7,8-TCDF	ND	0.0654		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0602		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0756		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.107		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.114		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0992		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.156		-	0.0493	Total TCDF	0.176	-	J
1,2,3,4,6,7,8-HpCDF	ND	0.102		-	0.0404	Total PeCDF	ND	0.0756	
1,2,3,4,7,8,9-HpCDF	ND	0.112		-	0.0469	Total HxCDF	ND	0.156	
OCDF	ND	0.316		-	0.177	Total HpCDF	ND	0.112	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	79.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	79.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	58.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	56.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	60.2	40.0 - 135	
13C-OCDD	48.7	40.0 - 135	
13C-2,3,7,8-TCDF	80.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	72.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	73.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	56.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	56.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	57.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	64.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	52.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	63.1	40.0 - 135	
13C-OCDF	53.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	110	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-006-SA
Client ID: SB-43 @ 1 ft
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 5.02 g
% Solids: 94.32

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-30-2009
2005 WHO TEQ: 0.318

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.101		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.143		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.118		-	0.0496				
1,2,3,6,7,8-HxCDD	0.628	-	J	0.0628	0.0680	Total TCDD	ND	0.101	
1,2,3,7,8,9-HxCDD	0.336	-	J	0.0336	0.0666	Total PeCDD	ND	0.143	
1,2,3,4,6,7,8-HpCDD	10.7	-		0.107	0.0927	Total HxCDD	2.77	-	J
OCDD	100	-		0.0300	0.272	Total HpCDD	19.4	-	
2,3,7,8-TCDF	ND	0.131		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.119		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.141		-	0.0486				
1,2,3,4,7,8-HxCDF	0.192	-	J	0.0192	0.0267				
1,2,3,6,7,8-HxCDF	0.163	-	J	0.0163	0.0289				
2,3,4,6,7,8-HxCDF	0.205	-	J	0.0205	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0874		-	0.0493	Total TCDF	ND	0.131	
1,2,3,4,6,7,8-HpCDF	2.65	-	J	0.0265	0.0404	Total PeCDF	1.75	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.127		-	0.0469	Total HxCDF	3.56	-	J
OCDF	7.35	-	J	0.00220	0.177	Total HpCDF	7.34	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	105	40.0 - 135	
13C-1,2,3,7,8-PeCDD	111	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	78.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.0	40.0 - 135	
13C-OCDD	62.9	40.0 - 135	
13C-2,3,7,8-TCDF	103	40.0 - 135	
13C-1,2,3,7,8-PeCDF	94.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	103	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	76.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	76.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	74.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	81.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	68.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.3	40.0 - 135	
13C-OCDF	69.3	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	132	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5793-007-SA
Client ID: SB-13 @ 1 ft
Matrix: Soil
Batch No: X1865

Date Extracted: 10-28-2009
Date Received: 10-21-2009
Amount: 4.84 g
% Solids: 91.65

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-30-2009
2005 WHO TEQ: 0.0367

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0941		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.116		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.222		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.292		-	0.0680	Total TCDD	ND	0.0941	
1,2,3,7,8,9-HxCDD	ND	0.282		-	0.0666	Total PeCDD	ND	0.116	
1,2,3,4,6,7,8-HpCDD	2.69	-	J	0.0269	0.0927	Total HxCDD	ND	0.292	
OCDD	16.6	-		0.00498	0.272	Total HpCDD	4.97	-	J
2,3,7,8-TCDF	ND	0.0723		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.111		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.133		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0623		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0648		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0591		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0890		-	0.0493	Total TCDF	ND	0.0723	
1,2,3,4,6,7,8-HpCDF	0.453	-	J	0.00453	0.0404	Total PeCDF	ND	0.133	
1,2,3,4,7,8,9-HpCDF	ND	0.0663		-	0.0469	Total HxCDF	0.517	-	J
OCDF	0.970	-	J	0.000291	0.177	Total HpCDF	1.07	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	99.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	68.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	67.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	68.1	40.0 - 135	
13C-OCDD	57.2	40.0 - 135	
13C-2,3,7,8-TCDF	91.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	82.4	40.0 - 135	
13C-2,3,4,7,8-PeCDF	89.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	66.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	65.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	64.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	72.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	74.2	40.0 - 135	
13C-OCDF	63.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	123	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/30/09

Reviewed By: [signature]
Date: 10/30/09

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5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5793
Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1611
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS
USE SB-39 @ 1 ft FOR MS/MSD

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-39 @ 1 ft	10-20-09	1023	S	3x		X									D/F
2	-40 8 inches		1039		1											
3	-41 5 1		1049													
4	1 5 ft		1104													
5	-42 1		1118													
6	-43 1		1409													
7	-13 1		1425													
8																
9																
10																
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
- ALAN B. KEMP TO GSO	10-20-09	1730	Gabby Navarro	10/21/09	1055

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5793**

Client:	Calscience
Client Project ID:	09-10-1611
Date Received:	10/21/2009
Time Received:	10:55 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	7
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	512864185
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/19/2009
Adequate Sample Volume	Yes

Anomalies or additional comments:

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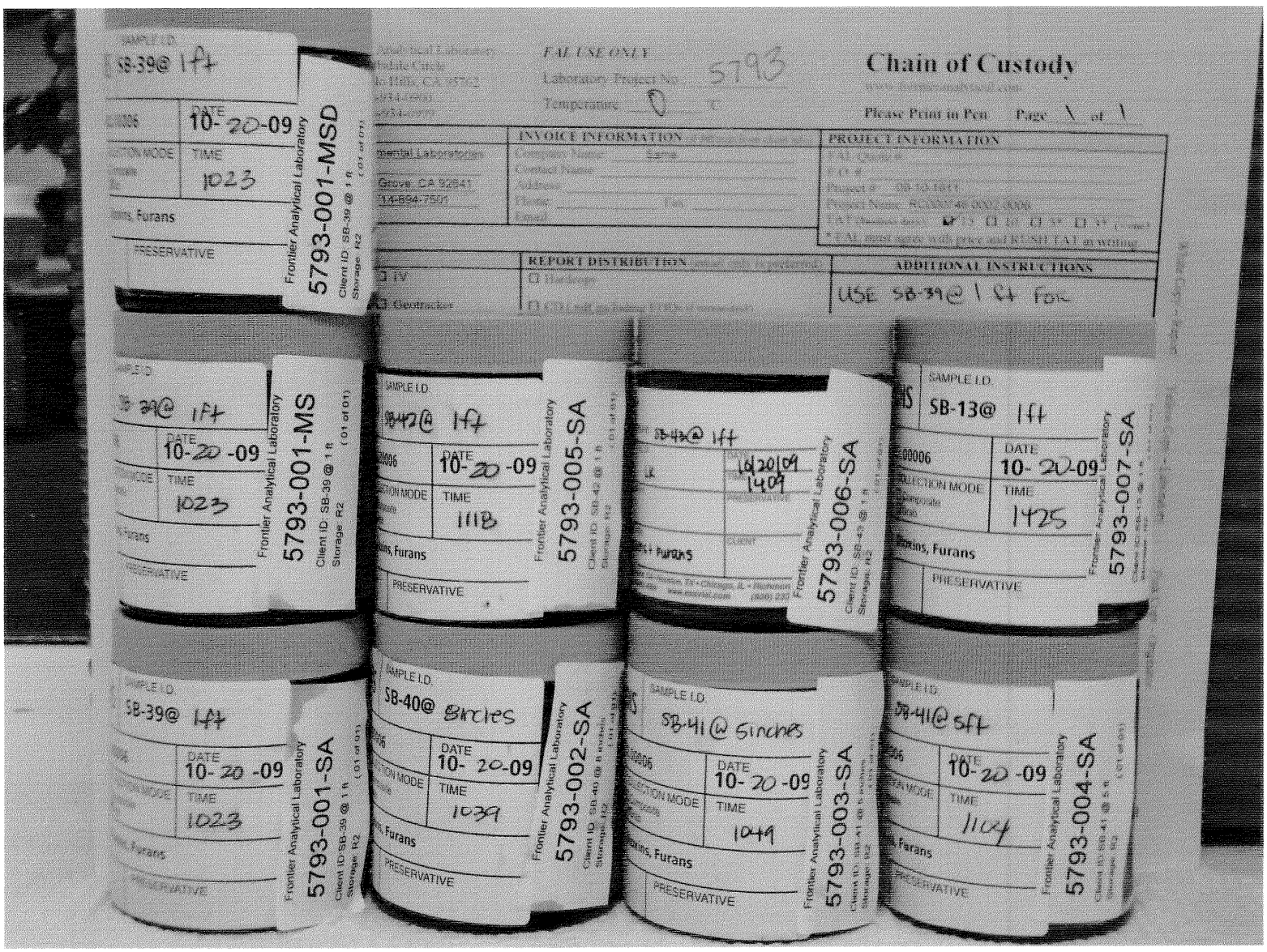
FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: RC000746.0002.00006

Project Location: PG&E Radback, Oakley

Laboratory: Cal Science

Project Manager: Kathy Brandt

Sampler(s)/Affiliation: LK-CM/ARCADIS

~~1657~~

09-10-1611

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	SVOCs (8270) Low Level VOCs (USEPA 8260B)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/1614)	PP Metals (USEPA 6010B/7470/7471)	Dioxins and Furans (USEPA 8290)	Remarks	Total
SB-39 @ 1ft *	S	10/20/09 1023	1	X		X	X	X	X	X	MS/MSD	18
SB-40 @ 8inches*	S	10/20/09 1039	2	X		X	X	X	X	X		6
SB-41 @ 5inches	S	10/20/09 1049	3	X		X	X	X	X	X		6
~~SB-41 @ 1ft~~	~~S~~	~~10/20/09 1118~~	~~LK 10/20/09~~									
SB-41 @ 5ft *	S	10/20/09 1104	4	X		X	X	X	X	X		6
SB-42 @ 1ft *	S	10/20/09 1118	5	X		X	X	X	X	X		6
SB-43 @ 1ft***	S	10/20/09 1409	6	X	X	X	X	X	X	X		6
SB-13 @ 1ft **	S	10/20/09 1425	7	X	X	X	X	X	X	X		6
											* TEL analysis ON THESE (DHS LUFT)	
											~~**~~ LK 10/20/09 ** SVOCs analysis (USEPA 8270C)	
											Total No. of Bottles/ Containers	54

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: [signature]	Organization: ARCADIS	Date 10/20/2009	Time 1430	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CAL Science	Date 10/20/2009	Time 1430	
Relinquished by: [signature] TO GSD	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/21/09	Time 1000	

Special Instructions/Remarks:

512564033

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10- 1 6 1 1

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/21/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® ☑ 60 mL PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** YC

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** PS

Calscience Environmental Laboratories, Inc.

November 03, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1612**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/21/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@5ft	**09-10-1612-1-A**	**10/19/09 15:10**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:52**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:55:08 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.97	0.750	1		Nickel	19.1	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	15.3	0.250	1		Thallium	ND	0.750	1	
Copper	7.29	0.500	1		Zinc	21.5	1.00	1	
Lead	2.91	0.500	1						

SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:53**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:57:21 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.71	0.750	1		Nickel	14.5	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	30.2	0.250	1		Thallium	ND	0.750	1	
Copper	5.17	0.500	1		Zinc	16.9	1.00	1	
Lead	3.61	0.500	1						

SB-34@1ft	**09-10-1612-3-A**	**10/19/09 16:10**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:54**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 12:59:35 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.94	0.750	1		Nickel	24.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.3	0.250	1		Thallium	ND	0.750	1	
Copper	8.61	0.500	1		Zinc	28.8	1.00	1	
Lead	6.00	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-35@1ft	**09-10-1612-4-A**	**10/19/09 16:18**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:55**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:01:50 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.49	0.750	1		Nickel	17.7	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.5	0.250	1		Thallium	ND	0.750	1	
Copper	7.36	0.500	1		Zinc	28.4	1.00	1	
Lead	6.18	0.500	1						

SB-35@5ft	**09-10-1612-5-A**	**10/19/09 16:25**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 22:00**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:04:04 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	4.04	0.750	1		Nickel	21.4	0.250	1	
Beryllium	0.271	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	17.9	0.250	1		Thallium	ND	0.750	1	
Copper	9.88	0.500	1		Zinc	27.9	1.00	1	
Lead	3.85	0.500	1						

SB-36@1ft	**09-10-1612-6-A**	**10/20/09 08:59**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 22:01**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:06:20 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.86	0.750	1		Nickel	21.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.8	0.250	1		Thallium	ND	0.750	1	
Copper	8.57	0.500	1		Zinc	31.5	1.00	1	
Lead	7.09	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-37@1ft	**09-10-1612-7-A**	**10/20/09 09:10**	**Solid**	**ICP 5300**	**10/22/09**	**10/27/09 13:21**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:08:35 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.40	0.750	1		Nickel	13.0	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.75	0.250	1		Thallium	ND	0.750	1	
Copper	4.25	0.500	1		Zinc	12.6	1.00	1	
Lead	1.75	0.500	1						

SB-38@1ft	**09-10-1612-8-A**	**10/20/09 09:25**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 22:04**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:15:23 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.47	0.750	1		Nickel	13.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	10.2	0.250	1		Thallium	ND	0.750	1	
Copper	4.91	0.500	1		Zinc	15.0	1.00	1	
Lead	3.87	0.500	1						

SB-38@5ft	**09-10-1612-9-A**	**10/20/09 09:40**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 22:05**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:17:40 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	3.13	0.750	1		Nickel	18.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	18.1	0.250	1		Thallium	ND	0.750	1	
Copper	8.98	0.500	1		Zinc	26.3	1.00	1	
Lead	3.42	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18@1ft	**09-10-1612-10-A**	**10/20/09 09:53**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 22:06**	**091022L02**

Comment(s): -Mercury was analyzed on 10/23/2009 1:19:57 PM with batch 091022L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.40	0.750	1		Nickel	12.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	10.1	0.250	1		Thallium	ND	0.750	1	
Copper	4.39	0.500	1		Zinc	13.5	1.00	1	
Lead	1.71	0.500	1						

Method Blank	**099-04-007-6,614**	**N/A**	**Solid**	**Mercury**	**10/22/09**	**10/23/09 12:23**	**091022L08**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,859**	**N/A**	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09 21:29**	**091022L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@5ft	**09-10-1612-1-A**	**10/19/09 15:10**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 20:00**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 20:16**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	61-145	

SB-34@1ft	**09-10-1612-3-A**	**10/19/09 16:10**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 20:32**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

SB-35@1ft	**09-10-1612-4-A**	**10/19/09 16:18**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 20:48**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-35@5ft	**09-10-1612-5-A**	**10/19/09 16:25**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 21:05**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-36@1ft	**09-10-1612-6-A**	**10/20/09 08:59**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 21:21**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-37@1ft	**09-10-1612-7-A**	**10/20/09 09:10**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 21:37**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38@1ft	**09-10-1612-8-A**	**10/20/09 09:25**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 21:53**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38@5ft	**09-10-1612-9-A**	**10/20/09 09:40**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 22:10**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

SB-18@1ft	**09-10-1612-10-A**	**10/20/09 09:53**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 22:26**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

Method Blank	**099-12-025-878**	**N/A**	**Solid**	**GC 47**	**10/22/09**	**10/22/09 16:24**	**091022B03**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	76	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34@1ft	**09-10-1612-3-A**	**10/19/09 16:10**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-35@5ft	**09-10-1612-5-A**	**10/19/09 16:25**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-37@1ft	**09-10-1612-7-A**	**10/20/09 09:10**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-38@1ft	**09-10-1612-8-A**	**10/20/09 09:25**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,271**	**N/A**	**Solid**	**FLAA2**	**10/27/09**	**10/27/09 15:38**	**091027L03**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@5ft	**09-10-1612-1-A**	**10/19/09 15:10**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 12:54**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	50-135		2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 13:21**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	1.9	5.0	1.6	1	J
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	0.88	5.0	0.84	1	J
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.1	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-135		2,4,5,6-Tetrachloro-m-Xylene	93	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34@1ft	**09-10-1612-3-A**	**10/19/09 16:10**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 15:10**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.9	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

SB-35@1ft	**09-10-1612-4-A**	**10/19/09 16:18**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 15:38**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.7	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	50-135		2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-35@5ft	**09-10-1612-5-A**	**10/19/09 16:25**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 16:05**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	74	50-135		2,4,5,6-Tetrachloro-m-Xylene	78	50-135	

SB-36@1ft	**09-10-1612-6-A**	**10/20/09 08:59**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 16:32**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	6.1	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	13	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	50-135		2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-37@1ft	**09-10-1612-7-A**	**10/20/09 09:10**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 17:26**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

SB-38@1ft	**09-10-1612-8-A**	**10/20/09 09:25**	**Solid**	**GC 44**	**10/22/09**	**10/26/09 17:54**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.2	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	50-135		2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38@5ft	**09-10-1612-9-A**	**10/20/09 09:40**	**Solid**	**GC 44**	**10/22/09**	**10/27/09 00:42**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	50-135		2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

SB-18@1ft	**09-10-1612-10-A**	**10/20/09 09:53**	**Solid**	**GC 44**	**10/22/09**	**10/27/09 01:09**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	59	50-135		2,4,5,6-Tetrachloro-m-Xylene	57	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-754**	**N/A**	**Solid**	**GC 44**	**10/22/09**	**10/23/09 20:17**	**091022L17**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-135		2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**GC 31**	**10/22/09**	**10/26/09 01:52**	**091022L24**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	50-130		2,4,5,6-Tetrachloro-m-Xylene	105	50-130	

Method Blank	**099-12-535-801**	**N/A**	**Solid**	**GC 31**	**10/22/09**	**10/25/09 14:45**	**091022L24**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	50-130		2,4,5,6-Tetrachloro-m-Xylene	106	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**GC/MS AAA**	**10/22/09**	**10/23/09 19:59**	**091022L19**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	
Anthracene	ND	0.020	0.0062	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Fluoranthene	ND	0.020	0.0019	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Pyrene	ND	0.020	0.0033	1		1-Methylnaphthalene	ND	0.020	0.0043	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	61	18-162		2-Fluorobiphenyl	88	14-146	
p-Terphenyl-d14	88	34-148					

Method Blank	**099-06-010-385**	**N/A**	**Solid**	**GC/MS AAA**	**10/22/09**	**10/23/09 12:12**	**091022L19**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	
Anthracene	ND	0.020	0.0062	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Fluoranthene	ND	0.020	0.0019	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Pyrene	ND	0.020	0.0033	1		1-Methylnaphthalene	ND	0.020	0.0043	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	92	18-162		2-Fluorobiphenyl	70	14-146	
p-Terphenyl-d14	66	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09 20:30**	**091021L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	92	42-120		Phenol-d6	93	46-118	
Nitrobenzene-d5	91	42-150		2-Fluorobiphenyl	93	38-134	
2,4,6-Tribromophenol	115	36-132		p-Terphenyl-d14	97	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-967**	**N/A**	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09 18:57**	**091021L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	89	38-134	
2,4,6-Tribromophenol	107	36-132		p-Terphenyl-d14	94	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@5ft	**09-10-1612-1-A**	**10/19/09 15:10**	**Solid**	**GC 35**	**10/21/09**	**10/27/09 02:18**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	116	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4@8inches	**09-10-1612-2-A**	**10/19/09 15:40**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 18:41**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	113	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34@1ft	**09-10-1612-3-A**	**10/19/09 16:10**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 19:26**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	110	30-130	

SB-35@1ft	**09-10-1612-4-A**	**10/19/09 16:18**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 20:12**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	108	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-35@5ft	**09-10-1612-5-A**	**10/19/09 16:25**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 20:58**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	137	30-130	2

SB-36@1ft	**09-10-1612-6-A**	**10/20/09 08:59**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 21:43**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	114	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-37@1ft	**09-10-1612-7-A**	**10/20/09 09:10**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 22:29**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	114	30-130	

SB-38@1ft	**09-10-1612-8-A**	**10/20/09 09:25**	**Solid**	**GC 35**	**10/21/09**	**10/26/09 23:15**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	117	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38@5ft	**09-10-1612-9-A**	**10/20/09 09:40**	**Solid**	**GC 35**	**10/21/09**	**10/27/09 00:01**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	99	30-130	

SB-18@1ft	**09-10-1612-10-A**	**10/20/09 09:53**	**Solid**	**GC 35**	**10/21/09**	**10/27/09 01:32**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	99	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-465-11**	**N/A**	**Solid**	**GC 35**	**10/21/09**	**10/23/09 19:37**	**091021L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	57	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28@5ft	**09-10-1612-1-D**	**10/19/09 15:10**	**Solid**	**GC/MS VV**	**10/19/09**	**10/24/09 18:02**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	100	50	1.01		c-1,3-Dichloropropene	ND	1.0	1.01	
Benzene	ND	1.0	1.01		t-1,3-Dichloropropene	ND	2.0	1.01	
Bromobenzene	ND	1.0	1.01		Ethylbenzene	ND	1.0	1.01	
Bromochloromethane	ND	2.0	1.01		2-Hexanone	ND	20	1.01	
Bromodichloromethane	ND	1.0	1.01		Isopropylbenzene	ND	1.0	1.01	
Bromoform	ND	5.0	1.01		p-Isopropyltoluene	ND	1.0	1.01	
Bromomethane	ND	20	1.01		Methylene Chloride	ND	10	1.01	
2-Butanone	ND	20	1.01		4-Methyl-2-Pentanone	ND	20	1.01	
n-Butylbenzene	ND	1.0	1.01		Naphthalene	ND	10	1.01	
sec-Butylbenzene	ND	1.0	1.01		n-Propylbenzene	ND	2.0	1.01	
tert-Butylbenzene	ND	1.0	1.01		Styrene	ND	1.0	1.01	
Carbon Disulfide	ND	10	1.01		1,1,1,2-Tetrachloroethane	ND	1.0	1.01	
Carbon Tetrachloride	ND	1.0	1.01		1,1,2,2-Tetrachloroethane	ND	2.0	1.01	
Chlorobenzene	ND	1.0	1.01		Tetrachloroethene	ND	1.0	1.01	
Chloroethane	ND	2.0	1.01		Toluene	ND	1.0	1.01	
Chloroform	ND	1.0	1.01		1,2,3-Trichlorobenzene	ND	2.0	1.01	
Chloromethane	ND	20	1.01		1,2,4-Trichlorobenzene	ND	2.0	1.01	
2-Chlorotoluene	ND	1.0	1.01		1,1,1-Trichloroethane	ND	1.0	1.01	
4-Chlorotoluene	ND	1.0	1.01		1,1,2-Trichloroethane	ND	1.0	1.01	
Dibromochloromethane	ND	2.0	1.01		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.01	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.01		Trichloroethene	ND	2.0	1.01	
1,2-Dibromoethane	ND	1.0	1.01		Trichlorofluoromethane	ND	10	1.01	
Dibromomethane	ND	1.0	1.01		1,2,3-Trichloropropane	ND	2.0	1.01	
1,2-Dichlorobenzene	ND	1.0	1.01		1,2,4-Trimethylbenzene	ND	2.0	1.01	
1,3-Dichlorobenzene	ND	1.0	1.01		1,3,5-Trimethylbenzene	ND	2.0	1.01	
1,4-Dichlorobenzene	ND	1.0	1.01		Vinyl Acetate	ND	10	1.01	
Dichlorodifluoromethane	ND	2.0	1.01		Vinyl Chloride	ND	1.0	1.01	
1,1-Dichloroethane	ND	1.0	1.01		p/m-Xylene	ND	2.0	1.01	
1,2-Dichloroethane	ND	1.0	1.01		o-Xylene	ND	1.0	1.01	
1,1-Dichloroethene	ND	1.0	1.01		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.01	
c-1,2-Dichloroethene	ND	1.0	1.01		Tert-Butyl Alcohol (TBA)	ND	20	1.01	
t-1,2-Dichloroethene	ND	1.0	1.01		Diisopropyl Ether (DIPE)	ND	1.0	1.01	
1,2-Dichloropropane	ND	1.0	1.01		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.01	
1,3-Dichloropropane	ND	1.0	1.01		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.01	
2,2-Dichloropropane	ND	5.0	1.01		Ethanol	ND	500	1.01	
1,1-Dichloropropene	ND	2.0	1.01						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4@8inches	**09-10-1612-2-D**	**10/19/09 15:40**	**Solid**	**GC/MS VV**	**10/19/09**	**10/24/09 18:28**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	200	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	71-137		1,2-Dichloroethane-d4	119	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34@1ft	**09-10-1612-3-D**	**10/19/09 16:10**	**Solid**	**GC/MS VV**	**10/19/09**	**10/24/09 18:54**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	200	45	0.893	E	c-1,3-Dichloropropene	ND	0.89	0.893	
Benzene	ND	0.89	0.893		t-1,3-Dichloropropene	ND	1.8	0.893	
Bromobenzene	ND	0.89	0.893		Ethylbenzene	ND	0.89	0.893	
Bromochloromethane	ND	1.8	0.893		2-Hexanone	ND	18	0.893	
Bromodichloromethane	ND	0.89	0.893		Isopropylbenzene	ND	0.89	0.893	
Bromoform	ND	4.5	0.893		p-Isopropyltoluene	ND	0.89	0.893	
Bromomethane	ND	18	0.893		Methylene Chloride	ND	8.9	0.893	
2-Butanone	24	18	0.893		4-Methyl-2-Pentanone	ND	18	0.893	
n-Butylbenzene	ND	0.89	0.893		Naphthalene	ND	8.9	0.893	
sec-Butylbenzene	ND	0.89	0.893		n-Propylbenzene	ND	1.8	0.893	
tert-Butylbenzene	ND	0.89	0.893		Styrene	ND	0.89	0.893	
Carbon Disulfide	ND	8.9	0.893		1,1,1,2-Tetrachloroethane	ND	0.89	0.893	
Carbon Tetrachloride	ND	0.89	0.893		1,1,2,2-Tetrachloroethane	ND	1.8	0.893	
Chlorobenzene	ND	0.89	0.893		Tetrachloroethene	ND	0.89	0.893	
Chloroethane	ND	1.8	0.893		Toluene	ND	0.89	0.893	
Chloroform	ND	0.89	0.893		1,2,3-Trichlorobenzene	ND	1.8	0.893	
Chloromethane	ND	18	0.893		1,2,4-Trichlorobenzene	ND	1.8	0.893	
2-Chlorotoluene	ND	0.89	0.893		1,1,1-Trichloroethane	ND	0.89	0.893	
4-Chlorotoluene	ND	0.89	0.893		1,1,2-Trichloroethane	ND	0.89	0.893	
Dibromochloromethane	ND	1.8	0.893		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.893	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.893		Trichloroethene	ND	1.8	0.893	
1,2-Dibromoethane	ND	0.89	0.893		Trichlorofluoromethane	ND	8.9	0.893	
Dibromomethane	ND	0.89	0.893		1,2,3-Trichloropropane	ND	1.8	0.893	
1,2-Dichlorobenzene	ND	0.89	0.893		1,2,4-Trimethylbenzene	ND	1.8	0.893	
1,3-Dichlorobenzene	ND	0.89	0.893		1,3,5-Trimethylbenzene	ND	1.8	0.893	
1,4-Dichlorobenzene	ND	0.89	0.893		Vinyl Acetate	ND	8.9	0.893	
Dichlorodifluoromethane	ND	1.8	0.893		Vinyl Chloride	ND	0.89	0.893	
1,1-Dichloroethane	ND	0.89	0.893		p/m-Xylene	ND	1.8	0.893	
1,2-Dichloroethane	ND	0.89	0.893		o-Xylene	ND	0.89	0.893	
1,1-Dichloroethene	ND	0.89	0.893		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.893	
c-1,2-Dichloroethene	ND	0.89	0.893		Tert-Butyl Alcohol (TBA)	ND	18	0.893	
t-1,2-Dichloroethene	ND	0.89	0.893		Diisopropyl Ether (DIPE)	ND	0.89	0.893	
1,2-Dichloropropane	ND	0.89	0.893		Ethyl-t-Butyl Ether (ETBE)	ND	0.89	0.893	
1,3-Dichloropropane	ND	0.89	0.893		Tert-Amyl-Methyl Ether (TAME)	ND	0.89	0.893	
2,2-Dichloropropane	ND	4.5	0.893		Ethanol	ND	450	0.893	
1,1-Dichloropropene	ND	1.8	0.893						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	71-137		1,2-Dichloroethane-d4	117	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34@1ft	**09-10-1612-3-F**	**10/19/09 16:10**	**Solid**	**GC/MS VV**	**10/19/09**	**10/26/09 12:46**	**091026L02**

Parameter	Result	RL	DF	Qual
Acetone	ND	2100	42.1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	71-137		1,2-Dichloroethane-d4	113	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-35@1ft	**09-10-1612-4-D**	**10/19/09 16:18**	**Solid**	**GC/MS VV**	**10/19/09**	**10/24/09 19:20**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	170	43	0.859		c-1,3-Dichloropropene	ND	0.86	0.859	
Benzene	ND	0.86	0.859		t-1,3-Dichloropropene	ND	1.7	0.859	
Bromobenzene	ND	0.86	0.859		Ethylbenzene	ND	0.86	0.859	
Bromochloromethane	ND	1.7	0.859		2-Hexanone	ND	17	0.859	
Bromodichloromethane	ND	0.86	0.859		Isopropylbenzene	ND	0.86	0.859	
Bromoform	ND	4.3	0.859		p-Isopropyltoluene	ND	0.86	0.859	
Bromomethane	ND	17	0.859		Methylene Chloride	ND	8.6	0.859	
2-Butanone	21	17	0.859		4-Methyl-2-Pentanone	ND	17	0.859	
n-Butylbenzene	ND	0.86	0.859		Naphthalene	ND	8.6	0.859	
sec-Butylbenzene	ND	0.86	0.859		n-Propylbenzene	ND	1.7	0.859	
tert-Butylbenzene	ND	0.86	0.859		Styrene	ND	0.86	0.859	
Carbon Disulfide	ND	8.6	0.859		1,1,1,2-Tetrachloroethane	ND	0.86	0.859	
Carbon Tetrachloride	ND	0.86	0.859		1,1,2,2-Tetrachloroethane	ND	1.7	0.859	
Chlorobenzene	ND	0.86	0.859		Tetrachloroethene	ND	0.86	0.859	
Chloroethane	ND	1.7	0.859		Toluene	ND	0.86	0.859	
Chloroform	ND	0.86	0.859		1,2,3-Trichlorobenzene	ND	1.7	0.859	
Chloromethane	ND	17	0.859		1,2,4-Trichlorobenzene	ND	1.7	0.859	
2-Chlorotoluene	ND	0.86	0.859		1,1,1-Trichloroethane	ND	0.86	0.859	
4-Chlorotoluene	ND	0.86	0.859		1,1,2-Trichloroethane	ND	0.86	0.859	
Dibromochloromethane	ND	1.7	0.859		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.859	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.859		Trichloroethene	ND	1.7	0.859	
1,2-Dibromoethane	ND	0.86	0.859		Trichlorofluoromethane	ND	8.6	0.859	
Dibromomethane	ND	0.86	0.859		1,2,3-Trichloropropane	ND	1.7	0.859	
1,2-Dichlorobenzene	ND	0.86	0.859		1,2,4-Trimethylbenzene	ND	1.7	0.859	
1,3-Dichlorobenzene	ND	0.86	0.859		1,3,5-Trimethylbenzene	ND	1.7	0.859	
1,4-Dichlorobenzene	ND	0.86	0.859		Vinyl Acetate	ND	8.6	0.859	
Dichlorodifluoromethane	ND	1.7	0.859		Vinyl Chloride	ND	0.86	0.859	
1,1-Dichloroethane	ND	0.86	0.859		p/m-Xylene	ND	1.7	0.859	
1,2-Dichloroethane	ND	0.86	0.859		o-Xylene	ND	0.86	0.859	
1,1-Dichloroethene	ND	0.86	0.859		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.859	
c-1,2-Dichloroethene	ND	0.86	0.859		Tert-Butyl Alcohol (TBA)	ND	17	0.859	
t-1,2-Dichloroethene	ND	0.86	0.859		Diisopropyl Ether (DIPE)	ND	0.86	0.859	
1,2-Dichloropropane	ND	0.86	0.859		Ethyl-t-Butyl Ether (ETBE)	ND	0.86	0.859	
1,3-Dichloropropane	ND	0.86	0.859		Tert-Amyl-Methyl Ether (TAME)	ND	0.86	0.859	
2,2-Dichloropropane	ND	4.3	0.859		Ethanol	ND	430	0.859	
1,1-Dichloropropene	ND	1.7	0.859						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	71-137		1,2-Dichloroethane-d4	116	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-35@5ft	**09-10-1612-5-D**	**10/19/09 16:25**	**Solid**	**GC/MS VV**	**10/19/09**	**10/24/09 19:45**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	67	42	0.839		c-1,3-Dichloropropene	ND	0.84	0.839	
Benzene	ND	0.84	0.839		t-1,3-Dichloropropene	ND	1.7	0.839	
Bromobenzene	ND	0.84	0.839		Ethylbenzene	ND	0.84	0.839	
Bromochloromethane	ND	1.7	0.839		2-Hexanone	ND	17	0.839	
Bromodichloromethane	ND	0.84	0.839		Isopropylbenzene	ND	0.84	0.839	
Bromoform	ND	4.2	0.839		p-Isopropyltoluene	ND	0.84	0.839	
Bromomethane	ND	17	0.839		Methylene Chloride	ND	8.4	0.839	
2-Butanone	ND	17	0.839		4-Methyl-2-Pentanone	ND	17	0.839	
n-Butylbenzene	ND	0.84	0.839		Naphthalene	ND	8.4	0.839	
sec-Butylbenzene	ND	0.84	0.839		n-Propylbenzene	ND	1.7	0.839	
tert-Butylbenzene	ND	0.84	0.839		Styrene	ND	0.84	0.839	
Carbon Disulfide	ND	8.4	0.839		1,1,1,2-Tetrachloroethane	ND	0.84	0.839	
Carbon Tetrachloride	ND	0.84	0.839		1,1,2,2-Tetrachloroethane	ND	1.7	0.839	
Chlorobenzene	ND	0.84	0.839		Tetrachloroethene	ND	0.84	0.839	
Chloroethane	ND	1.7	0.839		Toluene	ND	0.84	0.839	
Chloroform	ND	0.84	0.839		1,2,3-Trichlorobenzene	ND	1.7	0.839	
Chloromethane	ND	17	0.839		1,2,4-Trichlorobenzene	ND	1.7	0.839	
2-Chlorotoluene	ND	0.84	0.839		1,1,1-Trichloroethane	ND	0.84	0.839	
4-Chlorotoluene	ND	0.84	0.839		1,1,2-Trichloroethane	ND	0.84	0.839	
Dibromochloromethane	ND	1.7	0.839		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.839	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.839		Trichloroethene	ND	1.7	0.839	
1,2-Dibromoethane	ND	0.84	0.839		Trichlorofluoromethane	ND	8.4	0.839	
Dibromomethane	ND	0.84	0.839		1,2,3-Trichloropropane	ND	1.7	0.839	
1,2-Dichlorobenzene	ND	0.84	0.839		1,2,4-Trimethylbenzene	ND	1.7	0.839	
1,3-Dichlorobenzene	ND	0.84	0.839		1,3,5-Trimethylbenzene	ND	1.7	0.839	
1,4-Dichlorobenzene	ND	0.84	0.839		Vinyl Acetate	ND	8.4	0.839	
Dichlorodifluoromethane	ND	1.7	0.839		Vinyl Chloride	ND	0.84	0.839	
1,1-Dichloroethane	ND	0.84	0.839		p/m-Xylene	ND	1.7	0.839	
1,2-Dichloroethane	ND	0.84	0.839		o-Xylene	ND	0.84	0.839	
1,1-Dichloroethene	ND	0.84	0.839		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.839	
c-1,2-Dichloroethene	ND	0.84	0.839		Tert-Butyl Alcohol (TBA)	ND	17	0.839	
t-1,2-Dichloroethene	ND	0.84	0.839		Diisopropyl Ether (DIPE)	ND	0.84	0.839	
1,2-Dichloropropane	ND	0.84	0.839		Ethyl-t-Butyl Ether (ETBE)	ND	0.84	0.839	
1,3-Dichloropropane	ND	0.84	0.839		Tert-Amyl-Methyl Ether (TAME)	ND	0.84	0.839	
2,2-Dichloropropane	ND	4.2	0.839		Ethanol	ND	420	0.839	
1,1-Dichloropropene	ND	1.7	0.839						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-36@1ft	**09-10-1612-6-D**	**10/20/09 08:59**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 20:11**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	120	42	0.842		c-1,3-Dichloropropene	ND	0.84	0.842	
Benzene	ND	0.84	0.842		t-1,3-Dichloropropene	ND	1.7	0.842	
Bromobenzene	ND	0.84	0.842		Ethylbenzene	ND	0.84	0.842	
Bromochloromethane	ND	1.7	0.842		2-Hexanone	ND	17	0.842	
Bromodichloromethane	ND	0.84	0.842		Isopropylbenzene	ND	0.84	0.842	
Bromoform	ND	4.2	0.842		p-Isopropyltoluene	ND	0.84	0.842	
Bromomethane	ND	17	0.842		Methylene Chloride	ND	8.4	0.842	
2-Butanone	ND	17	0.842		4-Methyl-2-Pentanone	ND	17	0.842	
n-Butylbenzene	ND	0.84	0.842		Naphthalene	ND	8.4	0.842	
sec-Butylbenzene	ND	0.84	0.842		n-Propylbenzene	ND	1.7	0.842	
tert-Butylbenzene	ND	0.84	0.842		Styrene	ND	0.84	0.842	
Carbon Disulfide	ND	8.4	0.842		1,1,1,2-Tetrachloroethane	ND	0.84	0.842	
Carbon Tetrachloride	ND	0.84	0.842		1,1,2,2-Tetrachloroethane	ND	1.7	0.842	
Chlorobenzene	ND	0.84	0.842		Tetrachloroethene	ND	0.84	0.842	
Chloroethane	ND	1.7	0.842		Toluene	ND	0.84	0.842	
Chloroform	ND	0.84	0.842		1,2,3-Trichlorobenzene	ND	1.7	0.842	
Chloromethane	ND	17	0.842		1,2,4-Trichlorobenzene	ND	1.7	0.842	
2-Chlorotoluene	ND	0.84	0.842		1,1,1-Trichloroethane	ND	0.84	0.842	
4-Chlorotoluene	ND	0.84	0.842		1,1,2-Trichloroethane	ND	0.84	0.842	
Dibromochloromethane	ND	1.7	0.842		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	0.842	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.842		Trichloroethene	ND	1.7	0.842	
1,2-Dibromoethane	ND	0.84	0.842		Trichlorofluoromethane	ND	8.4	0.842	
Dibromomethane	ND	0.84	0.842		1,2,3-Trichloropropane	ND	1.7	0.842	
1,2-Dichlorobenzene	ND	0.84	0.842		1,2,4-Trimethylbenzene	ND	1.7	0.842	
1,3-Dichlorobenzene	ND	0.84	0.842		1,3,5-Trimethylbenzene	ND	1.7	0.842	
1,4-Dichlorobenzene	ND	0.84	0.842		Vinyl Acetate	ND	8.4	0.842	
Dichlorodifluoromethane	ND	1.7	0.842		Vinyl Chloride	ND	0.84	0.842	
1,1-Dichloroethane	ND	0.84	0.842		p/m-Xylene	ND	1.7	0.842	
1,2-Dichloroethane	ND	0.84	0.842		o-Xylene	ND	0.84	0.842	
1,1-Dichloroethene	ND	0.84	0.842		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.842	
c-1,2-Dichloroethene	ND	0.84	0.842		Tert-Butyl Alcohol (TBA)	ND	17	0.842	
t-1,2-Dichloroethene	ND	0.84	0.842		Diisopropyl Ether (DIPE)	ND	0.84	0.842	
1,2-Dichloropropane	ND	0.84	0.842		Ethyl-t-Butyl Ether (ETBE)	ND	0.84	0.842	
1,3-Dichloropropane	ND	0.84	0.842		Tert-Amyl-Methyl Ether (TAME)	ND	0.84	0.842	
2,2-Dichloropropane	ND	4.2	0.842		Ethanol	ND	420	0.842	
1,1-Dichloropropene	ND	1.7	0.842						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-37@1ft	**09-10-1612-7-D**	**10/20/09 09:10**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 20:37**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	65	42	0.847		c-1,3-Dichloropropene	ND	0.85	0.847	
Benzene	ND	0.85	0.847		t-1,3-Dichloropropene	ND	1.7	0.847	
Bromobenzene	ND	0.85	0.847		Ethylbenzene	ND	0.85	0.847	
Bromochloromethane	ND	1.7	0.847		2-Hexanone	ND	17	0.847	
Bromodichloromethane	ND	0.85	0.847		Isopropylbenzene	ND	0.85	0.847	
Bromoform	ND	4.2	0.847		p-Isopropyltoluene	ND	0.85	0.847	
Bromomethane	ND	17	0.847		Methylene Chloride	ND	8.5	0.847	
2-Butanone	ND	17	0.847		4-Methyl-2-Pentanone	ND	17	0.847	
n-Butylbenzene	ND	0.85	0.847		Naphthalene	ND	8.5	0.847	
sec-Butylbenzene	ND	0.85	0.847		n-Propylbenzene	ND	1.7	0.847	
tert-Butylbenzene	ND	0.85	0.847		Styrene	ND	0.85	0.847	
Carbon Disulfide	ND	8.5	0.847		1,1,1,2-Tetrachloroethane	ND	0.85	0.847	
Carbon Tetrachloride	ND	0.85	0.847		1,1,2,2-Tetrachloroethane	ND	1.7	0.847	
Chlorobenzene	ND	0.85	0.847		Tetrachloroethene	ND	0.85	0.847	
Chloroethane	ND	1.7	0.847		Toluene	ND	0.85	0.847	
Chloroform	ND	0.85	0.847		1,2,3-Trichlorobenzene	ND	1.7	0.847	
Chloromethane	ND	17	0.847		1,2,4-Trichlorobenzene	ND	1.7	0.847	
2-Chlorotoluene	ND	0.85	0.847		1,1,1-Trichloroethane	ND	0.85	0.847	
4-Chlorotoluene	ND	0.85	0.847		1,1,2-Trichloroethane	ND	0.85	0.847	
Dibromochloromethane	ND	1.7	0.847		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.847	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.847		Trichloroethene	ND	1.7	0.847	
1,2-Dibromoethane	ND	0.85	0.847		Trichlorofluoromethane	ND	8.5	0.847	
Dibromomethane	ND	0.85	0.847		1,2,3-Trichloropropane	ND	1.7	0.847	
1,2-Dichlorobenzene	ND	0.85	0.847		1,2,4-Trimethylbenzene	ND	1.7	0.847	
1,3-Dichlorobenzene	ND	0.85	0.847		1,3,5-Trimethylbenzene	ND	1.7	0.847	
1,4-Dichlorobenzene	ND	0.85	0.847		Vinyl Acetate	ND	8.5	0.847	
Dichlorodifluoromethane	ND	1.7	0.847		Vinyl Chloride	ND	0.85	0.847	
1,1-Dichloroethane	ND	0.85	0.847		p/m-Xylene	ND	1.7	0.847	
1,2-Dichloroethane	ND	0.85	0.847		o-Xylene	ND	0.85	0.847	
1,1-Dichloroethene	ND	0.85	0.847		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.847	
c-1,2-Dichloroethene	ND	0.85	0.847		Tert-Butyl Alcohol (TBA)	ND	17	0.847	
t-1,2-Dichloroethene	ND	0.85	0.847		Diisopropyl Ether (DIPE)	ND	0.85	0.847	
1,2-Dichloropropane	ND	0.85	0.847		Ethyl-t-Butyl Ether (ETBE)	ND	0.85	0.847	
1,3-Dichloropropane	ND	0.85	0.847		Tert-Amyl-Methyl Ether (TAME)	ND	0.85	0.847	
2,2-Dichloropropane	ND	4.2	0.847		Ethanol	ND	420	0.847	
1,1-Dichloropropene	ND	1.7	0.847						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	102	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38@1ft	**09-10-1612-8-D**	**10/20/09 09:25**	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09 21:03**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	130	48	0.96		c-1,3-Dichloropropene	ND	0.96	0.96	
Benzene	ND	0.96	0.96		t-1,3-Dichloropropene	ND	1.9	0.96	
Bromobenzene	ND	0.96	0.96		Ethylbenzene	ND	0.96	0.96	
Bromochloromethane	ND	1.9	0.96		2-Hexanone	ND	19	0.96	
Bromodichloromethane	ND	0.96	0.96		Isopropylbenzene	ND	0.96	0.96	
Bromoform	ND	4.8	0.96		p-Isopropyltoluene	ND	0.96	0.96	
Bromomethane	ND	19	0.96		Methylene Chloride	ND	9.6	0.96	
2-Butanone	ND	19	0.96		4-Methyl-2-Pentanone	ND	19	0.96	
n-Butylbenzene	ND	0.96	0.96		Naphthalene	ND	9.6	0.96	
sec-Butylbenzene	ND	0.96	0.96		n-Propylbenzene	ND	1.9	0.96	
tert-Butylbenzene	ND	0.96	0.96		Styrene	ND	0.96	0.96	
Carbon Disulfide	ND	9.6	0.96		1,1,1,2-Tetrachloroethane	ND	0.96	0.96	
Carbon Tetrachloride	ND	0.96	0.96		1,1,2,2-Tetrachloroethane	ND	1.9	0.96	
Chlorobenzene	ND	0.96	0.96		Tetrachloroethene	ND	0.96	0.96	
Chloroethane	ND	1.9	0.96		Toluene	ND	0.96	0.96	
Chloroform	ND	0.96	0.96		1,2,3-Trichlorobenzene	ND	1.9	0.96	
Chloromethane	ND	19	0.96		1,2,4-Trichlorobenzene	ND	1.9	0.96	
2-Chlorotoluene	ND	0.96	0.96		1,1,1-Trichloroethane	ND	0.96	0.96	
4-Chlorotoluene	ND	0.96	0.96		1,1,2-Trichloroethane	ND	0.96	0.96	
Dibromochloromethane	ND	1.9	0.96		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.6	0.96	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.96		Trichloroethene	ND	1.9	0.96	
1,2-Dibromoethane	ND	0.96	0.96		Trichlorofluoromethane	ND	9.6	0.96	
Dibromomethane	ND	0.96	0.96		1,2,3-Trichloropropane	ND	1.9	0.96	
1,2-Dichlorobenzene	ND	0.96	0.96		1,2,4-Trimethylbenzene	ND	1.9	0.96	
1,3-Dichlorobenzene	ND	0.96	0.96		1,3,5-Trimethylbenzene	ND	1.9	0.96	
1,4-Dichlorobenzene	ND	0.96	0.96		Vinyl Acetate	ND	9.6	0.96	
Dichlorodifluoromethane	ND	1.9	0.96		Vinyl Chloride	ND	0.96	0.96	
1,1-Dichloroethane	ND	0.96	0.96		p/m-Xylene	ND	1.9	0.96	
1,2-Dichloroethane	ND	0.96	0.96		o-Xylene	ND	0.96	0.96	
1,1-Dichloroethene	ND	0.96	0.96		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.96	
c-1,2-Dichloroethene	ND	0.96	0.96		Tert-Butyl Alcohol (TBA)	ND	19	0.96	
t-1,2-Dichloroethene	ND	0.96	0.96		Diisopropyl Ether (DIPE)	ND	0.96	0.96	
1,2-Dichloropropane	ND	0.96	0.96		Ethyl-t-Butyl Ether (ETBE)	ND	0.96	0.96	
1,3-Dichloropropane	ND	0.96	0.96		Tert-Amyl-Methyl Ether (TAME)	ND	0.96	0.96	
2,2-Dichloropropane	ND	4.8	0.96		Ethanol	ND	480	0.96	
1,1-Dichloropropene	ND	1.9	0.96						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38@5ft	**09-10-1612-9-D**	**10/20/09 09:40**	**Solid**	**GC/MS VV**	**10/20/09**	**10/25/09 00:55**	**091024L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	65	44	0.887		c-1,3-Dichloropropene	ND	0.89	0.887	
Benzene	ND	0.89	0.887		t-1,3-Dichloropropene	ND	1.8	0.887	
Bromobenzene	ND	0.89	0.887		Ethylbenzene	ND	0.89	0.887	
Bromochloromethane	ND	1.8	0.887		2-Hexanone	ND	18	0.887	
Bromodichloromethane	ND	0.89	0.887		Isopropylbenzene	ND	0.89	0.887	
Bromoform	ND	4.4	0.887		p-Isopropyltoluene	ND	0.89	0.887	
Bromomethane	ND	18	0.887		Methylene Chloride	ND	8.9	0.887	
2-Butanone	ND	18	0.887		4-Methyl-2-Pentanone	ND	18	0.887	
n-Butylbenzene	ND	0.89	0.887		Naphthalene	ND	8.9	0.887	
sec-Butylbenzene	ND	0.89	0.887		n-Propylbenzene	ND	1.8	0.887	
tert-Butylbenzene	ND	0.89	0.887		Styrene	ND	0.89	0.887	
Carbon Disulfide	ND	8.9	0.887		1,1,1,2-Tetrachloroethane	ND	0.89	0.887	
Carbon Tetrachloride	ND	0.89	0.887		1,1,2,2-Tetrachloroethane	ND	1.8	0.887	
Chlorobenzene	ND	0.89	0.887		Tetrachloroethene	ND	0.89	0.887	
Chloroethane	ND	1.8	0.887		Toluene	ND	0.89	0.887	
Chloroform	ND	0.89	0.887		1,2,3-Trichlorobenzene	ND	1.8	0.887	
Chloromethane	ND	18	0.887		1,2,4-Trichlorobenzene	ND	1.8	0.887	
2-Chlorotoluene	ND	0.89	0.887		1,1,1-Trichloroethane	ND	0.89	0.887	
4-Chlorotoluene	ND	0.89	0.887		1,1,2-Trichloroethane	ND	0.89	0.887	
Dibromochloromethane	ND	1.8	0.887		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.887	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.887		Trichloroethene	ND	1.8	0.887	
1,2-Dibromoethane	ND	0.89	0.887		Trichlorofluoromethane	ND	8.9	0.887	
Dibromomethane	ND	0.89	0.887		1,2,3-Trichloropropane	ND	1.8	0.887	
1,2-Dichlorobenzene	ND	0.89	0.887		1,2,4-Trimethylbenzene	ND	1.8	0.887	
1,3-Dichlorobenzene	ND	0.89	0.887		1,3,5-Trimethylbenzene	ND	1.8	0.887	
1,4-Dichlorobenzene	ND	0.89	0.887		Vinyl Acetate	ND	8.9	0.887	
Dichlorodifluoromethane	ND	1.8	0.887		Vinyl Chloride	ND	0.89	0.887	
1,1-Dichloroethane	ND	0.89	0.887		p/m-Xylene	ND	1.8	0.887	
1,2-Dichloroethane	ND	0.89	0.887		o-Xylene	ND	0.89	0.887	
1,1-Dichloroethene	ND	0.89	0.887		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.887	
c-1,2-Dichloroethene	ND	0.89	0.887		Tert-Butyl Alcohol (TBA)	ND	18	0.887	
t-1,2-Dichloroethene	ND	0.89	0.887		Diisopropyl Ether (DIPE)	ND	0.89	0.887	
1,2-Dichloropropane	ND	0.89	0.887		Ethyl-t-Butyl Ether (ETBE)	ND	0.89	0.887	
1,3-Dichloropropane	ND	0.89	0.887		Tert-Amyl-Methyl Ether (TAME)	ND	0.89	0.887	
2,2-Dichloropropane	ND	4.4	0.887		Ethanol	ND	440	0.887	
1,1-Dichloropropene	ND	1.8	0.887						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 11 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18@1ft	**09-10-1612-10-D**	**10/20/09 09:53**	**Solid**	**GC/MS VV**	**10/20/09**	**10/25/09 01:21**	**091024L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	300	43	0.858	E	c-1,3-Dichloropropene	ND	0.86	0.858	
Benzene	ND	0.86	0.858		t-1,3-Dichloropropene	ND	1.7	0.858	
Bromobenzene	ND	0.86	0.858		Ethylbenzene	ND	0.86	0.858	
Bromochloromethane	ND	1.7	0.858		2-Hexanone	ND	17	0.858	
Bromodichloromethane	ND	0.86	0.858		Isopropylbenzene	ND	0.86	0.858	
Bromoform	ND	4.3	0.858		p-Isopropyltoluene	ND	0.86	0.858	
Bromomethane	ND	17	0.858		Methylene Chloride	ND	8.6	0.858	
2-Butanone	18	17	0.858		4-Methyl-2-Pentanone	ND	17	0.858	
n-Butylbenzene	ND	0.86	0.858		Naphthalene	ND	8.6	0.858	
sec-Butylbenzene	ND	0.86	0.858		n-Propylbenzene	ND	1.7	0.858	
tert-Butylbenzene	ND	0.86	0.858		Styrene	ND	0.86	0.858	
Carbon Disulfide	ND	8.6	0.858		1,1,1,2-Tetrachloroethane	ND	0.86	0.858	
Carbon Tetrachloride	ND	0.86	0.858		1,1,2,2-Tetrachloroethane	ND	1.7	0.858	
Chlorobenzene	ND	0.86	0.858		Tetrachloroethene	ND	0.86	0.858	
Chloroethane	ND	1.7	0.858		Toluene	ND	0.86	0.858	
Chloroform	ND	0.86	0.858		1,2,3-Trichlorobenzene	ND	1.7	0.858	
Chloromethane	ND	17	0.858		1,2,4-Trichlorobenzene	ND	1.7	0.858	
2-Chlorotoluene	ND	0.86	0.858		1,1,1-Trichloroethane	ND	0.86	0.858	
4-Chlorotoluene	ND	0.86	0.858		1,1,2-Trichloroethane	ND	0.86	0.858	
Dibromochloromethane	ND	1.7	0.858		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.858	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.858		Trichloroethene	ND	1.7	0.858	
1,2-Dibromoethane	ND	0.86	0.858		Trichlorofluoromethane	ND	8.6	0.858	
Dibromomethane	ND	0.86	0.858		1,2,3-Trichloropropane	ND	1.7	0.858	
1,2-Dichlorobenzene	ND	0.86	0.858		1,2,4-Trimethylbenzene	ND	1.7	0.858	
1,3-Dichlorobenzene	ND	0.86	0.858		1,3,5-Trimethylbenzene	ND	1.7	0.858	
1,4-Dichlorobenzene	ND	0.86	0.858		Vinyl Acetate	ND	8.6	0.858	
Dichlorodifluoromethane	ND	1.7	0.858		Vinyl Chloride	ND	0.86	0.858	
1,1-Dichloroethane	ND	0.86	0.858		p/m-Xylene	ND	1.7	0.858	
1,2-Dichloroethane	ND	0.86	0.858		o-Xylene	ND	0.86	0.858	
1,1-Dichloroethene	ND	0.86	0.858		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.858	
c-1,2-Dichloroethene	ND	0.86	0.858		Tert-Butyl Alcohol (TBA)	ND	17	0.858	
t-1,2-Dichloroethene	ND	0.86	0.858		Diisopropyl Ether (DIPE)	ND	0.86	0.858	
1,2-Dichloropropane	ND	0.86	0.858		Ethyl-t-Butyl Ether (ETBE)	ND	0.86	0.858	
1,3-Dichloropropane	ND	0.86	0.858		Tert-Amyl-Methyl Ether (TAME)	ND	0.86	0.858	
2,2-Dichloropropane	ND	4.3	0.858		Ethanol	ND	430	0.858	
1,1-Dichloropropene	ND	1.7	0.858						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 12 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18@1ft	**09-10-1612-10-F**	**10/20/09 09:53**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 19:15**	**091026L02**

Parameter	Result	RL	DF	Qual
Acetone	ND	2300	46	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	71-137		1,2-Dichloroethane-d4	111	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,391**	**N/A**	**Solid**	**GC/MS VV**	**10/24/09**	**10/24/09 12:00**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	111	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 14 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,395**	**N/A**	**Solid**	**GC/MS VV**	**10/24/09**	**10/25/09 00:30**	**091024L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	71-137		1,2-Dichloroethane-d4	113	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 15 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,397**	**N/A**	**Solid**	**GC/MS VV**	**10/26/09**	**10/26/09 11:29**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	5000	100		c-1,3-Dichloropropene	ND	100	100	
Benzene	ND	100	100		t-1,3-Dichloropropene	ND	200	100	
Bromobenzene	ND	100	100		Ethylbenzene	ND	100	100	
Bromochloromethane	ND	200	100		2-Hexanone	ND	2000	100	
Bromodichloromethane	ND	100	100		Isopropylbenzene	ND	100	100	
Bromoform	ND	500	100		p-Isopropyltoluene	ND	100	100	
Bromomethane	ND	2000	100		Methylene Chloride	ND	1000	100	
2-Butanone	ND	2000	100		4-Methyl-2-Pentanone	ND	2000	100	
n-Butylbenzene	ND	100	100		Naphthalene	ND	1000	100	
sec-Butylbenzene	ND	100	100		n-Propylbenzene	ND	200	100	
tert-Butylbenzene	ND	100	100		Styrene	ND	100	100	
Carbon Disulfide	ND	1000	100		1,1,1,2-Tetrachloroethane	ND	100	100	
Carbon Tetrachloride	ND	100	100		1,1,2,2-Tetrachloroethane	ND	200	100	
Chlorobenzene	ND	100	100		Tetrachloroethene	ND	100	100	
Chloroethane	ND	200	100		Toluene	ND	100	100	
Chloroform	ND	100	100		1,2,3-Trichlorobenzene	ND	200	100	
Chloromethane	ND	2000	100		1,2,4-Trichlorobenzene	ND	200	100	
2-Chlorotoluene	ND	100	100		1,1,1-Trichloroethane	ND	100	100	
4-Chlorotoluene	ND	100	100		1,1,2-Trichloroethane	ND	100	100	
Dibromochloromethane	ND	200	100		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1000	100	
1,2-Dibromo-3-Chloropropane	ND	500	100		Trichloroethene	ND	200	100	
1,2-Dibromoethane	ND	100	100		Trichlorofluoromethane	ND	1000	100	
Dibromomethane	ND	100	100		1,2,3-Trichloropropane	ND	200	100	
1,2-Dichlorobenzene	ND	100	100		1,2,4-Trimethylbenzene	ND	200	100	
1,3-Dichlorobenzene	ND	100	100		1,3,5-Trimethylbenzene	ND	200	100	
1,4-Dichlorobenzene	ND	100	100		Vinyl Acetate	ND	1000	100	
Dichlorodifluoromethane	ND	200	100		Vinyl Chloride	ND	100	100	
1,1-Dichloroethane	ND	100	100		p/m-Xylene	ND	200	100	
1,2-Dichloroethane	ND	100	100		o-Xylene	ND	100	100	
1,1-Dichloroethene	ND	100	100		Methyl-t-Butyl Ether (MTBE)	ND	200	100	
c-1,2-Dichloroethene	ND	100	100		Tert-Butyl Alcohol (TBA)	ND	2000	100	
t-1,2-Dichloroethene	ND	100	100		Diisopropyl Ether (DIPE)	ND	100	100	
1,2-Dichloropropane	ND	100	100		Ethyl-t-Butyl Ether (ETBE)	ND	100	100	
1,3-Dichloropropane	ND	100	100		Tert-Amyl-Methyl Ether (TAME)	ND	100	100	
2,2-Dichloropropane	ND	500	100		Ethanol	ND	50000	100	
1,1-Dichloropropene	ND	200	100						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	71-137		1,2-Dichloroethane-d4	112	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09**	**091022S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	24	24	50-115	1	0-20	3
Arsenic	106	106	75-125	0	0-20	
Beryllium	103	102	75-125	1	0-20	
Cadmium	99	97	75-125	2	0-20	
Chromium	96	103	75-125	4	0-20	
Copper	111	108	75-125	2	0-20	
Lead	102	99	75-125	2	0-20	
Nickel	115	112	75-125	2	0-20	
Selenium	93	91	75-125	2	0-20	
Silver	114	113	75-125	1	0-20	
Thallium	98	97	75-125	0	0-20	
Zinc	118	109	75-125	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**GC 47**	**10/22/09**	**10/22/09**	**091022S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	84	84	64-130	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**FLAA2**	**10/27/09**	**10/27/09**	**091027S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	83	78	22-148	6	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**Mercury**	**10/22/09**	**10/23/09**	**091022S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	123	112	71-137	10	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received	10/21/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-10-1611-1	**Solid**	**Mercury**	**10/22/09**	**10/23/09**	**091022S08**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	103	75-125	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1728-1	**Solid**	**GC/MS AAA**	**10/22/09**	**10/23/09**	**091022S19**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	118	107	21-133	9	0-25	
2-Methylnaphthalene	130	117	21-140	10	0-25	
Acenaphthylene	120	111	33-145	8	0-25	
Acenaphthene	118	108	40-106	8	0-25	3
Fluorene	134	125	59-121	8	0-25	3
Phenanthrene	115	108	54-120	6	0-25	
Anthracene	104	83	27-133	22	0-25	
Fluoranthene	126	115	26-137	9	0-25	
Pyrene	116	122	6-156	5	0-25	
Benzo (a) Anthracene	111	131	33-143	17	0-25	
Chrysene	103	101	17-168	3	0-25	
Benzo (k) Fluoranthene	124	114	24-159	9	0-25	
Benzo (b) Fluoranthene	135	119	24-159	13	0-25	
Benzo (a) Pyrene	119	106	17-163	11	0-25	
Benzo (g,h,i) Perylene	119	107	0-219	11	0-25	
Indeno (1,2,3-c,d) Pyrene	155	139	0-171	11	0-25	
Dibenz (a,h) Anthracene	117	103	0-227	13	0-25	
1-Methylnaphthalene	128	115	40-160	11	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**GC 44**	**10/22/09**	**10/26/09**	**091022S17**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	97	97	50-135	0	0-25	
Gamma-BHC	98	98	50-135	0	0-25	
Beta-BHC	113	103	50-135	10	0-25	
Heptachlor	96	95	50-135	1	0-25	
Delta-BHC	105	102	50-135	2	0-25	
Aldrin	93	91	50-135	2	0-25	
Heptachlor Epoxide	89	88	50-135	1	0-25	
Endosulfan I	83	85	50-135	3	0-25	
Dieldrin	94	92	50-135	3	0-25	
4,4'-DDE	134	121	50-135	10	0-25	
Endrin	111	108	50-135	2	0-25	
Endrin Aldehyde	93	95	50-135	2	0-25	
4,4'-DDD	104	100	50-135	4	0-25	
Endosulfan II	94	91	50-135	2	0-25	
4,4'-DDT	116	108	50-135	7	0-25	
Endosulfan Sulfate	90	88	50-135	1	0-25	
Methoxychlor	110	105	50-135	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1658-1	**Solid**	**GC 31**	**10/22/09**	**10/25/09**	**091022S24**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	90	97	50-135	7	0-25	
Aroclor-1260	110	114	50-135	3	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1632-1	**Solid**	**GC/MS TT**	**10/21/09**	**10/24/09**	**091021S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	84	93	57-123	10	0-16	
2-Chlorophenol	89	98	57-111	11	0-17	
1,4-Dichlorobenzene	93	102	49-127	10	0-20	
N-Nitroso-di-n-propylamine	86	94	54-144	9	0-17	
1,2,4-Trichlorobenzene	101	110	42-132	8	0-20	
Naphthalene	88	95	50-150	8	0-20	
4-Chloro-3-Methylphenol	92	100	50-128	8	0-17	
Dimethyl Phthalate	87	91	50-150	4	0-20	
Acenaphthylene	88	90	50-150	2	0-20	
Acenaphthene	93	97	49-133	4	0-18	
4-Nitrophenol	69	69	30-144	0	0-21	
2,4-Dinitrotoluene	83	90	50-128	8	0-18	
Fluorene	87	90	50-150	3	0-20	
Pentachlorophenol	93	100	29-113	7	0-22	
Pyrene	141	144	47-149	2	0-20	
Butyl Benzyl Phthalate	128	132	50-150	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/21/09
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**GC 35**	**10/21/09**	**10/23/09**	**091021S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	96	60	30-130	47	0-30	4
Bolstar	79	53	30-130	39	0-30	4
Chlorpyrifos	87	53	30-130	49	0-30	4
Coumaphos	95	60	30-130	45	0-30	4
Diazinon	112	56	30-130	66	0-30	4
Disulfoton	113	64	30-130	55	0-30	4
Ethoprop	83	59	30-130	34	0-30	4
Fensulfothion	90	56	30-130	45	0-30	4
Fenthion	98	60	30-130	48	0-30	4
Merphos	89	56	30-130	45	0-30	4
Methyl Parathion	93	57	30-130	48	0-30	4
Phorate	76	71	30-130	7	0-30	
Ronnel	89	53	30-130	50	0-30	4
Stirophos	67	40	30-130	51	0-30	4
Tokuthion	79	50	30-130	45	0-30	4
Trichloronate	100	57	30-130	55	0-30	4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/21/09
Work Order No:	09-10-1612
Preparation:	EPA 5035
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1611-1	**Solid**	**GC/MS VV**	**10/20/09**	**10/24/09**	**091024S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	86	90	40-142	5	0-18	
Carbon Tetrachloride	90	97	37-139	7	0-20	
Chlorobenzene	82	87	43-127	6	0-26	
1,2-Dibromoethane	80	85	70-130	6	0-30	
1,2-Dichlorobenzene	70	71	40-160	1	0-36	
1,1-Dichloroethene	90	96	16-178	5	0-25	
Ethylbenzene	88	94	70-130	6	0-30	
Toluene	81	85	44-128	5	0-15	
Trichloroethene	84	88	47-131	5	0-19	
Vinyl Chloride	86	94	29-161	9	0-42	
Methyl-t-Butyl Ether (MTBE)	86	92	42-150	7	0-34	
Tert-Butyl Alcohol (TBA)	88	97	61-109	10	0-47	
Diisopropyl Ether (DIPE)	96	101	73-133	5	0-25	
Ethyl-t-Butyl Ether (ETBE)	92	96	73-132	4	0-25	
Tert-Amyl-Methyl Ether (TAME)	89	93	82-120	4	0-25	
Ethanol	64	74	39-117	13	0-99	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,859	**Solid**	**ICP 5300**	**10/22/09**	**10/23/09**	**091022L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	95	96	80-120	73-127	1	0-20	
Arsenic	98	101	80-120	73-127	2	0-20	
Beryllium	95	97	80-120	73-127	2	0-20	
Cadmium	97	100	80-120	73-127	3	0-20	
Chromium	95	97	80-120	73-127	2	0-20	
Copper	96	98	80-120	73-127	3	0-20	
Lead	101	102	80-120	73-127	1	0-20	
Nickel	101	103	80-120	73-127	1	0-20	
Selenium	91	93	80-120	73-127	1	0-20	
Silver	106	109	80-120	73-127	2	0-20	
Thallium	101	102	80-120	73-127	2	0-20	
Zinc	98	101	80-120	73-127	3	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1612
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-878	**Solid**	**GC 47**	**10/22/09**	**10/22/09**	**091022B03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	92	101	75-123	10	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1612
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,271	**Solid**	**FLAA2**	**10/27/09**	**NONE**	**091027L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	25.1	100	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1612
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,614	**Solid**	**Mercury**	**10/22/09**	**10/23/09**	**091022L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	101	100	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-385	**Solid**	**GC/MS AAA**	**10/22/09**	**10/23/09**	**091022L19**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	91	91	21-133	2-152	0	0-25	
2-Methylnaphthalene	95	93	21-140	1-160	2	0-25	
Acenaphthylene	89	91	33-145	14-164	2	0-25	
Acenaphthene	87	89	48-108	38-118	2	0-11	
Fluorene	92	95	59-121	49-131	3	0-25	
Phenanthrene	83	83	54-120	43-131	1	0-25	
Anthracene	75	69	27-133	9-151	8	0-25	
Fluoranthene	69	68	26-137	8-156	1	0-25	
Pyrene	85	88	28-106	15-119	3	0-16	
Benzo (a) Anthracene	94	97	33-143	15-161	4	0-25	
Chrysene	63	61	17-168	0-193	3	0-25	
Benzo (k) Fluoranthene	83	81	24-159	2-182	3	0-25	
Benzo (b) Fluoranthene	96	92	24-159	2-182	3	0-25	
Benzo (a) Pyrene	82	79	17-163	0-187	4	0-25	
Benzo (g,h,i) Perylene	69	72	0-227	0-265	4	0-25	
Indeno (1,2,3-c,d) Pyrene	92	97	0-171	0-200	4	0-25	
Dibenz (a,h) Anthracene	69	72	0-219	0-256	4	0-25	
1-Methylnaphthalene	95	93	40-160	20-180	2	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-754	**Solid**	**GC 44**	**10/22/09**	**10/26/09**	**091022L17**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	89	86	50-135	36-149	4	0-25	
Gamma-BHC	89	85	50-135	36-149	4	0-25	
Beta-BHC	88	83	50-135	36-149	6	0-25	
Heptachlor	91	88	50-135	36-149	4	0-25	
Delta-BHC	94	89	50-135	36-149	5	0-25	
Aldrin	87	84	50-135	36-149	4	0-25	
Heptachlor Epoxide	87	83	50-135	36-149	4	0-25	
Endosulfan I	84	83	50-135	36-149	2	0-25	
Dieldrin	88	84	50-135	36-149	4	0-25	
4,4'-DDE	90	84	50-135	36-149	8	0-25	
Endrin	92	87	50-135	36-149	5	0-25	
Endrin Aldehyde	89	87	50-135	36-149	2	0-25	
4,4'-DDD	92	87	50-135	36-149	6	0-25	
Endosulfan II	86	83	50-135	36-149	3	0-25	
4,4'-DDT	93	89	50-135	36-149	5	0-25	
Endosulfan Sulfate	87	84	50-135	36-149	4	0-25	
Methoxychlor	93	89	50-135	36-149	4	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1612
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-801	**Solid**	**GC 31**	**10/22/09**	**10/25/09**	**091022L24**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	92	94	50-135	2	0-20	
Aroclor-1260	94	98	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-967	**Solid**	**GC/MS TT**	**10/21/09**	**10/23/09**	**091021L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	101	99	59-125	48-136	2	0-15	
2-Chlorophenol	101	100	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	101	100	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	104	102	64-136	52-148	2	0-15	
1,2,4-Trichlorobenzene	108	108	58-118	48-128	0	0-18	
Naphthalene	94	94	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	107	106	61-121	51-131	0	0-14	
Dimethyl Phthalate	98	96	0-112	0-131	2	0-20	
Acenaphthylene	96	95	33-145	14-164	1	0-20	
Acenaphthene	102	101	59-125	48-136	0	0-15	
4-Nitrophenol	102	97	38-152	19-171	5	0-31	
2,4-Dinitrotoluene	111	107	51-141	36-156	3	0-16	
Fluorene	97	97	59-121	49-131	0	0-20	
Pentachlorophenol	103	102	38-116	25-129	1	0-20	
Pyrene	106	107	51-141	36-156	1	0-14	
Butyl Benzyl Phthalate	105	104	0-152	0-177	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-11	**Solid**	**GC 35**	**10/21/09**	**10/23/09**	**091021L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	90	88	30-130	13-147	2	0-30	
Bolstar	79	79	30-130	13-147	1	0-30	
Chlorpyrifos	82	82	30-130	13-147	0	0-30	
Coumaphos	91	90	30-130	13-147	1	0-30	
Diazinon	88	86	30-130	13-147	2	0-30	
Disulfoton	101	98	30-130	13-147	3	0-30	
Ethoprop	63	86	30-130	13-147	30	0-30	
Fensulfothion	86	86	30-130	13-147	0	0-30	
Fenthion	93	92	30-130	13-147	1	0-30	
Merphos	85	85	30-130	13-147	1	0-30	
Methyl Parathion	88	87	30-130	13-147	0	0-30	
Phorate	116	109	30-130	13-147	6	0-30	
Ronnel	83	83	30-130	13-147	0	0-30	
Stirophos	63	62	30-130	13-147	1	0-30	
Tokuthion	75	75	30-130	13-147	0	0-30	
Trichloronate	94	90	30-130	13-147	4	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,397	**Solid**	**GC/MS VV**	**10/26/09**	**10/26/09**	**091026L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	97	85-115	80-120	2	0-11	
Carbon Tetrachloride	109	107	68-134	57-145	2	0-14	
Chlorobenzene	103	102	83-119	77-125	1	0-9	
1,2-Dibromoethane	103	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	96	57-135	44-148	4	0-10	
1,1-Dichloroethene	102	99	72-120	64-128	2	0-10	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	97	95	67-127	57-137	2	0-10	
Trichloroethene	99	97	88-112	84-116	2	0-9	
Vinyl Chloride	89	88	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	106	106	76-124	68-132	0	0-12	
Tert-Butyl Alcohol (TBA)	105	106	31-145	12-164	2	0-23	
Diisopropyl Ether (DIPE)	103	105	74-128	65-137	2	0-10	
Ethyl-t-Butyl Ether (ETBE)	104	106	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	108	108	81-123	74-130	0	0-10	
Ethanol	77	84	44-152	26-170	9	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,391	**Solid**	**GC/MS VV**	**10/24/09**	**10/24/09**	**091024L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	100	85-115	80-120	1	0-11	
Carbon Tetrachloride	102	102	68-134	57-145	0	0-14	
Chlorobenzene	101	102	83-119	77-125	1	0-9	
1,2-Dibromoethane	99	97	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	97	96	57-135	44-148	1	0-10	
1,1-Dichloroethene	104	104	72-120	64-128	0	0-10	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	98	97	67-127	57-137	1	0-10	
Trichloroethene	98	99	88-112	84-116	1	0-9	
Vinyl Chloride	100	101	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	106	102	76-124	68-132	4	0-12	
Tert-Butyl Alcohol (TBA)	105	110	31-145	12-164	5	0-23	
Diisopropyl Ether (DIPE)	114	110	74-128	65-137	4	0-10	
Ethyl-t-Butyl Ether (ETBE)	110	110	77-125	69-133	0	0-9	
Tert-Amyl-Methyl Ether (TAME)	109	106	81-123	74-130	3	0-10	
Ethanol	84	91	44-152	26-170	8	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1612
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,395	**Solid**	**GC/MS VV**	**10/24/09**	**10/24/09**	**091024L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	102	85-115	80-120	0	0-11	
Carbon Tetrachloride	105	102	68-134	57-145	3	0-14	
Chlorobenzene	100	101	83-119	77-125	1	0-9	
1,2-Dibromoethane	100	100	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	93	95	57-135	44-148	2	0-10	
1,1-Dichloroethene	101	103	72-120	64-128	2	0-10	
Ethylbenzene	104	103	80-120	73-127	1	0-20	
Toluene	98	98	67-127	57-137	0	0-10	
Trichloroethene	101	101	88-112	84-116	0	0-9	
Vinyl Chloride	96	97	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	104	106	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	109	116	31-145	12-164	7	0-23	
Diisopropyl Ether (DIPE)	112	113	74-128	65-137	1	0-10	
Ethyl-t-Butyl Ether (ETBE)	105	109	77-125	69-133	4	0-9	
Tert-Amyl-Methyl Ether (TAME)	107	107	81-123	74-130	0	0-10	
Ethanol	82	98	44-152	26-170	19	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1612

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.00006

Project Location PG&E Radback, Oakley

Laboratory ~~Kathy Brandt~~ Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK - ARCADIS

09-10-1612

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PAHs (USEPA 8270C/8310)	Low level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	Organochlorine pesticides (USEPA 8081)	Organophosphorus pesticides (USEPA 8141/614)	PP metals (USEPA 6010B/7470/7471)	Dioxins and Furans (USEPA 8290)	PCBs (USEPA 8082)	Remarks	Total
SB-28@ 5ft	S	10/19/09 1510	1	X		X		X	X	X	X			6
SB-4 @ 6inches		10/19/09 1540	2	X	X	X	X	X	X	X	X	X		6
SB-34@ 1ft *		10/19/09 1610	3	X		X		X	X	X	X			6
SB-35@ 1ft		10/19/09 1618	4	X		X		X	X	X	X			6
SB-35 @ 5ft *		10/19/09 1625	5	X		X		X	X	X	X			6
SB-36 @ 1ft		10/20/09 0859	6	X		X		X	X	X	X			6
SB-37@ 1ft *		0910	7	X		X		X	X	X	X			6
SB-38@ 1ft *		0925	8	X		X		X	X	X	X			6
SB-38@ 5ft		0940	9	X		X		X	X	X	X			6
SB-10 @ 1ft		0953	10	X		X		X	X	X	X			6
													*TEL analysis	
													(DHS LUFT) ON THESE	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 60

Relinquished by: [signature]	Organization: ARCADIS	Date 10/20/2009	Time 1430	Seal Intact?	
Received by: [signature]	Organization: CALSCIENCE	Date 10/20/2009	Time 1430	Yes No N/A	
Relinquished by: [signature] TO GSW	Organization: CEL	Date 10/20/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: GSL	Date 10/21/09	Time 1000	Yes No N/A	

Special Instructions/Remarks:

5128 64033

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1612

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/21/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.3 °C - 0.2 °C (CF) = 4.1 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 2 oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** YC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** WB

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** YC

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 05, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1612**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/21/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

October 29, 2009

FAL Project ID: 5794

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5794**. This corresponds to your project number **09-10-1612**. The ten soil samples received on 10/21/2009 were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's (WHO) toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5794**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5794**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5794**

Received on: **10/21/2009** Project Due: **11/12/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5794-001-SA	0	09-10-1612	SB-28 @ 5 ft	EPA 8290 D/F	Soil	10/19/2009	03:10 pm	11/18/2009
5794-002-SA	0	09-10-1612	SB-4 @ 8 inches	EPA 8290 D/F	Soil	10/19/2009	03:40 pm	11/18/2009
5794-003-SA	0	09-10-1612	SB-34 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	04:10 pm	11/18/2009
5794-004-SA	0	09-10-1612	SB-35 @ 1 ft	EPA 8290 D/F	Soil	10/19/2009	04:18 pm	11/18/2009
5794-005-SA	0	09-10-1612	SB-35 @ 5 ft	EPA 8290 D/F	Soil	10/19/2009	04:25 pm	11/18/2009
5794-006-SA	0	09-10-1612	SB-36 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	08:59 am	11/19/2009
5794-007-SA	0	09-10-1612	SB-37 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	09:10 am	11/19/2009
5794-008-SA	0	09-10-1612	SB-38 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	09:25 am	11/19/2009
5794-009-SA	0	09-10-1612	SB-38 @ 5 ft	EPA 8290 D/F	Soil	10/20/2009	09:40 am	11/19/2009
5794-010-SA	0	09-10-1612	SB-18 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	09:53 am	11/19/2009

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0604		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.119		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.114		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.158		-	0.0680	Total TCDD	ND	0.0604	
1,2,3,7,8,9-HxCDD	ND	0.149		-	0.0666	Total PeCDD	ND	0.119	
1,2,3,4,6,7,8-HpCDD	ND	0.263		-	0.0927	Total HxCDD	ND	0.158	
OCDD	ND	0.533		-	0.272	Total HpCDD	ND	0.263	
2,3,7,8-TCDF	ND	0.0385		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0702		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0868		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0750		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0836		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0658		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.108		-	0.0493	Total TCDF	ND	0.0385	
1,2,3,4,6,7,8-HpCDF	ND	0.122		-	0.0404	Total PeCDF	ND	0.0868	
1,2,3,4,7,8,9-HpCDF	ND	0.134		-	0.0469	Total HxCDF	ND	0.108	
OCDF	ND	0.275		-	0.177	Total HpCDF	ND	0.134	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	96.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	77.7	40.0 - 135	
13C-OCDD	73.3	40.0 - 135	
13C-2,3,7,8-TCDF	94.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	92.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	71.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	71.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.7	40.0 - 135	
13C-OCDF	78.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.1	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 10-28-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	8.04	7.00 - 13.0	
1,2,3,7,8-PeCDD	43.8	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	44.7	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	41.1	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	42.3	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	40.0	35.0 - 65.0	
OCDD	81.4	70.0 - 130	
2,3,7,8-TCDF	8.33	7.00 - 13.0	
1,2,3,7,8-PeCDF	42.0	35.0 - 65.0	
2,3,4,7,8-PeCDF	40.0	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	40.7	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	40.8	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	40.3	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	40.5	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	40.1	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	40.2	35.0 - 65.0	
OCDF	80.3	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	112	40.0 - 135	
13C-1,2,3,7,8-PeCDD	118	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	87.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	88.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	90.7	40.0 - 135	
13C-OCDD	80.2	40.0 - 135	
13C-2,3,7,8-TCDF	119	40.0 - 135	
13C-1,2,3,7,8-PeCDF	117	40.0 - 135	
13C-2,3,4,7,8-PeCDF	116	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	87.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	87.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	86.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	95.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	80.0	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	98.6	40.0 - 135	
13C-OCDF	86.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	111	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-001-SA
Client ID: SB-28 @ 5 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 5.64 g
% Solids: 95.53

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.000342

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0460		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.0718		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0730		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.103		-	0.0680	Total TCDD	ND	0.0460	
1,2,3,7,8,9-HxCDD	ND	0.0961		-	0.0666	Total PeCDD	ND	0.0718	
1,2,3,4,6,7,8-HpCDD	ND	0.279		-	0.0927	Total HxCDD	ND	0.103	
OCDD	1.14	-	J	0.000342	0.272	Total HpCDD	ND	0.279	
2,3,7,8-TCDF	ND	0.0314		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0393		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0471		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0501		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0569		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0464		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0786		-	0.0493	Total TCDF	ND	0.0314	
1,2,3,4,6,7,8-HpCDF	ND	0.0758		-	0.0404	Total PeCDF	ND	0.0471	
1,2,3,4,7,8,9-HpCDF	ND	0.0834		-	0.0469	Total HxCDF	ND	0.0786	
OCDF	ND	0.136		-	0.177	Total HpCDF	ND	0.0834	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	110	40.0 - 135	
13C-1,2,3,7,8-PeCDD	115	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	88.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	87.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	93.0	40.0 - 135	
13C-OCDD	84.4	40.0 - 135	
13C-2,3,7,8-TCDF	113	40.0 - 135	
13C-1,2,3,7,8-PeCDF	110	40.0 - 135	
13C-2,3,4,7,8-PeCDF	111	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	86.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	88.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	87.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	95.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	82.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	99.7	40.0 - 135	
13C-OCDF	92.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	111	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-002-SA
Client ID: SB-4 @ 8 inches
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 4.75 g
% Solids: 80.55

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 17.9

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0932		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.333		-	0.0457				
1,2,3,4,7,8-HxCDD	0.289	-	J	0.0289	0.0496				
1,2,3,6,7,8-HxCDD	1.15	-	J	0.115	0.0680	Total TCDD	ND	0.0932	
1,2,3,7,8,9-HxCDD	0.840	-	J	0.0840	0.0666	Total PeCDD	ND	0.333	
1,2,3,4,6,7,8-HpCDD	17.5	-		0.175	0.0927	Total HxCDD	6.80	-	
OCDD	121	-		0.0363	0.272	Total HpCDD	30.7	-	
2,3,7,8-TCDF	17.1	-	F	1.71	0.0252				
1,2,3,7,8-PeCDF	32.6	-		0.978	0.0365				
2,3,4,7,8-PeCDF	10.7	-		3.21	0.0486				
1,2,3,4,7,8-HxCDF	53.3	-		5.33	0.0267				
1,2,3,6,7,8-HxCDF	28.5	-		2.85	0.0289				
2,3,4,6,7,8-HxCDF	13.7	-		1.37	0.0298				
1,2,3,7,8,9-HxCDF	9.42	-		0.942	0.0493	Total TCDF	224	-	
1,2,3,4,6,7,8-HpCDF	85.1	-		0.851	0.0404	Total PeCDF	186	-	
1,2,3,4,7,8,9-HpCDF	23.8	-		0.238	0.0469	Total HxCDF	253	-	
OCDF	97.7	-		0.0293	0.177	Total HpCDF	150	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	108	40.0 - 135	
13C-1,2,3,7,8-PeCDD	113	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	88.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	84.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	90.8	40.0 - 135	
13C-OCDD	85.8	40.0 - 135	
13C-2,3,7,8-TCDF	108	40.0 - 135	
13C-1,2,3,7,8-PeCDF	114	40.0 - 135	
13C-2,3,4,7,8-PeCDF	112	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	87.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	87.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	86.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	94.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	81.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	95.9	40.0 - 135	
13C-OCDF	89.3	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	107	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-003-SA
Client ID: SB-34 @ 1 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 5.46 g
% Solids: 91.07

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.317

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0948		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.182		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0816		-	0.0496				
1,2,3,6,7,8-HxCDD	0.405	-	J	0.0405	0.0680	Total TCDD	0.724	-	J
1,2,3,7,8,9-HxCDD	0.397	-	J	0.0397	0.0666	Total PeCDD	ND	0.182	
1,2,3,4,6,7,8-HpCDD	2.11	-	J	0.0211	0.0927	Total HxCDD	1.82	-	J
OCDD	14.0	-		0.00420	0.272	Total HpCDD	4.04	-	J
2,3,7,8-TCDF	0.384	-	J	0.0384	0.0252				
1,2,3,7,8-PeCDF	0.216	-	J	0.00648	0.0365				
2,3,4,7,8-PeCDF	0.237	-	J	0.0711	0.0486				
1,2,3,4,7,8-HxCDF	0.203	-	J	0.0203	0.0267				
1,2,3,6,7,8-HxCDF	0.185	-	J	0.0185	0.0289				
2,3,4,6,7,8-HxCDF	0.186	-	J	0.0186	0.0298				
1,2,3,7,8,9-HxCDF	0.316	-	J	0.0316	0.0493	Total TCDF	5.42	-	
1,2,3,4,6,7,8-HpCDF	0.597	-	J	0.00597	0.0404	Total PeCDF	5.13	-	
1,2,3,4,7,8,9-HpCDF	ND	0.0917		-	0.0469	Total HxCDF	3.05	-	J
OCDF	0.689	-	J	0.000207	0.177	Total HpCDF	1.13	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	109	40.0 - 135	
13C-1,2,3,7,8-PeCDD	111	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	87.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	87.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	94.3	40.0 - 135	
13C-OCDD	97.2	40.0 - 135	
13C-2,3,7,8-TCDF	106	40.0 - 135	
13C-1,2,3,7,8-PeCDF	105	40.0 - 135	
13C-2,3,4,7,8-PeCDF	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	85.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	87.8	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	87.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	94.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	85.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	98.1	40.0 - 135	
13C-OCDF	97.3	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	109	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 10/29/09

Reviewed By: _____
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-004-SA
Client ID: SB-35 @ 1 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 5.00 g
% Solids: 89.82

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.416

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0969		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.241		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.145		-	0.0496				
1,2,3,6,7,8-HxCDD	0.644	-	J	0.0644	0.0680	Total TCDD	0.924	-	J
1,2,3,7,8,9-HxCDD	0.450	-	J	0.0450	0.0666	Total PeCDD	ND	0.241	
1,2,3,4,6,7,8-HpCDD	7.15	-		0.0715	0.0927	Total HxCDD	2.89	-	J
OCDD	51.3	-		0.0154	0.272	Total HpCDD	13.6	-	
2,3,7,8-TCDF	0.301	-	J	0.0301	0.0252				
1,2,3,7,8-PeCDF	0.156	-	J	0.00468	0.0365				
2,3,4,7,8-PeCDF	0.306	-	J	0.0918	0.0486				
1,2,3,4,7,8-HxCDF	0.181	-	J	0.0181	0.0267				
1,2,3,6,7,8-HxCDF	0.192	-	J	0.0192	0.0289				
2,3,4,6,7,8-HxCDF	0.243	-	J	0.0243	0.0298				
1,2,3,7,8,9-HxCDF	0.210	-	J	0.0210	0.0493	Total TCDF	4.68	-	
1,2,3,4,6,7,8-HpCDF	1.06	-	J	0.0106	0.0404	Total PeCDF	5.41	-	
1,2,3,4,7,8,9-HpCDF	ND	0.103		-	0.0469	Total HxCDF	3.75	-	J
OCDF	1.13	-	J	0.000339	0.177	Total HpCDF	2.30	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	103	40.0 - 135	
13C-1,2,3,7,8-PeCDD	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	84.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	81.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	89.1	40.0 - 135	
13C-OCDD	86.7	40.0 - 135	
13C-2,3,7,8-TCDF	102	40.0 - 135	
13C-1,2,3,7,8-PeCDF	104	40.0 - 135	
13C-2,3,4,7,8-PeCDF	100	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	82.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	85.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	84.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	91.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	79.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	93.5	40.0 - 135	
13C-OCDF	90.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	101	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-005-SA
Client ID: SB-35 @ 5 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 5.59 g
% Solids: 91.04

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 0.00245

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.139		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.115		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.118		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.162		-	0.0680	Total TCDD	ND	0.139	
1,2,3,7,8,9-HxCDD	ND	0.153		-	0.0666	Total PeCDD	ND	0.115	
1,2,3,4,6,7,8-HpCDD	0.217	-	J	0.00217	0.0927	Total HxCDD	ND	0.162	
OCDD	0.929	-	J	0.000279	0.272	Total HpCDD	0.542	-	J
2,3,7,8-TCDF	ND	0.0415		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0492		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0626		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0458		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0501		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0433		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0656		-	0.0493	Total TCDF	ND	0.0415	
1,2,3,4,6,7,8-HpCDF	ND	0.0627		-	0.0404	Total PeCDF	ND	0.0626	
1,2,3,4,7,8,9-HpCDF	ND	0.0717		-	0.0469	Total HxCDF	ND	0.0656	
OCDF	ND	0.185		-	0.177	Total HpCDF	ND	0.0717	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	110	40.0 - 135	
13C-1,2,3,7,8-PeCDD	116	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	85.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	82.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	86.9	40.0 - 135	
13C-OCDD	87.3	40.0 - 135	
13C-2,3,7,8-TCDF	112	40.0 - 135	
13C-1,2,3,7,8-PeCDF	116	40.0 - 135	
13C-2,3,4,7,8-PeCDF	113	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	84.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	93.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	78.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	91.1	40.0 - 135	
13C-OCDF	90.5	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	111	50.0 - 150

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-006-SA
Client ID: SB-36 @ 1 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 5.17 g
% Solids: 91.34

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-28-2009
2005 WHO TEQ: 1.49

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0958		-	0.0252				
1,2,3,7,8-PeCDD	0.360	-	J	0.360	0.0457				
1,2,3,4,7,8-HxCDD	0.570	-	J	0.0570	0.0496				
1,2,3,6,7,8-HxCDD	2.11	-	J	0.211	0.0680	Total TCDD	2.36	-	
1,2,3,7,8,9-HxCDD	1.28	-	J	0.128	0.0666	Total PeCDD	5.93	-	
1,2,3,4,6,7,8-HpCDD	25.0	-		0.250	0.0927	Total HxCDD	16.6	-	
OCDD	126	-		0.0378	0.272	Total HpCDD	49.5	-	
2,3,7,8-TCDF	0.497	-	J	0.0497	0.0252				
1,2,3,7,8-PeCDF	0.280	-	J	0.00840	0.0365				
2,3,4,7,8-PeCDF	0.623	-	J	0.187	0.0486				
1,2,3,4,7,8-HxCDF	0.475	-	J	0.0475	0.0267				
1,2,3,6,7,8-HxCDF	0.394	-	J	0.0394	0.0289				
2,3,4,6,7,8-HxCDF	0.441	-	J	0.0441	0.0298				
1,2,3,7,8,9-HxCDF	0.453	-	J	0.0453	0.0493	Total TCDF	9.24	-	
1,2,3,4,6,7,8-HpCDF	2.40	-	J	0.0240	0.0404	Total PeCDF	9.46	-	
1,2,3,4,7,8,9-HpCDF	0.158	-	J	0.00158	0.0469	Total HxCDF	7.51	-	
OCDF	2.01	-	J	0.000603	0.177	Total HpCDF	5.78	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	105	40.0 - 135	
13C-1,2,3,7,8-PeCDD	106	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	83.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	82.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	88.4	40.0 - 135	
13C-OCDD	88.3	40.0 - 135	
13C-2,3,7,8-TCDF	113	40.0 - 135	
13C-1,2,3,7,8-PeCDF	108	40.0 - 135	
13C-2,3,4,7,8-PeCDF	106	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	81.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	81.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	90.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	78.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	94.3	40.0 - 135	
13C-OCDF	92.7	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	101	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-007-SA
Client ID: SB-37 @ 1 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 4.89 g
% Solids: 89.64

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.0147

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.126		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.114		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.133		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.188		-	0.0680	Total TCDD	ND	0.126	
1,2,3,7,8,9-HxCDD	ND	0.175		-	0.0666	Total PeCDD	ND	0.114	
1,2,3,4,6,7,8-HpCDD	0.950	-	J	0.00950	0.0927	Total HxCDD	ND	0.188	
OCDD	5.58	-	J	0.00167	0.272	Total HpCDD	1.87	-	J
2,3,7,8-TCDF	ND	0.0520		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.120		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.156		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.103		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.116		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0980		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.151		-	0.0493	Total TCDF	ND	0.0520	
1,2,3,4,6,7,8-HpCDF	0.324	-	J	0.00324	0.0404	Total PeCDF	ND	0.156	
1,2,3,4,7,8,9-HpCDF	ND	0.0684		-	0.0469	Total HxCDF	0.341	-	J
OCDF	0.871	-	J	0.000261	0.177	Total HpCDF	0.687	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	108	40.0 - 135	
13C-1,2,3,7,8-PeCDD	110	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	87.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	84.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	91.7	40.0 - 135	
13C-OCDD	87.6	40.0 - 135	
13C-2,3,7,8-TCDF	113	40.0 - 135	
13C-1,2,3,7,8-PeCDF	115	40.0 - 135	
13C-2,3,4,7,8-PeCDF	113	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	83.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	84.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	94.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	80.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	98.6	40.0 - 135	
13C-OCDF	92.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	107	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: TC
Date: 10/29/09

Reviewed By: [illegible]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-008-SA
Client ID: SB-38 @ 1 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 4.89 g
% Solids: 90.03

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.168

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.142		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.196		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.154		-	0.0496				
1,2,3,6,7,8-HxCDD	0.452	-	J	0.0452	0.0680	Total TCDD	ND	0.142	
1,2,3,7,8,9-HxCDD	0.336	-	J	0.0336	0.0666	Total PeCDD	ND	0.196	
1,2,3,4,6,7,8-HpCDD	5.85	-		0.0585	0.0927	Total HxCDD	2.20	-	J
OCDD	37.4	-		0.0112	0.272	Total HpCDD	10.5	-	
2,3,7,8-TCDF	ND	0.127		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.102		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.127		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.109		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.123		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.101		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.165		-	0.0493	Total TCDF	ND	0.127	
1,2,3,4,6,7,8-HpCDF	1.65	-	J	0.0165	0.0404	Total PeCDF	1.00	-	J
1,2,3,4,7,8,9-HpCDF	0.141	-	J	0.00141	0.0469	Total HxCDF	1.51	-	J
OCDF	5.10	-	J	0.00153	0.177	Total HpCDF	4.41	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 135	
13C-1,2,3,7,8-PeCDD	102	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	81.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	80.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	85.7	40.0 - 135	
13C-OCDD	86.8	40.0 - 135	
13C-2,3,7,8-TCDF	106	40.0 - 135	
13C-1,2,3,7,8-PeCDF	100	40.0 - 135	
13C-2,3,4,7,8-PeCDF	99.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	79.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	82.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	81.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	87.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	77.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	87.6	40.0 - 135	
13C-OCDF	89.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-009-SA
Client ID: SB-38 @ 5 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 5.27 g
% Solids: 90.69

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.00258

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.156		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.121		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.127		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.168		-	0.0680	Total TCDD	ND	0.156	
1,2,3,7,8,9-HxCDD	ND	0.162		-	0.0666	Total PeCDD	ND	0.121	
1,2,3,4,6,7,8-HpCDD	0.235	-	J	0.00235	0.0927	Total HxCDD	ND	0.168	
OCDD	0.758	-	J	0.000227	0.272	Total HpCDD	0.584	-	J
2,3,7,8-TCDF	ND	0.0409		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0554		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0690		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0491		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0553		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0459		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0740		-	0.0493	Total TCDF	ND	0.0409	
1,2,3,4,6,7,8-HpCDF	ND	0.0777		-	0.0404	Total PeCDF	ND	0.0690	
1,2,3,4,7,8,9-HpCDF	ND	0.0880		-	0.0469	Total HxCDF	ND	0.0740	
OCDF	ND	0.247		-	0.177	Total HpCDF	ND	0.0880	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	110	40.0 - 135	
13C-1,2,3,7,8-PeCDD	109	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	86.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	85.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	88.8	40.0 - 135	
13C-OCDD	80.8	40.0 - 135	
13C-2,3,7,8-TCDF	124	40.0 - 135	
13C-1,2,3,7,8-PeCDF	118	40.0 - 135	
13C-2,3,4,7,8-PeCDF	116	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	84.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	85.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	84.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	93.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	77.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	92.7	40.0 - 135	
13C-OCDF	86.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	105	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5794-010-SA
Client ID: SB-18 @ 1 ft
Matrix: Soil
Batch No: X1864

Date Extracted: 10-27-2009
Date Received: 10-21-2009
Amount: 4.89 g
% Solids: 88.80

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 10-29-2009
2005 WHO TEQ: 0.0616

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.160		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.129		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.211		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.288		-	0.0680	Total TCDD	ND	0.160	
1,2,3,7,8,9-HxCDD	ND	0.273		-	0.0666	Total PeCDD	ND	0.129	
1,2,3,4,6,7,8-HpCDD	3.60	-	J	0.0360	0.0927	Total HxCDD	ND	0.288	
OCDD	23.8	-		0.00714	0.272	Total HpCDD	6.07	-	
2,3,7,8-TCDF	ND	0.0643		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.109		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.137		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0990		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.111		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0969		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.154		-	0.0493	Total TCDF	ND	0.0643	
1,2,3,4,6,7,8-HpCDF	1.56	-	J	0.0156	0.0404	Total PeCDF	ND	0.137	
1,2,3,4,7,8,9-HpCDF	ND	0.143		-	0.0469	Total HxCDF	0.878	-	J
OCDF	9.41	-	J	0.00282	0.177	Total HpCDF	6.29	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	106	40.0 - 135	
13C-1,2,3,7,8-PeCDD	107	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	85.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	85.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	88.0	40.0 - 135	
13C-OCDD	83.0	40.0 - 135	
13C-2,3,7,8-TCDF	108	40.0 - 135	
13C-1,2,3,7,8-PeCDF	103	40.0 - 135	
13C-2,3,4,7,8-PeCDF	102	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	82.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	82.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	90.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	78.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	90.6	40.0 - 135	
13C-OCDF	89.1	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	103	50.0 - 150

Analyst: [signature]
Date: 10/29/09

Reviewed By: [signature]
Date: 10/29/09

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Frontier Analytical Laboratory
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El Dorado Hills, CA 95762
Tel: 916-934-0900
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FAL USE ONLY
Laboratory Project No.: 5794
Temperature: 0 °C

Chain of Custody

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CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1612
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

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**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-28 @ 5 ft	10-19-09	1510	S	1		X									D/F
2	-4 8 inches		1540													
3	-34 1 ft		1610													
4	-35 1		1618													
5	5		1625													
6	-36 1	10-20-09	0859													
7	-37 1		0910													
8	-38 1		0925													
9	5		0940													
10	-18 1		0953													
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-20-09	1730	Gabby Navarro	10/21/09	1055

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

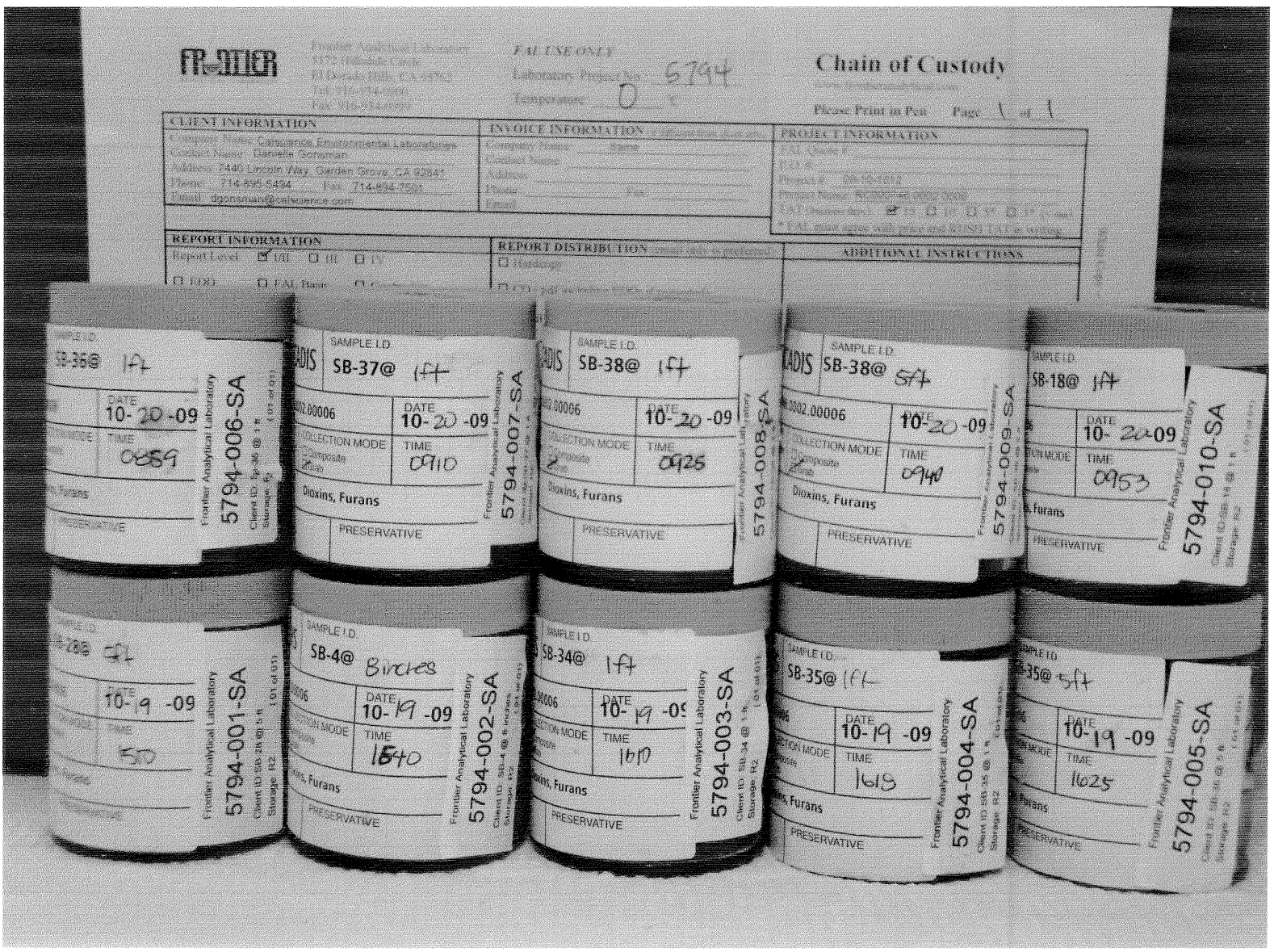
FAL Project ID: **5794**

Client:	Calscience
Client Project ID:	09-10-1612
Date Received:	10/21/2009
Time Received:	10:55 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	10
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	512864185
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/18/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

5172 Hillsdale Circle • El Dorado Hills, CA 95762 • Tel (916) 934-0900 • Fax (916) 934-0999 • www.frontieranalytical.com

FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.00006

Project Location PG&E Radback, Oakley

Laboratory ~~Kathy Brandt~~ Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK - ARCADIS

09-10-1612

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PAHs (USEPA 8270C/8310)	Low level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	Organochlorine pesticides (USEPA 8081)	Organophosphorus pesticides (USEPA 8141/614)	PP metals (USEPA 6010B/7470/7471)	Dioxins and Furans (USEPA 8290)	PCBs (USEPA 8082)	Remarks	Total
SB-28@ 5ft	S	10/19/09 1510	1	X		X		X	X	X	X			6
SB-4 @ 6inches		10/19/09 1540	2	X	X	X	X	X	X	X	X	X		6
SB-34@ 1ft *		10/19/09 1610	3	X		X		X	X	X	X			6
SB-35@ 1ft		10/19/09 1618	4	X		X		X	X	X	X			6
SB-35 @ 5ft *		10/19/09 1625	5	X		X		X	X	X	X			6
SB-36 @ 1ft		10/20/09 0859	6	X		X		X	X	X	X			6
SB-37@ 1ft *		0910	7	X		X		X	X	X	X			6
SB-38@ 1ft *		0925	8	X		X		X	X	X	X			6
SB-38@ 5ft		0940	9	X		X		X	X	X	X			6
SB-10 @ 1ft		0953	10	X		X		X	X	X	X			6
													*TEL analysis	
													(DHS LUFT) ON THESE	

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 60

Relinquished by: [signature]	Organization: ARCADIS	Date 10/20/2009	Time 1430	Seal Intact?	
Received by: [signature]	Organization: CALSCIENCE	Date 10/20/2009	Time 1430	Yes No N/A	
Relinquished by: [signature] TO GSW	Organization: CEL	Date 10/20/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: GEL	Date 10/21/09	Time 1000	Yes No N/A	

Special Instructions/Remarks:

5128 64033

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1612

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/21/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.3 °C - 0.2 °C (CF) = 4.1 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 2 oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** YC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** WB

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** YC

Calscience Environmental Laboratories, Inc.

November 03, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1693**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-A**	**10/20/09 14:51**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:49**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:08:53 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.95	0.750	1		Nickel	15.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.8	0.250	1		Thallium	ND	0.750	1	
Copper	7.01	0.500	1		Zinc	23.1	1.00	1	
Lead	3.03	0.500	1						

SB-48@1ft	**09-10-1693-2-A**	**10/20/09 15:08**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:51**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:11:08 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.41	0.750	1		Nickel	18.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	15.9	0.250	1		Thallium	ND	0.750	1	
Copper	8.36	0.500	1		Zinc	24.7	1.00	1	
Lead	2.75	0.500	1						

SB-48@5ft	**09-10-1693-3-A**	**10/20/09 15:12**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:59**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:13:24 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.77	0.750	1		Nickel	17.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	15.7	0.250	1		Thallium	ND	0.750	1	
Copper	7.78	0.500	1		Zinc	20.9	1.00	1	
Lead	2.74	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-49@1ft	**09-10-1693-4-B**	**10/20/09 15:33**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 17:04**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 5:31:20 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.55	0.750	1		Nickel	11.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	8.98	0.250	1		Thallium	ND	0.750	1	
Copper	5.41	0.500	1		Zinc	31.6	1.00	1	
Lead	4.80	0.500	1						

SB-50@1ft	**09-10-1693-5-A**	**10/20/09 16:00**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:02**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:15:40 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.03	0.750	1		Nickel	14.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.7	0.250	1		Thallium	ND	0.750	1	
Copper	6.79	0.500	1		Zinc	20.7	1.00	1	
Lead	3.89	0.500	1						

SB-25@1ft	**09-10-1693-6-A**	**10/20/09 16:09**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:03**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:17:57 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.66	0.750	1		Nickel	11.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.40	0.250	1		Thallium	ND	0.750	1	
Copper	4.44	0.500	1		Zinc	15.8	1.00	1	
Lead	2.43	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@1ft	**09-10-1693-7-A**	**10/20/09 16:20**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:04**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:20:10 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.19	0.750	1		Nickel	16.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.6	0.250	1		Thallium	ND	0.750	1	
Copper	5.69	0.500	1		Zinc	21.4	1.00	1	
Lead	6.17	0.500	1						

SB-24@5ft	**09-10-1693-8-A**	**10/20/09 16:26**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:06**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:22:20 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.72	0.750	1		Nickel	15.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.9	0.250	1		Thallium	ND	0.750	1	
Copper	5.90	0.500	1		Zinc	17.4	1.00	1	
Lead	1.94	0.500	1						

SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:07**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:29:01 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.13	0.750	1		Nickel	18.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	16.2	0.250	1		Thallium	ND	0.750	1	
Copper	6.69	0.500	1		Zinc	19.3	1.00	1	
Lead	2.19	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12@1ft	**09-10-1693-10-A**	**10/20/09 16:45**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:09**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:31:12 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.84	0.750	1		Nickel	15.0	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.7	0.250	1		Thallium	ND	0.750	1	
Copper	5.71	0.500	1		Zinc	19.1	1.00	1	
Lead	2.53	0.500	1						

SB-47@1ft	**09-10-1693-11-A**	**10/20/09 15:01**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:10**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:33:23 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.09	0.750	1		Nickel	16.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.0	0.250	1		Thallium	ND	0.750	1	
Copper	7.58	0.500	1		Zinc	22.5	1.00	1	
Lead	3.99	0.500	1						

SB-11@1ft	**09-10-1693-13-A**	**10/21/09 09:05**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:11**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 1:35:35 PM with batch 091026L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.99	0.750	1		Nickel	16.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.9	0.250	1		Thallium	ND	0.750	1	
Copper	7.20	0.500	1		Zinc	20.8	1.00	1	
Lead	5.23	0.500	1						

Method Blank	**099-04-007-6,618**	**N/A**	**Solid**	**Mercury**	**10/26/09**	**10/26/09 12:52**	**091026L02**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-12,866**	**N/A**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:42**	**091023L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-A**	**10/20/09 14:51**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 18:18**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	61-145	

SB-25@1ft	**09-10-1693-6-A**	**10/20/09 16:09**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 18:34**	**091027B02**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	5.5	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

SB-24@1ft	**09-10-1693-7-A**	**10/20/09 16:20**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 18:50**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

SB-24@5ft	**09-10-1693-8-A**	**10/20/09 16:26**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 19:06**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 19:22**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

SB-12@1ft	**09-10-1693-10-A**	**10/20/09 16:45**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 19:38**	**091027B02**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	6.2	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

Method Blank	**099-12-025-886**	**N/A**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 13:44**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-48@1ft	**09-10-1693-2-A**	**10/20/09 15:08**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-47@1ft	**09-10-1693-11-A**	**10/20/09 15:01**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,273**	**N/A**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-A**	**10/20/09 14:51**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 18:30**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-135		2,4,5,6-Tetrachloro-m-Xylene	98	50-135	

SB-48@1ft	**09-10-1693-2-A**	**10/20/09 15:08**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 18:58**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	50-135		2,4,5,6-Tetrachloro-m-Xylene	102	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-48@5ft	**09-10-1693-3-A**	**10/20/09 15:12**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 19:25**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	66	50-135		2,4,5,6-Tetrachloro-m-Xylene	68	50-135	

SB-49@1ft	**09-10-1693-4-A**	**10/20/09 15:33**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 19:52**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-50@1ft	**09-10-1693-5-A**	**10/20/09 16:00**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 20:20**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	50-135		2,4,5,6-Tetrachloro-m-Xylene	91	50-135	

SB-25@1ft	**09-10-1693-6-A**	**10/20/09 16:09**	**Solid**	**GC 51**	**10/24/09**	**10/29/09 04:00**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@1ft	**09-10-1693-7-A**	**10/20/09 16:20**	**Solid**	**GC 51**	**10/24/09**	**10/29/09 04:27**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	3.5	5.0	1.6	1	J
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	7.3	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-135		2,4,5,6-Tetrachloro-m-Xylene	73	50-135	

SB-24@5ft	**09-10-1693-8-A**	**10/20/09 16:26**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 21:41**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	50-135		2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 22:09**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	50-135		2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

SB-12@1ft	**09-10-1693-10-A**	**10/20/09 16:45**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 22:36**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	50-135		2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-47@1ft	**09-10-1693-11-A**	**10/20/09 15:01**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 23:03**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	50-135		2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

SB-1@1ft	**09-10-1693-12-A**	**10/21/09 08:56**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 23:30**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	77	50-135		2,4,5,6-Tetrachloro-m-Xylene	68	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11@1ft	**09-10-1693-13-A**	**10/21/09 09:05**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 23:58**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	56	50-135		2,4,5,6-Tetrachloro-m-Xylene	58	50-135	

Method Blank	**099-12-537-756**	**N/A**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 16:41**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-135		2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-A**	**10/20/09 14:51**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 22:42**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	50-130		2,4,5,6-Tetrachloro-m-Xylene	91	50-130	

SB-48@1ft	**09-10-1693-2-A**	**10/20/09 15:08**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 23:01**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	50-130		2,4,5,6-Tetrachloro-m-Xylene	98	50-130	

SB-48@5ft	**09-10-1693-3-A**	**10/20/09 15:12**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 23:20**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	77	50-130		2,4,5,6-Tetrachloro-m-Xylene	62	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-49@1ft	**09-10-1693-4-A**	**10/20/09 15:33**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 23:39**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	50-130		2,4,5,6-Tetrachloro-m-Xylene	81	50-130	

SB-50@1ft	**09-10-1693-5-A**	**10/20/09 16:00**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 23:59**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-130		2,4,5,6-Tetrachloro-m-Xylene	86	50-130	

SB-25@1ft	**09-10-1693-6-A**	**10/20/09 16:09**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 15:14**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	64	50-130		2,4,5,6-Tetrachloro-m-Xylene	54	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@1ft	**09-10-1693-7-A**	**10/20/09 16:20**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 00:37**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

SB-24@5ft	**09-10-1693-8-A**	**10/20/09 16:26**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 00:56**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	50-130		2,4,5,6-Tetrachloro-m-Xylene	93	50-130	

SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 02:50**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	50-130		2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-47@1ft	**09-10-1693-11-A**	**10/20/09 15:01**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 03:09**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	50-130		2,4,5,6-Tetrachloro-m-Xylene	75	50-130	

SB-11@1ft	**09-10-1693-13-A**	**10/21/09 09:05**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 03:29**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	60	50-130		2,4,5,6-Tetrachloro-m-Xylene	55	50-130	

Method Blank	**099-12-535-803**	**N/A**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 22:23**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	50-130		2,4,5,6-Tetrachloro-m-Xylene	80	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C SIM PAHs
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11@1ft	**09-10-1693-13-A**	**10/21/09 09:05**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09 16:15**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Benzo (a) Anthracene	0.0028	0.020	0.0026	1	J
2-Methylnaphthalene	ND	0.020	0.0024	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	
Anthracene	ND	0.020	0.0062	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Fluoranthene	ND	0.020	0.0019	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Pyrene	ND	0.020	0.0033	1		1-Methylnaphthalene	ND	0.020	0.0043	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	106	18-162		2-Fluorobiphenyl	108	14-146	
p-Terphenyl-d14	91	34-148					

Method Blank	**099-06-010-386**	**N/A**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09 13:06**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	
Anthracene	ND	0.020	0.0062	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Fluoranthene	ND	0.020	0.0019	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Pyrene	ND	0.020	0.0033	1		1-Methylnaphthalene	ND	0.020	0.0043	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	97	18-162		2-Fluorobiphenyl	102	14-146	
p-Terphenyl-d14	105	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-A**	**10/20/09 14:51**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 14:20**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	42-120		Phenol-d6	95	46-118	
Nitrobenzene-d5	91	42-150		2-Fluorobiphenyl	89	38-134	
2,4,6-Tribromophenol	87	36-132		p-Terphenyl-d14	100	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25@1ft	**09-10-1693-6-A**	**10/20/09 16:09**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 14:46**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	88	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	88	42-150		2-Fluorobiphenyl	88	38-134	
2,4,6-Tribromophenol	81	36-132		p-Terphenyl-d14	97	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@1ft	**09-10-1693-7-A**	**10/20/09 16:20**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 15:13**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	42-120		Phenol-d6	93	46-118	
Nitrobenzene-d5	87	42-150		2-Fluorobiphenyl	86	38-134	
2,4,6-Tribromophenol	81	36-132		p-Terphenyl-d14	94	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@5ft	**09-10-1693-8-A**	**10/20/09 16:26**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 15:39**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	88	42-120		Phenol-d6	94	46-118	
Nitrobenzene-d5	87	42-150		2-Fluorobiphenyl	84	38-134	
2,4,6-Tribromophenol	79	36-132		p-Terphenyl-d14	92	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 16:06**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	0.11	0.50	0.11	1	J
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	42-120		Phenol-d6	84	46-118	
Nitrobenzene-d5	78	42-150		2-Fluorobiphenyl	76	38-134	
2,4,6-Tribromophenol	72	36-132		p-Terphenyl-d14	85	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12@1ft	**09-10-1693-10-A**	**10/20/09 16:45**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 16:32**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	85	42-120		Phenol-d6	87	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	75	36-132		p-Terphenyl-d14	88	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-966**	**N/A**	**Solid**	**GC/MS SS**	**10/23/09**	**10/23/09 18:28**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	42-120		Phenol-d6	86	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	66	36-132		p-Terphenyl-d14	96	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11@1ft	**09-10-1693-13-A**	**10/21/09 09:05**	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09 13:53**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	42-120		Phenol-d6	87	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	72	36-132		p-Terphenyl-d14	89	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-966**	**N/A**	**Solid**	**GC/MS SS**	**10/23/09**	**10/23/09 18:28**	**091023L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	42-120		Phenol-d6	86	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	66	36-132		p-Terphenyl-d14	96	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-A**	**10/20/09 14:51**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 00:54**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	103	30-130	

SB-48@1ft	**09-10-1693-2-A**	**10/20/09 15:08**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 01:39**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	105	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-48@5ft	**09-10-1693-3-A**	**10/20/09 15:12**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 03:56**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	70	30-130	

SB-49@1ft	**09-10-1693-4-A**	**10/20/09 15:33**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 04:42**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	78	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-50@1ft	**09-10-1693-5-A**	**10/20/09 16:00**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 05:28**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	56	30-130	

SB-25@1ft	**09-10-1693-6-A**	**10/20/09 16:09**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 06:14**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	39	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@1ft	**09-10-1693-7-A**	**10/20/09 16:20**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 06:59**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	60	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@5ft	**09-10-1693-8-A**	**10/20/09 16:26**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 07:45**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	54	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10@5ft	**09-10-1693-9-A**	**10/20/09 16:41**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 08:31**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	40	30-130	

SB-12@1ft	**09-10-1693-10-A**	**10/20/09 16:45**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 09:16**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	52	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-47@1ft	**09-10-1693-11-A**	**10/20/09 15:01**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 10:02**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	50	30-130	

SB-1@1ft	**09-10-1693-12-A**	**10/21/09 08:56**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 10:48**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	56	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11@1ft	**09-10-1693-13-A**	**10/21/09 09:05**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 11:34**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	52	30-130	

Method Blank	**099-12-465-14**	**N/A**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 17:16**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	97	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23@1ft	**09-10-1693-1-D**	**10/20/09 14:51**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 13:38**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	73	43	0.858		c-1,3-Dichloropropene	ND	0.86	0.858	
Benzene	ND	0.86	0.858		t-1,3-Dichloropropene	ND	1.7	0.858	
Bromobenzene	ND	0.86	0.858		Ethylbenzene	ND	0.86	0.858	
Bromochloromethane	ND	1.7	0.858		2-Hexanone	ND	17	0.858	
Bromodichloromethane	ND	0.86	0.858		Isopropylbenzene	ND	0.86	0.858	
Bromoform	ND	4.3	0.858		p-Isopropyltoluene	ND	0.86	0.858	
Bromomethane	ND	17	0.858		Methylene Chloride	ND	8.6	0.858	
2-Butanone	ND	17	0.858		4-Methyl-2-Pentanone	ND	17	0.858	
n-Butylbenzene	ND	0.86	0.858		Naphthalene	ND	8.6	0.858	
sec-Butylbenzene	ND	0.86	0.858		n-Propylbenzene	ND	1.7	0.858	
tert-Butylbenzene	ND	0.86	0.858		Styrene	ND	0.86	0.858	
Carbon Disulfide	ND	8.6	0.858		1,1,1,2-Tetrachloroethane	ND	0.86	0.858	
Carbon Tetrachloride	ND	0.86	0.858		1,1,2,2-Tetrachloroethane	ND	1.7	0.858	
Chlorobenzene	ND	0.86	0.858		Tetrachloroethene	ND	0.86	0.858	
Chloroethane	ND	1.7	0.858		Toluene	ND	0.86	0.858	
Chloroform	ND	0.86	0.858		1,2,3-Trichlorobenzene	ND	1.7	0.858	
Chloromethane	ND	17	0.858		1,2,4-Trichlorobenzene	ND	1.7	0.858	
2-Chlorotoluene	ND	0.86	0.858		1,1,1-Trichloroethane	ND	0.86	0.858	
4-Chlorotoluene	ND	0.86	0.858		1,1,2-Trichloroethane	ND	0.86	0.858	
Dibromochloromethane	ND	1.7	0.858		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.858	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.858		Trichloroethene	ND	1.7	0.858	
1,2-Dibromoethane	ND	0.86	0.858		Trichlorofluoromethane	ND	8.6	0.858	
Dibromomethane	ND	0.86	0.858		1,2,3-Trichloropropane	ND	1.7	0.858	
1,2-Dichlorobenzene	ND	0.86	0.858		1,2,4-Trimethylbenzene	ND	1.7	0.858	
1,3-Dichlorobenzene	ND	0.86	0.858		1,3,5-Trimethylbenzene	ND	1.7	0.858	
1,4-Dichlorobenzene	ND	0.86	0.858		Vinyl Acetate	ND	8.6	0.858	
Dichlorodifluoromethane	ND	1.7	0.858		Vinyl Chloride	ND	0.86	0.858	
1,1-Dichloroethane	ND	0.86	0.858		p/m-Xylene	ND	1.7	0.858	
1,2-Dichloroethane	ND	0.86	0.858		o-Xylene	ND	0.86	0.858	
1,1-Dichloroethene	ND	0.86	0.858		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.858	
c-1,2-Dichloroethene	ND	0.86	0.858		Tert-Butyl Alcohol (TBA)	ND	17	0.858	
t-1,2-Dichloroethene	ND	0.86	0.858		Diisopropyl Ether (DIPE)	ND	0.86	0.858	
1,2-Dichloropropane	ND	0.86	0.858		Ethyl-t-Butyl Ether (ETBE)	ND	0.86	0.858	
1,3-Dichloropropane	ND	0.86	0.858		Tert-Amyl-Methyl Ether (TAME)	ND	0.86	0.858	
2,2-Dichloropropane	ND	4.3	0.858		Ethanol	ND	430	0.858	
1,1-Dichloropropene	ND	1.7	0.858						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	71-137		1,2-Dichloroethane-d4	118	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25@1ft	**09-10-1693-6-D**	**10/20/09 16:09**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 14:04**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	74	49	0.984		c-1,3-Dichloropropene	ND	0.98	0.984	
Benzene	ND	0.98	0.984		t-1,3-Dichloropropene	ND	2.0	0.984	
Bromobenzene	ND	0.98	0.984		Ethylbenzene	ND	0.98	0.984	
Bromochloromethane	ND	2.0	0.984		2-Hexanone	ND	20	0.984	
Bromodichloromethane	ND	0.98	0.984		Isopropylbenzene	ND	0.98	0.984	
Bromoform	ND	4.9	0.984		p-Isopropyltoluene	ND	0.98	0.984	
Bromomethane	ND	20	0.984		Methylene Chloride	ND	9.8	0.984	
2-Butanone	ND	20	0.984		4-Methyl-2-Pentanone	ND	20	0.984	
n-Butylbenzene	ND	0.98	0.984		Naphthalene	ND	9.8	0.984	
sec-Butylbenzene	ND	0.98	0.984		n-Propylbenzene	ND	2.0	0.984	
tert-Butylbenzene	ND	0.98	0.984		Styrene	ND	0.98	0.984	
Carbon Disulfide	ND	9.8	0.984		1,1,1,2-Tetrachloroethane	ND	0.98	0.984	
Carbon Tetrachloride	ND	0.98	0.984		1,1,2,2-Tetrachloroethane	ND	2.0	0.984	
Chlorobenzene	ND	0.98	0.984		Tetrachloroethene	ND	0.98	0.984	
Chloroethane	ND	2.0	0.984		Toluene	ND	0.98	0.984	
Chloroform	ND	0.98	0.984		1,2,3-Trichlorobenzene	ND	2.0	0.984	
Chloromethane	ND	20	0.984		1,2,4-Trichlorobenzene	ND	2.0	0.984	
2-Chlorotoluene	ND	0.98	0.984		1,1,1-Trichloroethane	ND	0.98	0.984	
4-Chlorotoluene	ND	0.98	0.984		1,1,2-Trichloroethane	ND	0.98	0.984	
Dibromochloromethane	ND	2.0	0.984		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.8	0.984	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.984		Trichloroethene	ND	2.0	0.984	
1,2-Dibromoethane	ND	0.98	0.984		Trichlorofluoromethane	ND	9.8	0.984	
Dibromomethane	ND	0.98	0.984		1,2,3-Trichloropropane	ND	2.0	0.984	
1,2-Dichlorobenzene	ND	0.98	0.984		1,2,4-Trimethylbenzene	ND	2.0	0.984	
1,3-Dichlorobenzene	ND	0.98	0.984		1,3,5-Trimethylbenzene	ND	2.0	0.984	
1,4-Dichlorobenzene	ND	0.98	0.984		Vinyl Acetate	ND	9.8	0.984	
Dichlorodifluoromethane	ND	2.0	0.984		Vinyl Chloride	ND	0.98	0.984	
1,1-Dichloroethane	ND	0.98	0.984		p/m-Xylene	ND	2.0	0.984	
1,2-Dichloroethane	ND	0.98	0.984		o-Xylene	ND	0.98	0.984	
1,1-Dichloroethene	ND	0.98	0.984		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.984	
c-1,2-Dichloroethene	ND	0.98	0.984		Tert-Butyl Alcohol (TBA)	ND	20	0.984	
t-1,2-Dichloroethene	ND	0.98	0.984		Diisopropyl Ether (DIPE)	ND	0.98	0.984	
1,2-Dichloropropane	ND	0.98	0.984		Ethyl-t-Butyl Ether (ETBE)	ND	0.98	0.984	
1,3-Dichloropropane	ND	0.98	0.984		Tert-Amyl-Methyl Ether (TAME)	ND	0.98	0.984	
2,2-Dichloropropane	ND	4.9	0.984		Ethanol	ND	490	0.984	
1,1-Dichloropropene	ND	2.0	0.984						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@1ft	**09-10-1693-7-D**	**10/20/09 16:20**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 14:30**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	91	52	1.04		c-1,3-Dichloropropene	ND	1.0	1.04	
Benzene	ND	1.0	1.04		t-1,3-Dichloropropene	ND	2.1	1.04	
Bromobenzene	ND	1.0	1.04		Ethylbenzene	ND	1.0	1.04	
Bromochloromethane	ND	2.1	1.04		2-Hexanone	ND	21	1.04	
Bromodichloromethane	ND	1.0	1.04		Isopropylbenzene	ND	1.0	1.04	
Bromoform	ND	5.2	1.04		p-Isopropyltoluene	ND	1.0	1.04	
Bromomethane	ND	21	1.04		Methylene Chloride	ND	10	1.04	
2-Butanone	ND	21	1.04		4-Methyl-2-Pentanone	ND	21	1.04	
n-Butylbenzene	ND	1.0	1.04		Naphthalene	ND	10	1.04	
sec-Butylbenzene	ND	1.0	1.04		n-Propylbenzene	ND	2.1	1.04	
tert-Butylbenzene	ND	1.0	1.04		Styrene	ND	1.0	1.04	
Carbon Disulfide	ND	10	1.04		1,1,1,2-Tetrachloroethane	ND	1.0	1.04	
Carbon Tetrachloride	ND	1.0	1.04		1,1,2,2-Tetrachloroethane	ND	2.1	1.04	
Chlorobenzene	ND	1.0	1.04		Tetrachloroethene	ND	1.0	1.04	
Chloroethane	ND	2.1	1.04		Toluene	ND	1.0	1.04	
Chloroform	ND	1.0	1.04		1,2,3-Trichlorobenzene	ND	2.1	1.04	
Chloromethane	ND	21	1.04		1,2,4-Trichlorobenzene	ND	2.1	1.04	
2-Chlorotoluene	ND	1.0	1.04		1,1,1-Trichloroethane	ND	1.0	1.04	
4-Chlorotoluene	ND	1.0	1.04		1,1,2-Trichloroethane	ND	1.0	1.04	
Dibromochloromethane	ND	2.1	1.04		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.04	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.04		Trichloroethene	ND	2.1	1.04	
1,2-Dibromoethane	ND	1.0	1.04		Trichlorofluoromethane	ND	10	1.04	
Dibromomethane	ND	1.0	1.04		1,2,3-Trichloropropane	ND	2.1	1.04	
1,2-Dichlorobenzene	ND	1.0	1.04		1,2,4-Trimethylbenzene	ND	2.1	1.04	
1,3-Dichlorobenzene	ND	1.0	1.04		1,3,5-Trimethylbenzene	ND	2.1	1.04	
1,4-Dichlorobenzene	ND	1.0	1.04		Vinyl Acetate	ND	10	1.04	
Dichlorodifluoromethane	ND	2.1	1.04		Vinyl Chloride	ND	1.0	1.04	
1,1-Dichloroethane	ND	1.0	1.04		p/m-Xylene	ND	2.1	1.04	
1,2-Dichloroethane	ND	1.0	1.04		o-Xylene	ND	1.0	1.04	
1,1-Dichloroethene	ND	1.0	1.04		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.04	
c-1,2-Dichloroethene	ND	1.0	1.04		Tert-Butyl Alcohol (TBA)	ND	21	1.04	
t-1,2-Dichloroethene	ND	1.0	1.04		Diisopropyl Ether (DIPE)	ND	1.0	1.04	
1,2-Dichloropropane	ND	1.0	1.04		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.04	
1,3-Dichloropropane	ND	1.0	1.04		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.04	
2,2-Dichloropropane	ND	5.2	1.04		Ethanol	ND	520	1.04	
1,1-Dichloropropene	ND	2.1	1.04						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24@5ft	**09-10-1693-8-D**	**10/20/09 16:26**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 14:56**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	74	55	1.1		c-1,3-Dichloropropene	ND	1.1	1.1	
Benzene	ND	1.1	1.1		t-1,3-Dichloropropene	ND	2.2	1.1	
Bromobenzene	ND	1.1	1.1		Ethylbenzene	ND	1.1	1.1	
Bromochloromethane	ND	2.2	1.1		2-Hexanone	ND	22	1.1	
Bromodichloromethane	ND	1.1	1.1		Isopropylbenzene	ND	1.1	1.1	
Bromoform	ND	5.5	1.1		p-Isopropyltoluene	ND	1.1	1.1	
Bromomethane	ND	22	1.1		Methylene Chloride	ND	11	1.1	
2-Butanone	ND	22	1.1		4-Methyl-2-Pentanone	ND	22	1.1	
n-Butylbenzene	ND	1.1	1.1		Naphthalene	ND	11	1.1	
sec-Butylbenzene	ND	1.1	1.1		n-Propylbenzene	ND	2.2	1.1	
tert-Butylbenzene	ND	1.1	1.1		Styrene	ND	1.1	1.1	
Carbon Disulfide	ND	11	1.1		1,1,1,2-Tetrachloroethane	ND	1.1	1.1	
Carbon Tetrachloride	ND	1.1	1.1		1,1,2,2-Tetrachloroethane	ND	2.2	1.1	
Chlorobenzene	ND	1.1	1.1		Tetrachloroethene	ND	1.1	1.1	
Chloroethane	ND	2.2	1.1		Toluene	ND	1.1	1.1	
Chloroform	ND	1.1	1.1		1,2,3-Trichlorobenzene	ND	2.2	1.1	
Chloromethane	ND	22	1.1		1,2,4-Trichlorobenzene	ND	2.2	1.1	
2-Chlorotoluene	ND	1.1	1.1		1,1,1-Trichloroethane	ND	1.1	1.1	
4-Chlorotoluene	ND	1.1	1.1		1,1,2-Trichloroethane	ND	1.1	1.1	
Dibromochloromethane	ND	2.2	1.1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.1	
1,2-Dibromo-3-Chloropropane	ND	5.5	1.1		Trichloroethene	ND	2.2	1.1	
1,2-Dibromoethane	ND	1.1	1.1		Trichlorofluoromethane	ND	11	1.1	
Dibromomethane	ND	1.1	1.1		1,2,3-Trichloropropane	ND	2.2	1.1	
1,2-Dichlorobenzene	ND	1.1	1.1		1,2,4-Trimethylbenzene	ND	2.2	1.1	
1,3-Dichlorobenzene	ND	1.1	1.1		1,3,5-Trimethylbenzene	ND	2.2	1.1	
1,4-Dichlorobenzene	ND	1.1	1.1		Vinyl Acetate	ND	11	1.1	
Dichlorodifluoromethane	ND	2.2	1.1		Vinyl Chloride	ND	1.1	1.1	
1,1-Dichloroethane	ND	1.1	1.1		p/m-Xylene	ND	2.2	1.1	
1,2-Dichloroethane	ND	1.1	1.1		o-Xylene	ND	1.1	1.1	
1,1-Dichloroethene	ND	1.1	1.1		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.1	
c-1,2-Dichloroethene	ND	1.1	1.1		Tert-Butyl Alcohol (TBA)	ND	22	1.1	
t-1,2-Dichloroethene	ND	1.1	1.1		Diisopropyl Ether (DIPE)	ND	1.1	1.1	
1,2-Dichloropropane	ND	1.1	1.1		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.1	
1,3-Dichloropropane	ND	1.1	1.1		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.1	
2,2-Dichloropropane	ND	5.5	1.1		Ethanol	ND	550	1.1	
1,1-Dichloropropene	ND	2.2	1.1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10@5ft	**09-10-1693-9-D**	**10/20/09 16:41**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 19:40**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	74	52	1.05		c-1,3-Dichloropropene	ND	1.0	1.05	
Benzene	ND	1.0	1.05		t-1,3-Dichloropropene	ND	2.1	1.05	
Bromobenzene	ND	1.0	1.05		Ethylbenzene	ND	1.0	1.05	
Bromochloromethane	ND	2.1	1.05		2-Hexanone	ND	21	1.05	
Bromodichloromethane	ND	1.0	1.05		Isopropylbenzene	ND	1.0	1.05	
Bromoform	ND	5.2	1.05		p-Isopropyltoluene	ND	1.0	1.05	
Bromomethane	ND	21	1.05		Methylene Chloride	ND	10	1.05	
2-Butanone	ND	21	1.05		4-Methyl-2-Pentanone	ND	21	1.05	
n-Butylbenzene	ND	1.0	1.05		Naphthalene	ND	10	1.05	
sec-Butylbenzene	ND	1.0	1.05		n-Propylbenzene	ND	2.1	1.05	
tert-Butylbenzene	ND	1.0	1.05		Styrene	ND	1.0	1.05	
Carbon Disulfide	ND	10	1.05		1,1,1,2-Tetrachloroethane	ND	1.0	1.05	
Carbon Tetrachloride	ND	1.0	1.05		1,1,2,2-Tetrachloroethane	ND	2.1	1.05	
Chlorobenzene	ND	1.0	1.05		Tetrachloroethene	ND	1.0	1.05	
Chloroethane	ND	2.1	1.05		Toluene	ND	1.0	1.05	
Chloroform	ND	1.0	1.05		1,2,3-Trichlorobenzene	ND	2.1	1.05	
Chloromethane	ND	21	1.05		1,2,4-Trichlorobenzene	ND	2.1	1.05	
2-Chlorotoluene	ND	1.0	1.05		1,1,1-Trichloroethane	ND	1.0	1.05	
4-Chlorotoluene	ND	1.0	1.05		1,1,2-Trichloroethane	ND	1.0	1.05	
Dibromochloromethane	ND	2.1	1.05		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.05	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.05		Trichloroethene	ND	2.1	1.05	
1,2-Dibromoethane	ND	1.0	1.05		Trichlorofluoromethane	ND	10	1.05	
Dibromomethane	ND	1.0	1.05		1,2,3-Trichloropropane	ND	2.1	1.05	
1,2-Dichlorobenzene	ND	1.0	1.05		1,2,4-Trimethylbenzene	ND	2.1	1.05	
1,3-Dichlorobenzene	ND	1.0	1.05		1,3,5-Trimethylbenzene	ND	2.1	1.05	
1,4-Dichlorobenzene	ND	1.0	1.05		Vinyl Acetate	ND	10	1.05	
Dichlorodifluoromethane	ND	2.1	1.05		Vinyl Chloride	ND	1.0	1.05	
1,1-Dichloroethane	ND	1.0	1.05		p/m-Xylene	ND	2.1	1.05	
1,2-Dichloroethane	ND	1.0	1.05		o-Xylene	ND	1.0	1.05	
1,1-Dichloroethene	ND	1.0	1.05		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05	
c-1,2-Dichloroethene	ND	1.0	1.05		Tert-Butyl Alcohol (TBA)	ND	21	1.05	
t-1,2-Dichloroethene	ND	1.0	1.05		Diisopropyl Ether (DIPE)	ND	1.0	1.05	
1,2-Dichloropropane	ND	1.0	1.05		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.05	
1,3-Dichloropropane	ND	1.0	1.05		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.05	
2,2-Dichloropropane	ND	5.2	1.05		Ethanol	ND	520	1.05	
1,1-Dichloropropene	ND	2.1	1.05						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12@1ft	**09-10-1693-10-D**	**10/20/09 16:45**	**Solid**	**GC/MS VV**	**10/20/09**	**10/26/09 20:06**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	72	50	1.01		c-1,3-Dichloropropene	ND	1.0	1.01	
Benzene	ND	1.0	1.01		t-1,3-Dichloropropene	ND	2.0	1.01	
Bromobenzene	ND	1.0	1.01		Ethylbenzene	ND	1.0	1.01	
Bromochloromethane	ND	2.0	1.01		2-Hexanone	ND	20	1.01	
Bromodichloromethane	ND	1.0	1.01		Isopropylbenzene	ND	1.0	1.01	
Bromoform	ND	5.0	1.01		p-Isopropyltoluene	ND	1.0	1.01	
Bromomethane	ND	20	1.01		Methylene Chloride	ND	10	1.01	
2-Butanone	ND	20	1.01		4-Methyl-2-Pentanone	ND	20	1.01	
n-Butylbenzene	ND	1.0	1.01		Naphthalene	ND	10	1.01	
sec-Butylbenzene	ND	1.0	1.01		n-Propylbenzene	ND	2.0	1.01	
tert-Butylbenzene	ND	1.0	1.01		Styrene	ND	1.0	1.01	
Carbon Disulfide	ND	10	1.01		1,1,1,2-Tetrachloroethane	ND	1.0	1.01	
Carbon Tetrachloride	ND	1.0	1.01		1,1,2,2-Tetrachloroethane	ND	2.0	1.01	
Chlorobenzene	ND	1.0	1.01		Tetrachloroethene	ND	1.0	1.01	
Chloroethane	ND	2.0	1.01		Toluene	ND	1.0	1.01	
Chloroform	ND	1.0	1.01		1,2,3-Trichlorobenzene	ND	2.0	1.01	
Chloromethane	ND	20	1.01		1,2,4-Trichlorobenzene	ND	2.0	1.01	
2-Chlorotoluene	ND	1.0	1.01		1,1,1-Trichloroethane	ND	1.0	1.01	
4-Chlorotoluene	ND	1.0	1.01		1,1,2-Trichloroethane	ND	1.0	1.01	
Dibromochloromethane	ND	2.0	1.01		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.01	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.01		Trichloroethene	ND	2.0	1.01	
1,2-Dibromoethane	ND	1.0	1.01		Trichlorofluoromethane	ND	10	1.01	
Dibromomethane	ND	1.0	1.01		1,2,3-Trichloropropane	ND	2.0	1.01	
1,2-Dichlorobenzene	ND	1.0	1.01		1,2,4-Trimethylbenzene	ND	2.0	1.01	
1,3-Dichlorobenzene	ND	1.0	1.01		1,3,5-Trimethylbenzene	ND	2.0	1.01	
1,4-Dichlorobenzene	ND	1.0	1.01		Vinyl Acetate	ND	10	1.01	
Dichlorodifluoromethane	ND	2.0	1.01		Vinyl Chloride	ND	1.0	1.01	
1,1-Dichloroethane	ND	1.0	1.01		p/m-Xylene	ND	2.0	1.01	
1,2-Dichloroethane	ND	1.0	1.01		o-Xylene	ND	1.0	1.01	
1,1-Dichloroethene	ND	1.0	1.01		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.01	
c-1,2-Dichloroethene	ND	1.0	1.01		Tert-Butyl Alcohol (TBA)	ND	20	1.01	
t-1,2-Dichloroethene	ND	1.0	1.01		Diisopropyl Ether (DIPE)	ND	1.0	1.01	
1,2-Dichloropropane	ND	1.0	1.01		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.01	
1,3-Dichloropropane	ND	1.0	1.01		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.01	
2,2-Dichloropropane	ND	5.0	1.01		Ethanol	ND	500	1.01	
1,1-Dichloropropene	ND	2.0	1.01						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-1@1ft	**09-10-1693-12-D**	**10/21/09 08:56**	**Solid**	**GC/MS VV**	**10/21/09**	**10/26/09 20:32**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	64	46	0.911		c-1,3-Dichloropropene	ND	0.91	0.911	
Benzene	ND	0.91	0.911		t-1,3-Dichloropropene	ND	1.8	0.911	
Bromobenzene	ND	0.91	0.911		Ethylbenzene	ND	0.91	0.911	
Bromochloromethane	ND	1.8	0.911		2-Hexanone	ND	18	0.911	
Bromodichloromethane	ND	0.91	0.911		Isopropylbenzene	ND	0.91	0.911	
Bromoform	ND	4.6	0.911		p-Isopropyltoluene	ND	0.91	0.911	
Bromomethane	ND	18	0.911		Methylene Chloride	ND	9.1	0.911	
2-Butanone	ND	18	0.911		4-Methyl-2-Pentanone	ND	18	0.911	
n-Butylbenzene	ND	0.91	0.911		Naphthalene	ND	9.1	0.911	
sec-Butylbenzene	ND	0.91	0.911		n-Propylbenzene	ND	1.8	0.911	
tert-Butylbenzene	ND	0.91	0.911		Styrene	ND	0.91	0.911	
Carbon Disulfide	ND	9.1	0.911		1,1,1,2-Tetrachloroethane	ND	0.91	0.911	
Carbon Tetrachloride	ND	0.91	0.911		1,1,2,2-Tetrachloroethane	ND	1.8	0.911	
Chlorobenzene	ND	0.91	0.911		Tetrachloroethene	ND	0.91	0.911	
Chloroethane	ND	1.8	0.911		Toluene	ND	0.91	0.911	
Chloroform	ND	0.91	0.911		1,2,3-Trichlorobenzene	ND	1.8	0.911	
Chloromethane	ND	18	0.911		1,2,4-Trichlorobenzene	ND	1.8	0.911	
2-Chlorotoluene	ND	0.91	0.911		1,1,1-Trichloroethane	ND	0.91	0.911	
4-Chlorotoluene	ND	0.91	0.911		1,1,2-Trichloroethane	ND	0.91	0.911	
Dibromochloromethane	ND	1.8	0.911		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.1	0.911	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.911		Trichloroethene	ND	1.8	0.911	
1,2-Dibromoethane	ND	0.91	0.911		Trichlorofluoromethane	ND	9.1	0.911	
Dibromomethane	ND	0.91	0.911		1,2,3-Trichloropropane	ND	1.8	0.911	
1,2-Dichlorobenzene	ND	0.91	0.911		1,2,4-Trimethylbenzene	ND	1.8	0.911	
1,3-Dichlorobenzene	ND	0.91	0.911		1,3,5-Trimethylbenzene	ND	1.8	0.911	
1,4-Dichlorobenzene	ND	0.91	0.911		Vinyl Acetate	ND	9.1	0.911	
Dichlorodifluoromethane	ND	1.8	0.911		Vinyl Chloride	ND	0.91	0.911	
1,1-Dichloroethane	ND	0.91	0.911		p/m-Xylene	ND	1.8	0.911	
1,2-Dichloroethane	ND	0.91	0.911		o-Xylene	ND	0.91	0.911	
1,1-Dichloroethene	ND	0.91	0.911		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.911	
c-1,2-Dichloroethene	ND	0.91	0.911		Tert-Butyl Alcohol (TBA)	ND	18	0.911	
t-1,2-Dichloroethene	ND	0.91	0.911		Diisopropyl Ether (DIPE)	ND	0.91	0.911	
1,2-Dichloropropane	ND	0.91	0.911		Ethyl-t-Butyl Ether (ETBE)	ND	0.91	0.911	
1,3-Dichloropropane	ND	0.91	0.911		Tert-Amyl-Methyl Ether (TAME)	ND	0.91	0.911	
2,2-Dichloropropane	ND	4.6	0.911		Ethanol	ND	460	0.911	
1,1-Dichloropropene	ND	1.8	0.911						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11@1ft	**09-10-1693-13-D**	**10/21/09 09:05**	**Solid**	**GC/MS VV**	**10/21/09**	**10/26/09 20:58**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	71	41	0.817		c-1,3-Dichloropropene	ND	0.82	0.817	
Benzene	ND	0.82	0.817		t-1,3-Dichloropropene	ND	1.6	0.817	
Bromobenzene	ND	0.82	0.817		Ethylbenzene	ND	0.82	0.817	
Bromochloromethane	ND	1.6	0.817		2-Hexanone	ND	16	0.817	
Bromodichloromethane	ND	0.82	0.817		Isopropylbenzene	ND	0.82	0.817	
Bromoform	ND	4.1	0.817		p-Isopropyltoluene	ND	0.82	0.817	
Bromomethane	ND	16	0.817		Methylene Chloride	ND	8.2	0.817	
2-Butanone	ND	16	0.817		4-Methyl-2-Pentanone	ND	16	0.817	
n-Butylbenzene	ND	0.82	0.817		Naphthalene	ND	8.2	0.817	
sec-Butylbenzene	ND	0.82	0.817		n-Propylbenzene	ND	1.6	0.817	
tert-Butylbenzene	ND	0.82	0.817		Styrene	ND	0.82	0.817	
Carbon Disulfide	ND	8.2	0.817		1,1,1,2-Tetrachloroethane	ND	0.82	0.817	
Carbon Tetrachloride	ND	0.82	0.817		1,1,2,2-Tetrachloroethane	ND	1.6	0.817	
Chlorobenzene	ND	0.82	0.817		Tetrachloroethene	ND	0.82	0.817	
Chloroethane	ND	1.6	0.817		Toluene	ND	0.82	0.817	
Chloroform	ND	0.82	0.817		1,2,3-Trichlorobenzene	ND	1.6	0.817	
Chloromethane	ND	16	0.817		1,2,4-Trichlorobenzene	ND	1.6	0.817	
2-Chlorotoluene	ND	0.82	0.817		1,1,1-Trichloroethane	ND	0.82	0.817	
4-Chlorotoluene	ND	0.82	0.817		1,1,2-Trichloroethane	ND	0.82	0.817	
Dibromochloromethane	ND	1.6	0.817		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.817	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.817		Trichloroethene	ND	1.6	0.817	
1,2-Dibromoethane	ND	0.82	0.817		Trichlorofluoromethane	ND	8.2	0.817	
Dibromomethane	ND	0.82	0.817		1,2,3-Trichloropropane	ND	1.6	0.817	
1,2-Dichlorobenzene	ND	0.82	0.817		1,2,4-Trimethylbenzene	ND	1.6	0.817	
1,3-Dichlorobenzene	ND	0.82	0.817		1,3,5-Trimethylbenzene	ND	1.6	0.817	
1,4-Dichlorobenzene	ND	0.82	0.817		Vinyl Acetate	ND	8.2	0.817	
Dichlorodifluoromethane	ND	1.6	0.817		Vinyl Chloride	ND	0.82	0.817	
1,1-Dichloroethane	ND	0.82	0.817		p/m-Xylene	ND	1.6	0.817	
1,2-Dichloroethane	ND	0.82	0.817		o-Xylene	ND	0.82	0.817	
1,1-Dichloroethene	ND	0.82	0.817		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.817	
c-1,2-Dichloroethene	ND	0.82	0.817		Tert-Butyl Alcohol (TBA)	ND	16	0.817	
t-1,2-Dichloroethene	ND	0.82	0.817		Diisopropyl Ether (DIPE)	ND	0.82	0.817	
1,2-Dichloropropane	ND	0.82	0.817		Ethyl-t-Butyl Ether (ETBE)	ND	0.82	0.817	
1,3-Dichloropropane	ND	0.82	0.817		Tert-Amyl-Methyl Ether (TAME)	ND	0.82	0.817	
2,2-Dichloropropane	ND	4.1	0.817		Ethanol	ND	410	0.817	
1,1-Dichloropropene	ND	1.6	0.817						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,396**	**N/A**	**Solid**	**GC/MS VV**	**10/26/09**	**10/26/09 11:55**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	112	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-48@5ft	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	22	24	50-115	8	0-20	3
Arsenic	117	114	75-125	2	0-20	
Beryllium	111	111	75-125	0	0-20	
Cadmium	104	105	75-125	1	0-20	
Chromium	113	113	75-125	0	0-20	
Copper	114	114	75-125	0	0-20	
Lead	108	109	75-125	1	0-20	
Nickel	117	119	75-125	1	0-20	
Selenium	99	99	75-125	0	0-20	
Silver	115	115	75-125	0	0-20	
Thallium	107	107	75-125	0	0-20	
Zinc	114	116	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1837-2	**Solid**	**GC 47**	**10/27/09**	**10/28/09**	**091027S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	112	109	64-130	3	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1721-2	**Solid**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01A**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	105	107	22-148	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-48@5ft	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	107	71-137	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-11@1ft	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09**	**091023S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	114	114	21-133	1	0-25	
2-Methylnaphthalene	106	104	21-140	1	0-25	
Acenaphthylene	112	109	33-145	3	0-25	
Acenaphthene	114	109	40-106	4	0-25	3
Fluorene	118	113	59-121	4	0-25	
Phenanthrene	124	119	54-120	4	0-25	3
Anthracene	90	87	27-133	4	0-25	
Fluoranthene	125	123	26-137	2	0-25	
Pyrene	110	106	6-156	3	0-25	
Benzo (a) Anthracene	142	123	33-143	14	0-25	
Chrysene	133	132	17-168	1	0-25	
Benzo (k) Fluoranthene	113	102	24-159	11	0-25	
Benzo (b) Fluoranthene	108	95	24-159	14	0-25	
Benzo (a) Pyrene	103	93	17-163	10	0-25	
Benzo (g,h,i) Perylene	91	80	0-219	13	0-25	
Indeno (1,2,3-c,d) Pyrene	120	118	0-171	2	0-25	
Dibenz (a,h) Anthracene	91	89	0-227	2	0-25	
1-Methylnaphthalene	118	119	40-160	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1837-2	**Solid**	**GC 51**	**10/24/09**	**10/27/09**	**091024S11**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	101	100	50-135	1	0-25	
Gamma-BHC	102	101	50-135	1	0-25	
Beta-BHC	110	106	50-135	3	0-25	
Heptachlor	103	103	50-135	0	0-25	
Delta-BHC	106	105	50-135	1	0-25	
Aldrin	101	102	50-135	2	0-25	
Heptachlor Epoxide	98	91	50-135	7	0-25	
Endosulfan I	107	102	50-135	5	0-25	
Dieldrin	104	101	50-135	3	0-25	
4,4'-DDE	132	127	50-135	3	0-25	
Endrin	160	140	50-135	13	0-25	3
Endrin Aldehyde	97	92	50-135	5	0-25	
4,4'-DDD	115	112	50-135	3	0-25	
Endosulfan II	100	98	50-135	2	0-25	
4,4'-DDT	131	122	50-135	6	0-25	
Endosulfan Sulfate	105	102	50-135	3	0-25	
Methoxychlor	111	109	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1837-2	**Solid**	**GC 31**	**10/24/09**	**10/28/09**	**091024S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	88	84	50-135	4	0-20	
Aroclor-1260	94	94	50-135	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-11@1ft	**Solid**	**GC/MS SS**	**10/23/09**	**10/25/09**	**091023S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	87	86	57-123	2	0-16	
2-Chlorophenol	89	87	57-111	2	0-17	
1,4-Dichlorobenzene	92	90	49-127	2	0-20	
N-Nitroso-di-n-propylamine	99	98	54-144	1	0-17	
1,2,4-Trichlorobenzene	92	92	42-132	0	0-20	
Naphthalene	83	82	50-150	1	0-20	
4-Chloro-3-Methylphenol	91	91	50-128	0	0-17	
Dimethyl Phthalate	82	81	50-150	1	0-20	
Acenaphthylene	84	83	50-150	2	0-20	
Acenaphthene	91	89	49-133	2	0-18	
4-Nitrophenol	80	83	30-144	4	0-21	
2,4-Dinitrotoluene	89	88	50-128	1	0-18	
Fluorene	90	89	50-150	1	0-20	
Pentachlorophenol	78	78	29-113	1	0-22	
Pyrene	97	91	47-149	6	0-20	
Butyl Benzyl Phthalate	90	85	50-150	7	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1837-2	**Solid**	**GC 35**	**10/24/09**	**10/28/09**	**091024S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	104	104	30-130	0	0-30	
Bolstar	93	92	30-130	1	0-30	
Chlorpyrifos	97	96	30-130	2	0-30	
Coumaphos	109	109	30-130	0	0-30	
Diazinon	102	102	30-130	0	0-30	
Disulfoton	108	107	30-130	1	0-30	
Ethoprop	102	99	30-130	3	0-30	
Fensulfothion	116	115	30-130	1	0-30	
Fenthion	102	101	30-130	1	0-30	
Merphos	82	87	30-130	6	0-30	
Methyl Parathion	99	97	30-130	2	0-30	
Phorate	117	114	30-130	2	0-30	
Ronnel	96	94	30-130	2	0-30	
Stirophos	114	115	30-130	1	0-30	
Tokuthion	87	88	30-130	1	0-30	
Trichloronate	107	105	30-130	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1693
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,866	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	100	101	80-120	73-127	1	0-20	
Arsenic	105	105	80-120	73-127	0	0-20	
Beryllium	101	101	80-120	73-127	0	0-20	
Cadmium	105	104	80-120	73-127	0	0-20	
Chromium	102	102	80-120	73-127	0	0-20	
Copper	106	106	80-120	73-127	0	0-20	
Lead	108	108	80-120	73-127	0	0-20	
Nickel	109	108	80-120	73-127	0	0-20	
Selenium	95	97	80-120	73-127	2	0-20	
Silver	114	114	80-120	73-127	0	0-20	
Thallium	109	108	80-120	73-127	0	0-20	
Zinc	106	106	80-120	73-127	0	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1693
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-886	**Solid**	**GC 47**	**10/27/09**	**10/28/09**	**091027B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	123	128	75-123	4	0-12	X

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1693
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,273	**Solid**	**FLAA2**	**10/29/09**	**NONE**	**091029L01A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	26.5	106	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1693
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,618	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	100	100	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-386	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09**	**091023L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	101	99	21-133	2-152	2	0-25	
2-Methylnaphthalene	76	75	21-140	1-160	0	0-25	
Acenaphthylene	80	80	33-145	14-164	0	0-25	
Acenaphthene	96	96	48-108	38-118	1	0-11	
Fluorene	95	94	59-121	49-131	1	0-25	
Phenanthrene	95	95	54-120	43-131	0	0-25	
Anthracene	60	61	27-133	9-151	1	0-25	
Fluoranthene	89	89	26-137	8-156	1	0-25	
Pyrene	84	84	28-106	15-119	0	0-16	
Benzo (a) Anthracene	84	84	33-143	15-161	0	0-25	
Chrysene	88	80	17-168	0-193	10	0-25	
Benzo (k) Fluoranthene	109	108	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	88	87	24-159	2-182	1	0-25	
Benzo (a) Pyrene	83	82	17-163	0-187	1	0-25	
Benzo (g,h,i) Perylene	84	82	0-227	0-265	3	0-25	
Indeno (1,2,3-c,d) Pyrene	111	109	0-171	0-200	2	0-25	
Dibenz (a,h) Anthracene	85	83	0-219	0-256	2	0-25	
1-Methylnaphthalene	73	91	40-160	20-180	22	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-756	**Solid**	**GC 51**	**10/24/09**	**10/29/09**	**091024L11**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	110	109	50-135	36-149	1	0-25	
Gamma-BHC	110	109	50-135	36-149	1	0-25	
Beta-BHC	112	110	50-135	36-149	1	0-25	
Heptachlor	116	117	50-135	36-149	1	0-25	
Delta-BHC	109	109	50-135	36-149	0	0-25	
Aldrin	117	119	50-135	36-149	2	0-25	
Heptachlor Epoxide	111	112	50-135	36-149	0	0-25	
Endosulfan I	113	113	50-135	36-149	1	0-25	
Dieldrin	90	90	50-135	36-149	0	0-25	
4,4'-DDE	126	129	50-135	36-149	3	0-25	
Endrin	120	121	50-135	36-149	1	0-25	
Endrin Aldehyde	109	108	50-135	36-149	0	0-25	
4,4'-DDD	118	119	50-135	36-149	1	0-25	
Endosulfan II	109	99	50-135	36-149	9	0-25	
4,4'-DDT	124	103	50-135	36-149	19	0-25	
Endosulfan Sulfate	107	108	50-135	36-149	0	0-25	
Methoxychlor	110	111	50-135	36-149	1	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1693
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-803	**Solid**	**GC 31**	**10/24/09**	**10/28/09**	**091024L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	85	102	50-135	19	0-20	
Aroclor-1260	104	103	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-966	**Solid**	**GC/MS SS**	**10/23/09**	**10/23/09**	**091023L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	85	86	59-125	48-136	1	0-15	
2-Chlorophenol	85	86	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	88	88	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	74	76	64-136	52-148	3	0-15	
1,2,4-Trichlorobenzene	90	91	58-118	48-128	1	0-18	
Naphthalene	84	85	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	87	89	61-121	51-131	2	0-14	
Dimethyl Phthalate	86	86	0-112	0-131	0	0-20	
Acenaphthylene	75	77	33-145	14-164	2	0-20	
Acenaphthene	83	84	59-125	48-136	1	0-15	
4-Nitrophenol	85	94	38-152	19-171	10	0-31	
2,4-Dinitrotoluene	87	88	51-141	36-156	1	0-16	
Fluorene	91	91	59-121	49-131	0	0-20	
Pentachlorophenol	69	70	38-116	25-129	1	0-20	
Pyrene	103	103	51-141	36-156	0	0-14	
Butyl Benzyl Phthalate	98	98	0-152	0-177	0	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1693
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-14	**Solid**	**GC 35**	**10/24/09**	**10/28/09**	**091024L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	101	127	30-130	13-147	23	0-30	
Bolstar	91	101	30-130	13-147	11	0-30	
Chlorpyrifos	96	114	30-130	13-147	17	0-30	
Coumaphos	105	129	30-130	13-147	20	0-30	
Diazinon	103	120	30-130	13-147	16	0-30	
Disulfoton	106	124	30-130	13-147	16	0-30	
Ethoprop	99	111	30-130	13-147	12	0-30	
Fensulfothion	113	128	30-130	13-147	13	0-30	
Fenthion	100	122	30-130	13-147	19	0-30	
Merphos	82	102	30-130	13-147	21	0-30	
Methyl Parathion	96	115	30-130	13-147	17	0-30	
Phorate	112	126	30-130	13-147	11	0-30	
Ronnel	92	112	30-130	13-147	19	0-30	
Stirophos	114	136	30-130	13-147	18	0-30	ME
Tokuthion	86	105	30-130	13-147	20	0-30	
Trichloronate	106	128	30-130	13-147	19	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1693
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,396	**Solid**	**GC/MS VV**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	97	85-115	80-120	2	0-11	
Carbon Tetrachloride	109	107	68-134	57-145	2	0-14	
Chlorobenzene	103	102	83-119	77-125	1	0-9	
1,2-Dibromoethane	103	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	96	57-135	44-148	4	0-10	
1,1-Dichloroethene	102	99	72-120	64-128	2	0-10	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	97	95	67-127	57-137	2	0-10	
Trichloroethene	99	97	88-112	84-116	2	0-9	
Vinyl Chloride	89	88	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	106	106	76-124	68-132	0	0-12	
Tert-Butyl Alcohol (TBA)	105	106	31-145	12-164	2	0-23	
Diisopropyl Ether (DIPE)	103	105	74-128	65-137	2	0-10	
Ethyl-t-Butyl Ether (ETBE)	104	106	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	108	108	81-123	74-130	0	0-10	
Ethanol	77	84	44-152	26-170	9	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1693

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: PC000746.0002.00006

Project Location: PG&E Radback, Oakley

Laboratory: Cal Science

Project Manager: Kathy Brandt

Sampler(s)/Affiliation: LK - ARCADIS

09-10-1693

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	Low level VOCs (USEPA 8260B/5035)	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorous Pesticides (USEPA 8141/614)	PP Metals (USEPA 6010B/7470/7471)	Dioxins/Furans (USEPA 8290)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Remarks	Total
SB-23@ 1ft	S	10/20/09 1451	1	X	X	X		X	X	X	X	X			6
~~SB-47@ 1ft HOLD~~		~~(10/20/09) 1501~~				X						X			6
SB-48@ 1ft		1508	2		X	HOLD	X	X	X	X	X	HOLD			6
SB-48@ 5ft		1512	3		X	HOLD		X	X	X	HOLD	HOLD			6
SB-49 @ 1ft		1533	4		X	HOLD		X	X	X	X	HOLD			6
SB-50 @ 1ft		1600	5		X	HOLD		X	X	X	X	HOLD			6
SB-25 @ 1ft		1609	6	X	X	X		X	X	X	X	X			6
SB-24 @ 1ft		1620	7	X	X	X		X	X	X	X	X			6
SB-24 @ 5ft		1626	8	X	X	X		X	X	X	HOLD	X			6
SB-10 @ 5ft		1641	9	X	X	X	X	X	X	X		X			6
SB-12 @ 1ft		1645	10	X		X		X	X	X	X	X			6
SB-47@ 1ft	S	10/20/09 1501	11		X	HOLD	X	X	X	X	X	HOLD		~~TEL analysis (DHS LUFT~~ LK 10/20/09	6
SB-1 @ 1ft	S	10/21/09 0856	12			X		X	X		X				6
SB-11 @ 1ft	S	10/21/09 0905	13		X	X		X	X	X	HOLD	X	X		

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 72

Relinquished by: [signature]	Organization: ARCADIS	Date 10/21/09	Time 1030	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/21/09	Time 1030	Yes No N/A	
Relinquished by: [signature] TO GSO	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1015	Yes No N/A	

Special Instructions/Remarks:

GSO 912875729,30

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1693

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.1 °C - 0.2 °C (CF) = 1.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** D.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ #9 ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® 3 ☑ 60ml PB

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** D.L

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** WSC

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** D.L

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1693

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.2 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** D.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** D.L

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** W.S.

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** D.L

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 06, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1693**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

November 5, 2009

FAL Project ID: 5797

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5797**. This corresponds to your project number **09-10-1693**. Twelve soil samples were received on 10/22/2009 in good condition. Per your instructions, samples 5797-003-SA, 5797-008-SA, and 5797-012-SA (Calscience IDs: SB-48 @ 5ft , SB-24 @ 5ft, and SB-11 @ 1ft respectively) were placed on hold. The remaining nine samples were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's (WHO) toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5797**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5797**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5797**

Received on: **10/22/2009** Project Due: **11/13/2009** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5797-001-SA	0	09-10-1693	SB-23 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	02:51 pm	11/19/2009
5797-002-SA	0	09-10-1693	SB-48 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	03:08 pm	11/19/2009
5797-003-SA	0	09-10-1693	SB-48 @ 5 ft	EPA 8290 D/F	Soil	10/20/2009	03:11 pm	11/19/2009
5797-004-SA	0	09-10-1693	SB-49 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	03:33 pm	11/19/2009
5797-005-SA	0	09-10-1693	SB-50 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	04:00 pm	11/19/2009
5797-006-SA	0	09-10-1693	SB-25 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	04:09 pm	11/19/2009
5797-007-SA	0	09-10-1693	SB-24 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	04:20 pm	11/19/2009
5797-008-SA	0	09-10-1693	SB-24 @ 5 ft	EPA 8290 D/F	Soil	10/20/2009	04:26 pm	11/19/2009
5797-009-SA	0	09-10-1693	SB-12 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	04:45 pm	11/19/2009
5797-010-SA	0	09-10-1693	SB-47 @ 1 ft	EPA 8290 D/F	Soil	10/20/2009	03:01 pm	11/19/2009
5797-011-SA	0	09-10-1693	SB-1 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	08:56 am	11/20/2009
5797-012-SA	0	09-10-1693	SB-11 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	09:05 am	11/20/2009

FAL Sample ID	Notes
5797-003-SA	'HOLD. Using hand written sampling time from jar label for our tracking purposes. '
5797-008-SA	'HOLD'
5797-012-SA	'HOLD'

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.109		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.191		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.196		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.274		-	0.0680	Total TCDD	ND	0.109	
1,2,3,7,8,9-HxCDD	ND	0.257		-	0.0666	Total PeCDD	ND	0.191	
1,2,3,4,6,7,8-HpCDD	ND	0.347		-	0.0927	Total HxCDD	ND	0.274	
OCDD	ND	0.857		-	0.272	Total HpCDD	ND	0.347	
2,3,7,8-TCDF	ND	0.0893		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.140		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.178		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.111		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.121		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.105		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.165		-	0.0493	Total TCDF	ND	0.0893	
1,2,3,4,6,7,8-HpCDF	ND	0.245		-	0.0404	Total PeCDF	ND	0.178	
1,2,3,4,7,8,9-HpCDF	ND	0.278		-	0.0469	Total HxCDF	ND	0.165	
OCDF	ND	0.452		-	0.177	Total HpCDF	ND	0.278	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.1	40.0 - 135	
13C-1,2,3,7,8-PeCDD	82.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	71.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	70.4	40.0 - 135	
13C-OCDD	62.5	40.0 - 135	
13C-2,3,7,8-TCDF	88.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	76.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	76.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	68.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	68.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	67.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	71.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	60.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	67.8	40.0 - 135	
13C-OCDF	64.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	97.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 11-04-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	8.31	7.00 - 13.0	
1,2,3,7,8-PeCDD	47.3	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	47.1	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	45.4	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	45.6	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	42.9	35.0 - 65.0	
OCDD	85.9	70.0 - 130	
2,3,7,8-TCDF	8.29	7.00 - 13.0	
1,2,3,7,8-PeCDF	43.2	35.0 - 65.0	
2,3,4,7,8-PeCDF	43.2	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	42.2	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	42.6	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	41.4	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	41.3	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	42.3	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	42.5	35.0 - 65.0	
OCDF	79.6	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.4	40.0 - 135	
13C-1,2,3,7,8-PeCDD	87.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	68.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	67.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	68.0	40.0 - 135	
13C-OCDD	53.2	40.0 - 135	
13C-2,3,7,8-TCDF	86.2	40.0 - 135	
13C-1,2,3,7,8-PeCDF	78.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	78.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	67.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	65.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	64.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	70.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	56.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	67.3	40.0 - 135	
13C-OCDF	58.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	94.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 11/5/09

Reviewed By: _____
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-001-SA
Client ID: SB-23 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 4.52 g
% Solids: 80.36

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.134		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.204		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.230		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.316		-	0.0680	Total TCDD	ND	0.134	
1,2,3,7,8,9-HxCDD	ND	0.298		-	0.0666	Total PeCDD	ND	0.204	
1,2,3,4,6,7,8-HpCDD	ND	0.580		-	0.0927	Total HxCDD	ND	0.316	
OCDD	ND	1.77		-	0.272	Total HpCDD	ND	0.580	
2,3,7,8-TCDF	ND	0.106		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.151		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.197		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.141		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.151		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.134		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.205		-	0.0493	Total TCDF	ND	0.106	
1,2,3,4,6,7,8-HpCDF	ND	0.228		-	0.0404	Total PeCDF	ND	0.197	
1,2,3,4,7,8,9-HpCDF	ND	0.247		-	0.0469	Total HxCDF	ND	0.205	
OCDF	ND	0.555		-	0.177	Total HpCDF	ND	0.247	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	77.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	66.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	66.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	61.1	40.0 - 135	
13C-OCDD	49.7	40.0 - 135	
13C-2,3,7,8-TCDF	91.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	77.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	75.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	63.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	63.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	62.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	68.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	49.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	61.7	40.0 - 135	
13C-OCDF	53.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	93.8	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 12/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-002-SA
Client ID: SB-48 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 6.78 g
% Solids: 76.49

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.0131

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0941		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.116		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.146		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.185		-	0.0680	Total TCDD	ND	0.0941	
1,2,3,7,8,9-HxCDD	ND	0.182		-	0.0666	Total PeCDD	ND	0.116	
1,2,3,4,6,7,8-HpCDD	1.09	-	J	0.0109	0.0927	Total HxCDD	ND	0.185	
OCDD	6.37	-	J	0.00191	0.272	Total HpCDD	1.87	-	J
2,3,7,8-TCDF	ND	0.0564		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0822		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.116		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0853		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0923		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0818		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.128		-	0.0493	Total TCDF	ND	0.0564	
1,2,3,4,6,7,8-HpCDF	ND	0.177		-	0.0404	Total PeCDF	ND	0.116	
1,2,3,4,7,8,9-HpCDF	ND	0.216		-	0.0469	Total HxCDF	ND	0.128	
OCDF	0.864	-	J	0.000259	0.177	Total HpCDF	0.492	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	70.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	72.0	40.0 - 135	
13C-OCDD	61.6	40.0 - 135	
13C-2,3,7,8-TCDF	87.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	91.7	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	68.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	68.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	67.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	72.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	69.1	40.0 - 135	
13C-OCDF	63.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.0	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-004-SA
Client ID: SB-49 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 5.02 g
% Solids: 76.15

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.0120

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.196		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.294		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.275		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.375		-	0.0680	Total TCDD	ND	0.196	
1,2,3,7,8,9-HxCDD	ND	0.355		-	0.0666	Total PeCDD	ND	0.294	
1,2,3,4,6,7,8-HpCDD	1.06	-	J	0.0106	0.0927	Total HxCDD	ND	0.375	
OCDD	4.71	-	J	0.00141	0.272	Total HpCDD	2.11	-	J
2,3,7,8-TCDF	ND	0.169		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.202		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.294		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.165		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.177		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.154		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.246		-	0.0493	Total TCDF	ND	0.169	
1,2,3,4,6,7,8-HpCDF	ND	0.280		-	0.0404	Total PeCDF	ND	0.294	
1,2,3,4,7,8,9-HpCDF	ND	0.346		-	0.0469	Total HxCDF	ND	0.246	
OCDF	ND	0.687		-	0.177	Total HpCDF	ND	0.346	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	85.1	40.0 - 135	
13C-1,2,3,7,8-PeCDD	80.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	73.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	75.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.8	40.0 - 135	
13C-OCDD	68.8	40.0 - 135	
13C-2,3,7,8-TCDF	85.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	83.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	74.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	72.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	65.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	71.7	40.0 - 135	
13C-OCDF	70.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	89.9	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-005-SA
Client ID: SB-50 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 4.79 g
% Solids: 80.00

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.00732

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.125		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.180		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.186		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.255		-	0.0680	Total TCDD	ND	0.125	
1,2,3,7,8,9-HxCDD	ND	0.241		-	0.0666	Total PeCDD	ND	0.180	
1,2,3,4,6,7,8-HpCDD	0.649	-	J	0.00649	0.0927	Total HxCDD	ND	0.255	
OCDD	2.78	-	J	0.000834	0.272	Total HpCDD	1.37	-	J
2,3,7,8-TCDF	ND	0.159		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.124		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.165		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.130		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.135		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.121		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.195		-	0.0493	Total TCDF	ND	0.159	
1,2,3,4,6,7,8-HpCDF	ND	0.207		-	0.0404	Total PeCDF	ND	0.165	
1,2,3,4,7,8,9-HpCDF	ND	0.253		-	0.0469	Total HxCDF	ND	0.195	
OCDF	ND	0.391		-	0.177	Total HpCDF	ND	0.253	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	94.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	76.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.4	40.0 - 135	
13C-OCDD	62.4	40.0 - 135	
13C-2,3,7,8-TCDF	94.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	73.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	72.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	72.0	40.0 - 135	
13C-OCDF	65.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	106	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-006-SA
Client ID: SB-25 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 4.24 g
% Solids: 72.21

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.000777

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.128		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.173		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.180		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.247		-	0.0680	Total TCDD	ND	0.128	
1,2,3,7,8,9-HxCDD	ND	0.233		-	0.0666	Total PeCDD	ND	0.173	
1,2,3,4,6,7,8-HpCDD	ND	0.575		-	0.0927	Total HxCDD	ND	0.247	
OCDD	2.59	-	J	0.000777	0.272	Total HpCDD	ND	0.575	
2,3,7,8-TCDF	ND	0.0953		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.126		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.176		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.115		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.122		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.104		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.179		-	0.0493	Total TCDF	ND	0.0953	
1,2,3,4,6,7,8-HpCDF	ND	0.169		-	0.0404	Total PeCDF	ND	0.176	
1,2,3,4,7,8,9-HpCDF	ND	0.199		-	0.0469	Total HxCDF	ND	0.179	
OCDF	ND	0.410		-	0.177	Total HpCDF	ND	0.199	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	81.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	83.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	64.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	65.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.5	40.0 - 135	
13C-OCDD	58.4	40.0 - 135	
13C-2,3,7,8-TCDF	81.4	40.0 - 135	
13C-1,2,3,7,8-PeCDF	84.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	76.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	63.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	62.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	62.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	64.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	57.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	63.6	40.0 - 135	
13C-OCDF	60.2	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	81.5	50.0 - 150

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-007-SA
Client ID: SB-24 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 5.29 g
% Solids: 78.22

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.292

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.128		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.178		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.142		-	0.0496				
1,2,3,6,7,8-HxCDD	0.672	-	J	0.0672	0.0680	Total TCDD	ND	0.128	
1,2,3,7,8,9-HxCDD	0.427	-	J	0.0427	0.0666	Total PeCDD	ND	0.178	
1,2,3,4,6,7,8-HpCDD	11.8	-		0.118	0.0927	Total HxCDD	2.75	-	J
OCDD	78.9	-		0.0237	0.272	Total HpCDD	19.3	-	
2,3,7,8-TCDF	ND	0.163		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.120		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.160		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.202		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.212		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.183		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.294		-	0.0493	Total TCDF	ND	0.163	
1,2,3,4,6,7,8-HpCDF	3.60	-	J	0.0360	0.0404	Total PeCDF	1.61	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.275		-	0.0469	Total HxCDF	3.24	-	J
OCDF	15.2	-		0.00456	0.177	Total HpCDF	12.3	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	75.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	74.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	79.7	40.0 - 135	
13C-OCDD	72.0	40.0 - 135	
13C-2,3,7,8-TCDF	89.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	73.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	71.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	67.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	76.7	40.0 - 135	
13C-OCDF	74.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.6	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-009-SA
Client ID: SB-12 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 5.24 g
% Solids: 78.27

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.000540

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.114		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.175		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.181		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.244		-	0.0680	Total TCDD	ND	0.114	
1,2,3,7,8,9-HxCDD	ND	0.232		-	0.0666	Total PeCDD	ND	0.175	
1,2,3,4,6,7,8-HpCDD	ND	0.452		-	0.0927	Total HxCDD	ND	0.244	
OCDD	1.80	-	J	0.000540	0.272	Total HpCDD	ND	0.452	
2,3,7,8-TCDF	ND	0.0785		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.129		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.155		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.111		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.119		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.102		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.168		-	0.0493	Total TCDF	ND	0.0785	
1,2,3,4,6,7,8-HpCDF	ND	0.136		-	0.0404	Total PeCDF	ND	0.155	
1,2,3,4,7,8,9-HpCDF	ND	0.162		-	0.0469	Total HxCDF	ND	0.168	
OCDF	ND	0.345		-	0.177	Total HpCDF	ND	0.162	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	81.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	69.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	70.0	40.0 - 135	
13C-OCDD	62.1	40.0 - 135	
13C-2,3,7,8-TCDF	86.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	77.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	76.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	66.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	65.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	66.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	71.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	59.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	66.8	40.0 - 135	
13C-OCDF	65.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	96.0	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-010-SA
Client ID: SB-47 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 5.70 g
% Solids: 76.88

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-05-2009
2005 WHO TEQ: 0.00966

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0842		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.132		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.188		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.259		-	0.0680	Total TCDD	ND	0.0842	
1,2,3,7,8,9-HxCDD	ND	0.245		-	0.0666	Total PeCDD	ND	0.132	
1,2,3,4,6,7,8-HpCDD	0.806	-	J	0.00806	0.0927	Total HxCDD	ND	0.259	
OCDD	5.34	-	J	0.00160	0.272	Total HpCDD	1.79	-	J
2,3,7,8-TCDF	ND	0.136		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0897		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.114		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0823		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0853		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0748		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.118		-	0.0493	Total TCDF	ND	0.136	
1,2,3,4,6,7,8-HpCDF	ND	0.226		-	0.0404	Total PeCDF	0.368	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.272		-	0.0469	Total HxCDF	0.282	-	J
OCDF	ND	0.323		-	0.177	Total HpCDF	ND	0.272	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	75.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	80.2	40.0 - 135	
13C-OCDD	68.6	40.0 - 135	
13C-2,3,7,8-TCDF	94.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	94.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	94.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	74.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	73.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	74.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	77.7	40.0 - 135	
13C-OCDF	73.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	106	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5797-011-SA
Client ID: SB-1 @ 1 ft
Matrix: Soil
Batch No: X1873

Date Extracted: 11-03-2009
Date Received: 10-22-2009
Amount: 5.37 g
% Solids: 80.08

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-05-2009
2005 WHO TEQ: 0.132

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.103		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.160		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.127		-	0.0496				
1,2,3,6,7,8-HxCDD	0.400	-	J	0.0400	0.0680	Total TCDD	ND	0.103	
1,2,3,7,8,9-HxCDD	0.377	-	J	0.0377	0.0666	Total PeCDD	ND	0.160	
1,2,3,4,6,7,8-HpCDD	3.77	-	J	0.0377	0.0927	Total HxCDD	2.03	-	J
OCDD	29.8	-		0.00894	0.272	Total HpCDD	7.29	-	
2,3,7,8-TCDF	ND	0.111		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0931		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.122		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.122		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.133		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.114		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.182		-	0.0493	Total TCDF	ND	0.111	
1,2,3,4,6,7,8-HpCDF	0.765	-	J	0.00765	0.0404	Total PeCDF	0.372	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.139		-	0.0469	Total HxCDF	0.896	-	J
OCDF	1.26	-	J	0.000378	0.177	Total HpCDF	1.78	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	99.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	68.2	40.0 - 135	
13C-OCDD	57.0	40.0 - 135	
13C-2,3,7,8-TCDF	93.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	90.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	66.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	65.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	65.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	73.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	56.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	69.5	40.0 - 135	
13C-OCDF	60.7	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.5	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: [signature]
Date: 11/5/09

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El Dorado Hills, CA 95762
Tel: 916-934-0900
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FAL USE ONLY
Laboratory Project No.: 5797
Temperature: 0° °C

Chain of Custody

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1693
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-23 @ 1 ft	10-20-09	1451	S	1		X									D/F
2	-48 1		1508				↓									
3	↓ 5		1512				HOLD									15:11
4	-49 1		1533				X									
5	-50 1		1600													
6	-25 1		1609													
7	-24 1		1620				↓									
8	↓ 5		1626				HOLD									
9	-12 1		1645				X									
10	-47 1		1501				↓									
11	-1 1	10-21-09	0856				↓									
12	-11 ↓ 1 ↓	↓	0905	↓	↓		HOLD									↓
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSD	10-21-09	1730	Kelly Zipp KZ IPP	10-22-09	11:45

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5797**

Client:	Calscience
Client Project ID:	09-10-1693
Date Received:	10/22/2009
Time Received:	11:45 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	12
Duplicates:	0
Storage Location:	R1

Method of Delivery:	Other
Tracking Number:	512874567
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/19/2009
Adequate Sample Volume	Yes

Anomalies or additional comments:

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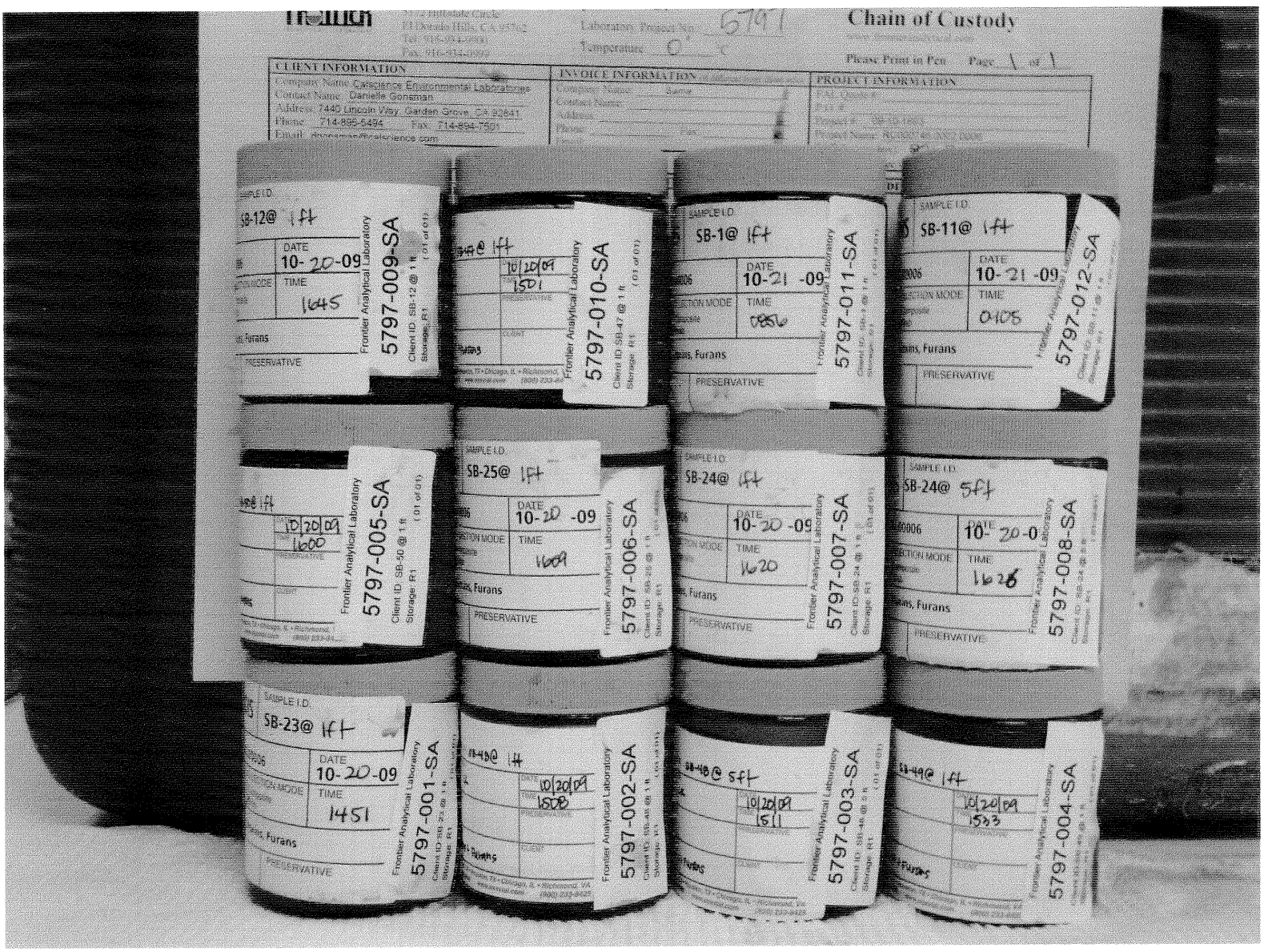
FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name: PC0007446.0002.00006

Project Location: PG&E Radback, Oakley

Laboratory: Cal Science

Project Manager: Kathy Brandt

Sampler(s)/Affiliation: LK - ARCADIS

09-10-1693

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	Low level VOCs (USEPA 8260B/5035)	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorous Pesticides (USEPA 8141/614)	PP Metals (USEPA 6010B/7470/7471)	Dioxins & Furans (USEPA 8290)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Remarks	Total
SB-23@ 1ft	S	10/20/09 1451	1	X	X	X		X	X	X	X	X			6
~~SB-47@ 1ft HOLD~~		~~(10/20/09) 1501~~				X						X			~~6~~
SB-48@ 1ft		1508	2		X	HOLD	X	X	X	X	X	HOLD			6
SB-48@ 5ft		1512	3		X	HOLD		X	X	X	HOLD	HOLD			6
SB-49 @ 1ft		1533	4		X	HOLD		X	X	X	X	HOLD			6
SB-50 @ 1ft		1600	5		X	HOLD		X	X	X	X	HOLD			6
SB-25 @ 1ft		1609	6	X	X	X		X	X	X	X	X			6
SB-24 @ 1ft		1620	7	X	X	X		X	X	X	X	X			6
SB-24 @ 5ft		1626	8	X	X	X		X	X	X	HOLD	X			6
SB-10 @ 5ft		1641	9	X	X	X	X	X	X	X		X			6
SB-12 @ 1ft		1645	10	X		X		X	X	X	X	X			6
SB-47@ 1ft	S	10/20/09 1501	11		X	HOLD	X	X	X	X	X	HOLD		~~TEL analysis (DHS LUFT~~ LK 10/20/09	6
SB-1 @ 1ft	S	10/21/09 0856	12			X		X	X		X				6
SB-11 @ 1ft	S	10/21/09 0905	13		X	X		X	X	X	HOLD	X	X		

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 72

Relinquished by: [signature]	Organization: ARCADIS	Date 10/21/09	Time 1030	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/21/09	Time 1030	Yes No N/A	
Relinquished by: [signature] TO GSO	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1015	Yes No N/A	

Special Instructions/Remarks:

GSO 912875729,30

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No: _____
Temperature: _____ °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1693
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☑ I/II ☐ III ☐ IV	☐ Hardcopy	
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☑ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)	**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other	Remarks
1	SB-23 @ 1 ft	10-20-09	1451	S	1		X											D/F
2	-48 1		1508				1											
3	1 5		1512				HOLD											
4	-49 1		1533				X											
5	-50 1		1600															
6	-25 1		1609															
7	-24 1		1620				1											
8	1 5		1626				HOLD											
9	-12 1		1645				X											
10	-47 1		1501				1											
11	-1 1	10-21-09	0856				1											
12	-11 1 1	1	0905	1	1		HOLD											1
13																		
14																		
15																		

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSD	10-21-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1693

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.1 °C - 0.2 °C (CF) = 1.9 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** DL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ #9 ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® 3 ☑ 60ml PB

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** DL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** WSC

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** DL

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1693

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.2 °C (CF) = 2.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** D.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** D.L

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** W.S.C

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** D.L

Calscience Environmental Laboratories, Inc.

November 04, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1694**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-A**	**10/21/09 09:15**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:36**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:21:23 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.89	0.750	1		Nickel	14.0	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.2	0.250	1		Thallium	ND	0.750	1	
Copper	5.63	0.500	1		Zinc	22.8	1.00	1	
Lead	8.31	0.500	1						

SB-20@1ft	**09-10-1694-3-A**	**10/21/09 09:27**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:39**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:23:39 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.90	0.750	1		Nickel	16.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.7	0.250	1		Thallium	ND	0.750	1	
Copper	6.75	0.500	1		Zinc	20.4	1.00	1	
Lead	3.58	0.500	1						

SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:41**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:25:55 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.11	0.750	1		Nickel	17.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.3	0.250	1		Thallium	ND	0.750	1	
Copper	13.4	0.500	1		Zinc	23.4	1.00	1	
Lead	5.21	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:42**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:28:11 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.96	0.750	1		Nickel	19.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	16.1	0.250	1		Thallium	ND	0.750	1	
Copper	11.7	0.500	1		Zinc	30.8	1.00	1	
Lead	4.61	0.500	1						

SB-59@1ft	**09-10-1694-6-A**	**10/21/09 10:13**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:43**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:34:58 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.75	0.750	1		Nickel	27.4	0.250	1	
Beryllium	0.260	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	18.7	0.250	1		Thallium	ND	0.750	1	
Copper	11.2	0.500	1		Zinc	34.7	1.00	1	
Lead	4.80	0.500	1						

SB-59@5ft	**09-10-1694-7-A**	**10/21/09 10:20**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:47**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:37:16 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.97	0.750	1		Nickel	21.7	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	17.1	0.250	1		Thallium	ND	0.750	1	
Copper	6.73	0.500	1		Zinc	20.1	1.00	1	
Lead	2.69	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-58@1ft	**09-10-1694-8-A**	**10/21/09 10:53**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:48**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:39:28 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.92	0.750	1		Nickel	13.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.0	0.250	1		Thallium	ND	0.750	1	
Copper	20.5	0.500	1		Zinc	34.7	1.00	1	
Lead	14.0	0.500	1						

SB-17@1ft	**09-10-1694-9-A**	**10/21/09 11:00**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:49**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 12:41:38 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.42	0.750	1		Nickel	22.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	19.6	0.250	1		Thallium	ND	0.750	1	
Copper	9.20	0.500	1		Zinc	32.5	1.00	1	
Lead	4.40	0.500	1						

SB-54@1ft	**09-10-1694-10-A**	**10/21/09 11:12**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:50**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 12:43:48 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.38	0.750	1		Nickel	12.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.6	0.250	1		Thallium	ND	0.750	1	
Copper	16.7	0.500	1		Zinc	25.7	1.00	1	
Lead	4.83	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@1ft	**09-10-1694-11-A**	**10/21/09 11:19**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:52**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 12:45:59 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.08	0.750	1		Nickel	17.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.9	0.250	1		Thallium	ND	0.750	1	
Copper	7.94	0.500	1		Zinc	25.0	1.00	1	
Lead	5.78	0.500	1						

SB-15@5ft	**09-10-1694-12-A**	**10/21/09 11:25**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:53**	**091023L05**

Comment(s): -Mercury was analyzed on 10/26/2009 12:48:11 PM with batch 091026L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.72	0.750	1		Nickel	18.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	17.3	0.250	1		Thallium	ND	0.750	1	
Copper	8.11	0.500	1		Zinc	23.9	1.00	1	
Lead	3.01	0.500	1						

Method Blank	**099-04-007-6,617**	**N/A**	**Solid**	**Mercury**	**10/26/09**	**10/26/09 11:41**	**091026L01**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,866**	**N/A**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:42**	**091023L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-12,867**	**N/A**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:40**	**091023L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 20:49**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 21:06**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@1ft	**09-10-1694-6-A**	**10/21/09 10:13**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 21:22**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@5ft	**09-10-1694-7-A**	**10/21/09 10:20**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 21:38**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17@1ft	**09-10-1694-9-A**	**10/21/09 11:00**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 21:54**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

SB-15@1ft	**09-10-1694-11-A**	**10/21/09 11:19**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 22:11**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	61-145	

SB-15@5ft	**09-10-1694-12-A**	**10/21/09 11:25**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 22:27**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	61-145	

Method Blank	**099-12-025-883**	**N/A**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 16:31**	**091023B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-A**	**10/21/09 09:15**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/28/09 22:13**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	0.015	0.020	0.0033	1	J
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	0.0066	0.020	0.0026	1	J
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	0.0068	0.020	0.0047	1	J
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	0.0056	0.020	0.0045	1	J
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	0.0073	0.020	0.0014	1	J
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	0.0054	0.020	0.0020	1	J
Phenanthrene	0.0062	0.020	0.0038	1	J	Indeno (1,2,3-c,d) Pyrene	0.0049	0.020	0.0035	1	J
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	0.017	0.020	0.0019	1	J	Benzo (g,h,i) Perylene	0.0044	0.020	0.0033	1	J

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	110	14-146		Nitrobenzene-d5	105	18-162	
p-Terphenyl-d14	75	34-148					

SB-20@1ft	**09-10-1694-3-A**	**10/21/09 09:27**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/28/09 22:36**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	218	14-146	2	Nitrobenzene-d5	130	18-162	
p-Terphenyl-d14	77	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Project: PG&E Radback, Oakley

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C SIM PAHs
Units:	mg/kg
	Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/28/09 22:58**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	0.0026	0.020	0.0026	1	J
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	97	14-146		Nitrobenzene-d5	100	18-162	
p-Terphenyl-d14	75	34-148					

SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/28/09 23:20**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	147	14-146		Nitrobenzene-d5	97	18-162	
p-Terphenyl-d14	95	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-386**	**N/A**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09 13:06**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	102	14-146		Nitrobenzene-d5	97	18-162	
p-Terphenyl-d14	105	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-A**	**10/21/09 09:15**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 15:16**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	42-120		Phenol-d6	82	46-118	
Nitrobenzene-d5	79	42-150		2-Fluorobiphenyl	76	38-134	
2,4,6-Tribromophenol	76	36-132		p-Terphenyl-d14	85	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20@1ft	**09-10-1694-3-A**	**10/21/09 09:27**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 15:46**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	85	42-120		Phenol-d6	89	46-118	
Nitrobenzene-d5	85	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	83	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 16:16**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	86	42-120		Phenol-d6	91	46-118	
Nitrobenzene-d5	86	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	84	36-132		p-Terphenyl-d14	92	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 16:46**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	70	42-120		Phenol-d6	73	46-118	
Nitrobenzene-d5	71	42-150		2-Fluorobiphenyl	70	38-134	
2,4,6-Tribromophenol	62	36-132		p-Terphenyl-d14	76	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-972**	**N/A**	**Solid**	**GC/MS TT**	**10/24/09**	**10/27/09 12:12**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	85	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	78	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@1ft	**09-10-1694-6-A**	**10/21/09 10:13**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 17:16**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	42-120		Phenol-d6	82	46-118	
Nitrobenzene-d5	83	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	73	36-132		p-Terphenyl-d14	89	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@5ft	**09-10-1694-7-A**	**10/21/09 10:20**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 17:46**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	84	46-118	
Nitrobenzene-d5	80	42-150		2-Fluorobiphenyl	77	38-134	
2,4,6-Tribromophenol	76	36-132		p-Terphenyl-d14	85	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17@1ft	**09-10-1694-9-A**	**10/21/09 11:00**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 18:16**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	42-120		Phenol-d6	82	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	78	38-134	
2,4,6-Tribromophenol	76	36-132		p-Terphenyl-d14	87	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@1ft	**09-10-1694-11-A**	**10/21/09 11:19**	**Solid**	**GC/MS TT**	**10/24/09**	**10/29/09 13:30**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	0.12	0.50	0.060	1	J
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	45	42-120		Phenol-d6	47	46-118	
Nitrobenzene-d5	46	42-150		2-Fluorobiphenyl	49	38-134	
2,4,6-Tribromophenol	37	36-132		p-Terphenyl-d14	45	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@5ft	**09-10-1694-12-A**	**10/21/09 11:25**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 19:17**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	42-120		Phenol-d6	83	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	79	36-132		p-Terphenyl-d14	91	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-972**	**N/A**	**Solid**	**GC/MS TT**	**10/24/09**	**10/27/09 12:12**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	85	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	78	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-A**	**10/21/09 09:15**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 12:40**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.4	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	50-135		2,4,5,6-Tetrachloro-m-Xylene	77	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-2@1ft	**09-10-1694-2-A**	**10/21/09 09:20**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 13:07**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	1.4	5.0	1.1	1	J	Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20@1ft	**09-10-1694-3-A**	**10/21/09 09:27**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 13:34**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	76	50-135		2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 14:01**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	13	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 14:29**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	3.4	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	77	50-135		2,4,5,6-Tetrachloro-m-Xylene	73	50-135	

SB-59@1ft	**09-10-1694-6-A**	**10/21/09 10:13**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 00:01**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	3.5	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	77	50-135		2,4,5,6-Tetrachloro-m-Xylene	71	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@5ft	**09-10-1694-7-A**	**10/21/09 10:20**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 00:28**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	50-135		2,4,5,6-Tetrachloro-m-Xylene	63	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-58@1ft	**09-10-1694-8-A**	**10/21/09 10:53**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 00:55**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	14	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	35	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	71	50-135		2,4,5,6-Tetrachloro-m-Xylene	70	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17@1ft	**09-10-1694-9-A**	**10/21/09 11:00**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 01:22**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	3.1	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	67	50-135		2,4,5,6-Tetrachloro-m-Xylene	68	50-135	

SB-54@1ft	**09-10-1694-10-A**	**10/21/09 11:12**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 01:49**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	73	50-135		2,4,5,6-Tetrachloro-m-Xylene	71	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@1ft	**09-10-1694-11-A**	**10/21/09 11:19**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 02:16**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	74	50-135		2,4,5,6-Tetrachloro-m-Xylene	70	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@5ft	**09-10-1694-12-A**	**10/21/09 11:25**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 02:44**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	73	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-755**	**N/A**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 12:13**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	74	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-A**	**10/21/09 09:15**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 07:17**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	111	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

SB-20@1ft	**09-10-1694-3-A**	**10/21/09 09:27**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 07:36**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	34	50	10	1	J
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 07:55**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	111	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 08:15**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	50-130		2,4,5,6-Tetrachloro-m-Xylene	81	50-130	

SB-59@1ft	**09-10-1694-6-A**	**10/21/09 10:13**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 08:34**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	50-130		2,4,5,6-Tetrachloro-m-Xylene	76	50-130	

SB-59@5ft	**09-10-1694-7-A**	**10/21/09 10:20**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 08:53**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	20	50	10	1	J
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-130		2,4,5,6-Tetrachloro-m-Xylene	69	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-58@1ft	**09-10-1694-8-A**	**10/21/09 10:53**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 09:12**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-130		2,4,5,6-Tetrachloro-m-Xylene	79	50-130	

SB-17@1ft	**09-10-1694-9-A**	**10/21/09 11:00**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 09:31**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	50-130		2,4,5,6-Tetrachloro-m-Xylene	75	50-130	

SB-54@1ft	**09-10-1694-10-A**	**10/21/09 11:12**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 12:04**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	50	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	50-130		2,4,5,6-Tetrachloro-m-Xylene	78	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@1ft	**09-10-1694-11-A**	**10/21/09 11:19**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 12:23**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	50-130		2,4,5,6-Tetrachloro-m-Xylene	78	50-130	

Method Blank	**099-12-535-804**	**N/A**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 16:02**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-130		2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-A**	**10/21/09 09:15**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 15:36**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	78	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-2@1ft	**09-10-1694-2-A**	**10/21/09 09:20**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 16:21**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	80	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20@1ft	**09-10-1694-3-A**	**10/21/09 09:27**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 17:07**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	81	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7@1ft	**09-10-1694-4-A**	**10/21/09 10:07**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 17:53**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	92	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-A**	**10/21/09 10:45**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 18:39**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	59	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@1ft	**09-10-1694-6-A**	**10/21/09 10:13**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 19:24**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	82	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@5ft	**09-10-1694-7-A**	**10/21/09 10:20**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 20:10**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	55	30-130	

SB-58@1ft	**09-10-1694-8-A**	**10/21/09 10:53**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 20:56**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	87	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8141B
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17@1ft	**09-10-1694-9-A**	**10/21/09 11:00**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 21:41**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	80	30-130	

SB-54@1ft	**09-10-1694-10-A**	**10/21/09 11:12**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 22:27**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	100	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@1ft	**09-10-1694-11-A**	**10/21/09 11:19**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 00:44**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	84	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@5ft	**09-10-1694-12-A**	**10/21/09 11:25**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 01:30**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	99	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-465-13**	**N/A**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 13:18**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	57	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-3@1ft	**09-10-1694-1-D**	**10/21/09 09:15**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 14:50**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	92	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	118	58-160	
1,4-Bromofluorobenzene	96	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-2@1ft	**09-10-1694-2-D**	**10/21/09 09:20**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 15:20**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	88	49	0.973		c-1,3-Dichloropropene	ND	0.97	0.973	
Benzene	ND	0.97	0.973		t-1,3-Dichloropropene	ND	1.9	0.973	
Bromobenzene	ND	0.97	0.973		Ethylbenzene	ND	0.97	0.973	
Bromochloromethane	ND	1.9	0.973		2-Hexanone	ND	19	0.973	
Bromodichloromethane	ND	0.97	0.973		Isopropylbenzene	ND	0.97	0.973	
Bromoform	ND	4.9	0.973		p-Isopropyltoluene	ND	0.97	0.973	
Bromomethane	ND	19	0.973		Methylene Chloride	ND	9.7	0.973	
2-Butanone	ND	19	0.973		4-Methyl-2-Pentanone	ND	19	0.973	
n-Butylbenzene	ND	0.97	0.973		Naphthalene	ND	9.7	0.973	
sec-Butylbenzene	ND	0.97	0.973		n-Propylbenzene	ND	1.9	0.973	
tert-Butylbenzene	ND	0.97	0.973		Styrene	ND	0.97	0.973	
Carbon Disulfide	ND	9.7	0.973		1,1,1,2-Tetrachloroethane	ND	0.97	0.973	
Carbon Tetrachloride	ND	0.97	0.973		1,1,2,2-Tetrachloroethane	ND	1.9	0.973	
Chlorobenzene	ND	0.97	0.973		Tetrachloroethene	ND	0.97	0.973	
Chloroethane	ND	1.9	0.973		Toluene	ND	0.97	0.973	
Chloroform	ND	0.97	0.973		1,2,3-Trichlorobenzene	ND	1.9	0.973	
Chloromethane	ND	19	0.973		1,2,4-Trichlorobenzene	ND	1.9	0.973	
2-Chlorotoluene	ND	0.97	0.973		1,1,1-Trichloroethane	ND	0.97	0.973	
4-Chlorotoluene	ND	0.97	0.973		1,1,2-Trichloroethane	ND	0.97	0.973	
Dibromochloromethane	ND	1.9	0.973		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.973	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.973		Trichloroethene	ND	1.9	0.973	
1,2-Dibromoethane	ND	0.97	0.973		Trichlorofluoromethane	ND	9.7	0.973	
Dibromomethane	ND	0.97	0.973		1,2,3-Trichloropropane	ND	1.9	0.973	
1,2-Dichlorobenzene	ND	0.97	0.973		1,2,4-Trimethylbenzene	ND	1.9	0.973	
1,3-Dichlorobenzene	ND	0.97	0.973		1,3,5-Trimethylbenzene	ND	1.9	0.973	
1,4-Dichlorobenzene	ND	0.97	0.973		Vinyl Acetate	ND	9.7	0.973	
Dichlorodifluoromethane	ND	1.9	0.973		Vinyl Chloride	ND	0.97	0.973	
1,1-Dichloroethane	ND	0.97	0.973		p/m-Xylene	ND	1.9	0.973	
1,2-Dichloroethane	ND	0.97	0.973		o-Xylene	ND	0.97	0.973	
1,1-Dichloroethene	ND	0.97	0.973		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.973	
c-1,2-Dichloroethene	ND	0.97	0.973		Tert-Butyl Alcohol (TBA)	ND	19	0.973	
t-1,2-Dichloroethene	ND	0.97	0.973		Diisopropyl Ether (DIPE)	ND	0.97	0.973	
1,2-Dichloropropane	ND	0.97	0.973		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.973	
1,3-Dichloropropane	ND	0.97	0.973		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.973	
2,2-Dichloropropane	ND	4.9	0.973		Ethanol	ND	490	0.973	
1,1-Dichloropropene	ND	1.9	0.973						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	119	58-160	
1,4-Bromofluorobenzene	95	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20@1ft	**09-10-1694-3-D**	**10/21/09 09:27**	**Solid**	**GC/MS XX**	**10/15/09**	**10/27/09 16:51**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	120	48	0.969		c-1,3-Dichloropropene	ND	0.97	0.969	
Benzene	ND	0.97	0.969		t-1,3-Dichloropropene	ND	1.9	0.969	
Bromobenzene	ND	0.97	0.969		Ethylbenzene	ND	0.97	0.969	
Bromochloromethane	ND	1.9	0.969		2-Hexanone	ND	19	0.969	
Bromodichloromethane	ND	0.97	0.969		Isopropylbenzene	ND	0.97	0.969	
Bromoform	ND	4.8	0.969		p-Isopropyltoluene	ND	0.97	0.969	
Bromomethane	ND	19	0.969		Methylene Chloride	ND	9.7	0.969	
2-Butanone	ND	19	0.969		4-Methyl-2-Pentanone	ND	19	0.969	
n-Butylbenzene	ND	0.97	0.969		Naphthalene	ND	9.7	0.969	
sec-Butylbenzene	ND	0.97	0.969		n-Propylbenzene	ND	1.9	0.969	
tert-Butylbenzene	ND	0.97	0.969		Styrene	ND	0.97	0.969	
Carbon Disulfide	ND	9.7	0.969		1,1,1,2-Tetrachloroethane	ND	0.97	0.969	
Carbon Tetrachloride	ND	0.97	0.969		1,1,2,2-Tetrachloroethane	ND	1.9	0.969	
Chlorobenzene	ND	0.97	0.969		Tetrachloroethene	ND	0.97	0.969	
Chloroethane	ND	1.9	0.969		Toluene	ND	0.97	0.969	
Chloroform	ND	0.97	0.969		1,2,3-Trichlorobenzene	ND	1.9	0.969	
Chloromethane	ND	19	0.969		1,2,4-Trichlorobenzene	ND	1.9	0.969	
2-Chlorotoluene	ND	0.97	0.969		1,1,1-Trichloroethane	ND	0.97	0.969	
4-Chlorotoluene	ND	0.97	0.969		1,1,2-Trichloroethane	ND	0.97	0.969	
Dibromochloromethane	ND	1.9	0.969		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.969	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.969		Trichloroethene	ND	1.9	0.969	
1,2-Dibromoethane	ND	0.97	0.969		Trichlorofluoromethane	ND	9.7	0.969	
Dibromomethane	ND	0.97	0.969		1,2,3-Trichloropropane	ND	1.9	0.969	
1,2-Dichlorobenzene	ND	0.97	0.969		1,2,4-Trimethylbenzene	ND	1.9	0.969	
1,3-Dichlorobenzene	ND	0.97	0.969		1,3,5-Trimethylbenzene	ND	1.9	0.969	
1,4-Dichlorobenzene	ND	0.97	0.969		Vinyl Acetate	ND	9.7	0.969	
Dichlorodifluoromethane	ND	1.9	0.969		Vinyl Chloride	ND	0.97	0.969	
1,1-Dichloroethane	ND	0.97	0.969		p/m-Xylene	ND	1.9	0.969	
1,2-Dichloroethane	ND	0.97	0.969		o-Xylene	ND	0.97	0.969	
1,1-Dichloroethene	ND	0.97	0.969		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.969	
c-1,2-Dichloroethene	ND	0.97	0.969		Tert-Butyl Alcohol (TBA)	ND	19	0.969	
t-1,2-Dichloroethene	ND	0.97	0.969		Diisopropyl Ether (DIPE)	ND	0.97	0.969	
1,2-Dichloropropane	ND	0.97	0.969		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.969	
1,3-Dichloropropane	ND	0.97	0.969		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.969	
2,2-Dichloropropane	ND	4.8	0.969		Ethanol	ND	480	0.969	
1,1-Dichloropropene	ND	1.9	0.969						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	71-137		1,2-Dichloroethane-d4	117	58-160	
1,4-Bromofluorobenzene	96	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7@1ft	**09-10-1694-4-D**	**10/21/09 10:07**	**Solid**	**GC/MS XX**	**10/15/09**	**10/27/09 17:21**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	97	45	0.901		c-1,3-Dichloropropene	ND	0.90	0.901	
Benzene	ND	0.90	0.901		t-1,3-Dichloropropene	ND	1.8	0.901	
Bromobenzene	ND	0.90	0.901		Ethylbenzene	ND	0.90	0.901	
Bromochloromethane	ND	1.8	0.901		2-Hexanone	ND	18	0.901	
Bromodichloromethane	ND	0.90	0.901		Isopropylbenzene	ND	0.90	0.901	
Bromoform	ND	4.5	0.901		p-Isopropyltoluene	ND	0.90	0.901	
Bromomethane	ND	18	0.901		Methylene Chloride	ND	9.0	0.901	
2-Butanone	ND	18	0.901		4-Methyl-2-Pentanone	ND	18	0.901	
n-Butylbenzene	ND	0.90	0.901		Naphthalene	ND	9.0	0.901	
sec-Butylbenzene	ND	0.90	0.901		n-Propylbenzene	ND	1.8	0.901	
tert-Butylbenzene	ND	0.90	0.901		Styrene	ND	0.90	0.901	
Carbon Disulfide	ND	9.0	0.901		1,1,1,2-Tetrachloroethane	ND	0.90	0.901	
Carbon Tetrachloride	ND	0.90	0.901		1,1,2,2-Tetrachloroethane	ND	1.8	0.901	
Chlorobenzene	ND	0.90	0.901		Tetrachloroethene	ND	0.90	0.901	
Chloroethane	ND	1.8	0.901		Toluene	ND	0.90	0.901	
Chloroform	ND	0.90	0.901		1,2,3-Trichlorobenzene	ND	1.8	0.901	
Chloromethane	ND	18	0.901		1,2,4-Trichlorobenzene	ND	1.8	0.901	
2-Chlorotoluene	ND	0.90	0.901		1,1,1-Trichloroethane	ND	0.90	0.901	
4-Chlorotoluene	ND	0.90	0.901		1,1,2-Trichloroethane	ND	0.90	0.901	
Dibromochloromethane	ND	1.8	0.901		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.0	0.901	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.901		Trichloroethene	ND	1.8	0.901	
1,2-Dibromoethane	ND	0.90	0.901		Trichlorofluoromethane	ND	9.0	0.901	
Dibromomethane	ND	0.90	0.901		1,2,3-Trichloropropane	ND	1.8	0.901	
1,2-Dichlorobenzene	ND	0.90	0.901		1,2,4-Trimethylbenzene	ND	1.8	0.901	
1,3-Dichlorobenzene	ND	0.90	0.901		1,3,5-Trimethylbenzene	ND	1.8	0.901	
1,4-Dichlorobenzene	ND	0.90	0.901		Vinyl Acetate	ND	9.0	0.901	
Dichlorodifluoromethane	ND	1.8	0.901		Vinyl Chloride	ND	0.90	0.901	
1,1-Dichloroethane	ND	0.90	0.901		p/m-Xylene	ND	1.8	0.901	
1,2-Dichloroethane	ND	0.90	0.901		o-Xylene	ND	0.90	0.901	
1,1-Dichloroethene	ND	0.90	0.901		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.901	
c-1,2-Dichloroethene	ND	0.90	0.901		Tert-Butyl Alcohol (TBA)	ND	18	0.901	
t-1,2-Dichloroethene	ND	0.90	0.901		Diisopropyl Ether (DIPE)	ND	0.90	0.901	
1,2-Dichloropropane	ND	0.90	0.901		Ethyl-t-Butyl Ether (ETBE)	ND	0.90	0.901	
1,3-Dichloropropane	ND	0.90	0.901		Tert-Amyl-Methyl Ether (TAME)	ND	0.90	0.901	
2,2-Dichloropropane	ND	4.5	0.901		Ethanol	ND	450	0.901	
1,1-Dichloropropene	ND	1.8	0.901						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	116	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8@1ft	**09-10-1694-5-D**	**10/21/09 10:45**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 17:51**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	99	41	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Benzene	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromobenzene	ND	0.83	0.826		Ethylbenzene	ND	0.83	0.826	
Bromochloromethane	ND	1.7	0.826		2-Hexanone	ND	17	0.826	
Bromodichloromethane	ND	0.83	0.826		Isopropylbenzene	ND	0.83	0.826	
Bromoform	ND	4.1	0.826		p-Isopropyltoluene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		Methylene Chloride	ND	8.3	0.826	
2-Butanone	ND	17	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
n-Butylbenzene	ND	0.83	0.826		Naphthalene	ND	8.3	0.826	
sec-Butylbenzene	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
tert-Butylbenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Carbon Disulfide	ND	8.3	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Carbon Tetrachloride	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Tetrachloroethene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		Toluene	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Chloromethane	ND	17	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
2-Chlorotoluene	ND	0.83	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromochloromethane	ND	1.7	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		Trichloroethene	ND	1.7	0.826	
1,2-Dibromoethane	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
Dibromomethane	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		Vinyl Chloride	ND	0.83	0.826	
1,1-Dichloroethane	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		Tert-Butyl Alcohol (TBA)	ND	17	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		Diisopropyl Ether (DIPE)	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Ethyl-t-Butyl Ether (ETBE)	ND	0.83	0.826	
1,3-Dichloropropane	ND	0.83	0.826		Tert-Amyl-Methyl Ether (TAME)	ND	0.83	0.826	
2,2-Dichloropropane	ND	4.1	0.826		Ethanol	ND	410	0.826	
1,1-Dichloropropene	ND	1.7	0.826						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	22	71-137		1,2-Dichloroethane-d4	24	58-160	
1,4-Bromofluorobenzene	19	66-126		Toluene-d8	19	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@1ft	**09-10-1694-6-D**	**10/21/09 10:13**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 18:21**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	77	40	0.805		c-1,3-Dichloropropene	ND	0.80	0.805	
Benzene	ND	0.80	0.805		t-1,3-Dichloropropene	ND	1.6	0.805	
Bromobenzene	ND	0.80	0.805		Ethylbenzene	ND	0.80	0.805	
Bromochloromethane	ND	1.6	0.805		2-Hexanone	ND	16	0.805	
Bromodichloromethane	ND	0.80	0.805		Isopropylbenzene	ND	0.80	0.805	
Bromoform	ND	4.0	0.805		p-Isopropyltoluene	ND	0.80	0.805	
Bromomethane	ND	16	0.805		Methylene Chloride	ND	8.0	0.805	
2-Butanone	ND	16	0.805		4-Methyl-2-Pentanone	ND	16	0.805	
n-Butylbenzene	ND	0.80	0.805		Naphthalene	ND	8.0	0.805	
sec-Butylbenzene	ND	0.80	0.805		n-Propylbenzene	ND	1.6	0.805	
tert-Butylbenzene	ND	0.80	0.805		Styrene	ND	0.80	0.805	
Carbon Disulfide	ND	8.0	0.805		1,1,1,2-Tetrachloroethane	ND	0.80	0.805	
Carbon Tetrachloride	ND	0.80	0.805		1,1,2,2-Tetrachloroethane	ND	1.6	0.805	
Chlorobenzene	ND	0.80	0.805		Tetrachloroethene	ND	0.80	0.805	
Chloroethane	ND	1.6	0.805		Toluene	ND	0.80	0.805	
Chloroform	ND	0.80	0.805		1,2,3-Trichlorobenzene	ND	1.6	0.805	
Chloromethane	ND	16	0.805		1,2,4-Trichlorobenzene	ND	1.6	0.805	
2-Chlorotoluene	ND	0.80	0.805		1,1,1-Trichloroethane	ND	0.80	0.805	
4-Chlorotoluene	ND	0.80	0.805		1,1,2-Trichloroethane	ND	0.80	0.805	
Dibromochloromethane	ND	1.6	0.805		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.805	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.805		Trichloroethene	ND	1.6	0.805	
1,2-Dibromoethane	ND	0.80	0.805		Trichlorofluoromethane	ND	8.0	0.805	
Dibromomethane	ND	0.80	0.805		1,2,3-Trichloropropane	ND	1.6	0.805	
1,2-Dichlorobenzene	ND	0.80	0.805		1,2,4-Trimethylbenzene	ND	1.6	0.805	
1,3-Dichlorobenzene	ND	0.80	0.805		1,3,5-Trimethylbenzene	ND	1.6	0.805	
1,4-Dichlorobenzene	ND	0.80	0.805		Vinyl Acetate	ND	8.0	0.805	
Dichlorodifluoromethane	ND	1.6	0.805		Vinyl Chloride	ND	0.80	0.805	
1,1-Dichloroethane	ND	0.80	0.805		p/m-Xylene	ND	1.6	0.805	
1,2-Dichloroethane	ND	0.80	0.805		o-Xylene	ND	0.80	0.805	
1,1-Dichloroethene	ND	0.80	0.805		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.805	
c-1,2-Dichloroethene	ND	0.80	0.805		Tert-Butyl Alcohol (TBA)	ND	16	0.805	
t-1,2-Dichloroethene	ND	0.80	0.805		Diisopropyl Ether (DIPE)	ND	0.80	0.805	
1,2-Dichloropropane	ND	0.80	0.805		Ethyl-t-Butyl Ether (ETBE)	ND	0.80	0.805	
1,3-Dichloropropane	ND	0.80	0.805		Tert-Amyl-Methyl Ether (TAME)	ND	0.80	0.805	
2,2-Dichloropropane	ND	4.0	0.805		Ethanol	ND	400	0.805	
1,1-Dichloropropene	ND	1.6	0.805						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	22	71-137		1,2-Dichloroethane-d4	23	58-160	
1,4-Bromofluorobenzene	19	66-126		Toluene-d8	20	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-59@5ft	**09-10-1694-7-D**	**10/21/09 10:20**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 18:51**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1.01		c-1,3-Dichloropropene	ND	1.0	1.01	
Benzene	ND	1.0	1.01		t-1,3-Dichloropropene	ND	2.0	1.01	
Bromobenzene	ND	1.0	1.01		Ethylbenzene	ND	1.0	1.01	
Bromochloromethane	ND	2.0	1.01		2-Hexanone	ND	20	1.01	
Bromodichloromethane	ND	1.0	1.01		Isopropylbenzene	ND	1.0	1.01	
Bromoform	ND	5.0	1.01		p-Isopropyltoluene	ND	1.0	1.01	
Bromomethane	ND	20	1.01		Methylene Chloride	ND	10	1.01	
2-Butanone	ND	20	1.01		4-Methyl-2-Pentanone	ND	20	1.01	
n-Butylbenzene	ND	1.0	1.01		Naphthalene	ND	10	1.01	
sec-Butylbenzene	ND	1.0	1.01		n-Propylbenzene	ND	2.0	1.01	
tert-Butylbenzene	ND	1.0	1.01		Styrene	ND	1.0	1.01	
Carbon Disulfide	ND	10	1.01		1,1,1,2-Tetrachloroethane	ND	1.0	1.01	
Carbon Tetrachloride	ND	1.0	1.01		1,1,2,2-Tetrachloroethane	ND	2.0	1.01	
Chlorobenzene	ND	1.0	1.01		Tetrachloroethene	ND	1.0	1.01	
Chloroethane	ND	2.0	1.01		Toluene	ND	1.0	1.01	
Chloroform	ND	1.0	1.01		1,2,3-Trichlorobenzene	ND	2.0	1.01	
Chloromethane	ND	20	1.01		1,2,4-Trichlorobenzene	ND	2.0	1.01	
2-Chlorotoluene	ND	1.0	1.01		1,1,1-Trichloroethane	ND	1.0	1.01	
4-Chlorotoluene	ND	1.0	1.01		1,1,2-Trichloroethane	ND	1.0	1.01	
Dibromochloromethane	ND	2.0	1.01		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.01	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.01		Trichloroethene	ND	2.0	1.01	
1,2-Dibromoethane	ND	1.0	1.01		Trichlorofluoromethane	ND	10	1.01	
Dibromomethane	ND	1.0	1.01		1,2,3-Trichloropropane	ND	2.0	1.01	
1,2-Dichlorobenzene	ND	1.0	1.01		1,2,4-Trimethylbenzene	ND	2.0	1.01	
1,3-Dichlorobenzene	ND	1.0	1.01		1,3,5-Trimethylbenzene	ND	2.0	1.01	
1,4-Dichlorobenzene	ND	1.0	1.01		Vinyl Acetate	ND	10	1.01	
Dichlorodifluoromethane	ND	2.0	1.01		Vinyl Chloride	ND	1.0	1.01	
1,1-Dichloroethane	ND	1.0	1.01		p/m-Xylene	ND	2.0	1.01	
1,2-Dichloroethane	ND	1.0	1.01		o-Xylene	ND	1.0	1.01	
1,1-Dichloroethene	ND	1.0	1.01		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.01	
c-1,2-Dichloroethene	ND	1.0	1.01		Tert-Butyl Alcohol (TBA)	ND	20	1.01	
t-1,2-Dichloroethene	ND	1.0	1.01		Diisopropyl Ether (DIPE)	ND	1.0	1.01	
1,2-Dichloropropane	ND	1.0	1.01		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.01	
1,3-Dichloropropane	ND	1.0	1.01		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.01	
2,2-Dichloropropane	ND	5.0	1.01		Ethanol	ND	500	1.01	
1,1-Dichloropropene	ND	2.0	1.01						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	22	71-137		1,2-Dichloroethane-d4	24	58-160	
1,4-Bromofluorobenzene	19	66-126		Toluene-d8	20	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17@1ft	**09-10-1694-9-D**	**10/21/09 11:00**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 19:22**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	110	44	0.88		c-1,3-Dichloropropene	ND	0.88	0.88	
Benzene	ND	0.88	0.88		t-1,3-Dichloropropene	ND	1.8	0.88	
Bromobenzene	ND	0.88	0.88		Ethylbenzene	ND	0.88	0.88	
Bromochloromethane	ND	1.8	0.88		2-Hexanone	ND	18	0.88	
Bromodichloromethane	ND	0.88	0.88		Isopropylbenzene	ND	0.88	0.88	
Bromoform	ND	4.4	0.88		p-Isopropyltoluene	ND	0.88	0.88	
Bromomethane	ND	18	0.88		Methylene Chloride	ND	8.8	0.88	
2-Butanone	ND	18	0.88		4-Methyl-2-Pentanone	ND	18	0.88	
n-Butylbenzene	ND	0.88	0.88		Naphthalene	ND	8.8	0.88	
sec-Butylbenzene	ND	0.88	0.88		n-Propylbenzene	ND	1.8	0.88	
tert-Butylbenzene	ND	0.88	0.88		Styrene	ND	0.88	0.88	
Carbon Disulfide	ND	8.8	0.88		1,1,1,2-Tetrachloroethane	ND	0.88	0.88	
Carbon Tetrachloride	ND	0.88	0.88		1,1,2,2-Tetrachloroethane	ND	1.8	0.88	
Chlorobenzene	ND	0.88	0.88		Tetrachloroethene	ND	0.88	0.88	
Chloroethane	ND	1.8	0.88		Toluene	ND	0.88	0.88	
Chloroform	ND	0.88	0.88		1,2,3-Trichlorobenzene	ND	1.8	0.88	
Chloromethane	ND	18	0.88		1,2,4-Trichlorobenzene	ND	1.8	0.88	
2-Chlorotoluene	ND	0.88	0.88		1,1,1-Trichloroethane	ND	0.88	0.88	
4-Chlorotoluene	ND	0.88	0.88		1,1,2-Trichloroethane	ND	0.88	0.88	
Dibromochloromethane	ND	1.8	0.88		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.8	0.88	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.88		Trichloroethene	ND	1.8	0.88	
1,2-Dibromoethane	ND	0.88	0.88		Trichlorofluoromethane	ND	8.8	0.88	
Dibromomethane	ND	0.88	0.88		1,2,3-Trichloropropane	ND	1.8	0.88	
1,2-Dichlorobenzene	ND	0.88	0.88		1,2,4-Trimethylbenzene	ND	1.8	0.88	
1,3-Dichlorobenzene	ND	0.88	0.88		1,3,5-Trimethylbenzene	ND	1.8	0.88	
1,4-Dichlorobenzene	ND	0.88	0.88		Vinyl Acetate	ND	8.8	0.88	
Dichlorodifluoromethane	ND	1.8	0.88		Vinyl Chloride	ND	0.88	0.88	
1,1-Dichloroethane	ND	0.88	0.88		p/m-Xylene	ND	1.8	0.88	
1,2-Dichloroethane	ND	0.88	0.88		o-Xylene	ND	0.88	0.88	
1,1-Dichloroethene	ND	0.88	0.88		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.88	
c-1,2-Dichloroethene	ND	0.88	0.88		Tert-Butyl Alcohol (TBA)	ND	18	0.88	
t-1,2-Dichloroethene	ND	0.88	0.88		Diisopropyl Ether (DIPE)	ND	0.88	0.88	
1,2-Dichloropropane	ND	0.88	0.88		Ethyl-t-Butyl Ether (ETBE)	ND	0.88	0.88	
1,3-Dichloropropane	ND	0.88	0.88		Tert-Amyl-Methyl Ether (TAME)	ND	0.88	0.88	
2,2-Dichloropropane	ND	4.4	0.88		Ethanol	ND	440	0.88	
1,1-Dichloropropene	ND	1.8	0.88						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	23	71-137		1,2-Dichloroethane-d4	23	58-160	
1,4-Bromofluorobenzene	18	66-126		Toluene-d8	19	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@1ft	**09-10-1694-11-D**	**10/21/09 11:19**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 19:52**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	110	45	0.893		c-1,3-Dichloropropene	ND	0.89	0.893	
Benzene	ND	0.89	0.893		t-1,3-Dichloropropene	ND	1.8	0.893	
Bromobenzene	ND	0.89	0.893		Ethylbenzene	ND	0.89	0.893	
Bromochloromethane	ND	1.8	0.893		2-Hexanone	ND	18	0.893	
Bromodichloromethane	ND	0.89	0.893		Isopropylbenzene	ND	0.89	0.893	
Bromoform	ND	4.5	0.893		p-Isopropyltoluene	ND	0.89	0.893	
Bromomethane	ND	18	0.893		Methylene Chloride	ND	8.9	0.893	
2-Butanone	ND	18	0.893		4-Methyl-2-Pentanone	ND	18	0.893	
n-Butylbenzene	ND	0.89	0.893		Naphthalene	ND	8.9	0.893	
sec-Butylbenzene	ND	0.89	0.893		n-Propylbenzene	ND	1.8	0.893	
tert-Butylbenzene	ND	0.89	0.893		Styrene	ND	0.89	0.893	
Carbon Disulfide	ND	8.9	0.893		1,1,1,2-Tetrachloroethane	ND	0.89	0.893	
Carbon Tetrachloride	ND	0.89	0.893		1,1,2,2-Tetrachloroethane	ND	1.8	0.893	
Chlorobenzene	ND	0.89	0.893		Tetrachloroethene	ND	0.89	0.893	
Chloroethane	ND	1.8	0.893		Toluene	ND	0.89	0.893	
Chloroform	ND	0.89	0.893		1,2,3-Trichlorobenzene	ND	1.8	0.893	
Chloromethane	ND	18	0.893		1,2,4-Trichlorobenzene	ND	1.8	0.893	
2-Chlorotoluene	ND	0.89	0.893		1,1,1-Trichloroethane	ND	0.89	0.893	
4-Chlorotoluene	ND	0.89	0.893		1,1,2-Trichloroethane	ND	0.89	0.893	
Dibromochloromethane	ND	1.8	0.893		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.893	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.893		Trichloroethene	ND	1.8	0.893	
1,2-Dibromoethane	ND	0.89	0.893		Trichlorofluoromethane	ND	8.9	0.893	
Dibromomethane	ND	0.89	0.893		1,2,3-Trichloropropane	ND	1.8	0.893	
1,2-Dichlorobenzene	ND	0.89	0.893		1,2,4-Trimethylbenzene	ND	1.8	0.893	
1,3-Dichlorobenzene	ND	0.89	0.893		1,3,5-Trimethylbenzene	ND	1.8	0.893	
1,4-Dichlorobenzene	ND	0.89	0.893		Vinyl Acetate	ND	8.9	0.893	
Dichlorodifluoromethane	ND	1.8	0.893		Vinyl Chloride	ND	0.89	0.893	
1,1-Dichloroethane	ND	0.89	0.893		p/m-Xylene	ND	1.8	0.893	
1,2-Dichloroethane	ND	0.89	0.893		o-Xylene	ND	0.89	0.893	
1,1-Dichloroethene	ND	0.89	0.893		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.893	
c-1,2-Dichloroethene	ND	0.89	0.893		Tert-Butyl Alcohol (TBA)	ND	18	0.893	
t-1,2-Dichloroethene	ND	0.89	0.893		Diisopropyl Ether (DIPE)	ND	0.89	0.893	
1,2-Dichloropropane	ND	0.89	0.893		Ethyl-t-Butyl Ether (ETBE)	ND	0.89	0.893	
1,3-Dichloropropane	ND	0.89	0.893		Tert-Amyl-Methyl Ether (TAME)	ND	0.89	0.893	
2,2-Dichloropropane	ND	4.5	0.893		Ethanol	ND	450	0.893	
1,1-Dichloropropene	ND	1.8	0.893						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	23	71-137		1,2-Dichloroethane-d4	24	58-160	
1,4-Bromofluorobenzene	19	66-126		Toluene-d8	19	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 10 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15@5ft	**09-10-1694-12-D**	**10/21/09 11:25**	**Solid**	**GC/MS XX**	**10/21/09**	**10/27/09 20:22**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	75	56	1.11		c-1,3-Dichloropropene	ND	1.1	1.11	
Benzene	ND	1.1	1.11		t-1,3-Dichloropropene	ND	2.2	1.11	
Bromobenzene	ND	1.1	1.11		Ethylbenzene	ND	1.1	1.11	
Bromochloromethane	ND	2.2	1.11		2-Hexanone	ND	22	1.11	
Bromodichloromethane	ND	1.1	1.11		Isopropylbenzene	ND	1.1	1.11	
Bromoform	ND	5.6	1.11		p-Isopropyltoluene	ND	1.1	1.11	
Bromomethane	ND	22	1.11		Methylene Chloride	ND	11	1.11	
2-Butanone	ND	22	1.11		4-Methyl-2-Pentanone	ND	22	1.11	
n-Butylbenzene	ND	1.1	1.11		Naphthalene	ND	11	1.11	
sec-Butylbenzene	ND	1.1	1.11		n-Propylbenzene	ND	2.2	1.11	
tert-Butylbenzene	ND	1.1	1.11		Styrene	ND	1.1	1.11	
Carbon Disulfide	ND	11	1.11		1,1,1,2-Tetrachloroethane	ND	1.1	1.11	
Carbon Tetrachloride	ND	1.1	1.11		1,1,2,2-Tetrachloroethane	ND	2.2	1.11	
Chlorobenzene	ND	1.1	1.11		Tetrachloroethene	ND	1.1	1.11	
Chloroethane	ND	2.2	1.11		Toluene	ND	1.1	1.11	
Chloroform	ND	1.1	1.11		1,2,3-Trichlorobenzene	ND	2.2	1.11	
Chloromethane	ND	22	1.11		1,2,4-Trichlorobenzene	ND	2.2	1.11	
2-Chlorotoluene	ND	1.1	1.11		1,1,1-Trichloroethane	ND	1.1	1.11	
4-Chlorotoluene	ND	1.1	1.11		1,1,2-Trichloroethane	ND	1.1	1.11	
Dibromochloromethane	ND	2.2	1.11		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.11	
1,2-Dibromo-3-Chloropropane	ND	5.6	1.11		Trichloroethene	ND	2.2	1.11	
1,2-Dibromoethane	ND	1.1	1.11		Trichlorofluoromethane	ND	11	1.11	
Dibromomethane	ND	1.1	1.11		1,2,3-Trichloropropane	ND	2.2	1.11	
1,2-Dichlorobenzene	ND	1.1	1.11		1,2,4-Trimethylbenzene	ND	2.2	1.11	
1,3-Dichlorobenzene	ND	1.1	1.11		1,3,5-Trimethylbenzene	ND	2.2	1.11	
1,4-Dichlorobenzene	ND	1.1	1.11		Vinyl Acetate	ND	11	1.11	
Dichlorodifluoromethane	ND	2.2	1.11		Vinyl Chloride	ND	1.1	1.11	
1,1-Dichloroethane	ND	1.1	1.11		p/m-Xylene	ND	2.2	1.11	
1,2-Dichloroethane	ND	1.1	1.11		o-Xylene	ND	1.1	1.11	
1,1-Dichloroethene	ND	1.1	1.11		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.11	
c-1,2-Dichloroethene	ND	1.1	1.11		Tert-Butyl Alcohol (TBA)	ND	22	1.11	
t-1,2-Dichloroethene	ND	1.1	1.11		Diisopropyl Ether (DIPE)	ND	1.1	1.11	
1,2-Dichloropropane	ND	1.1	1.11		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.11	
1,3-Dichloropropane	ND	1.1	1.11		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.11	
2,2-Dichloropropane	ND	5.6	1.11		Ethanol	ND	560	1.11	
1,1-Dichloropropene	ND	2.2	1.11						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	23	71-137		1,2-Dichloroethane-d4	24	58-160	
1,4-Bromofluorobenzene	19	66-126		Toluene-d8	20	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,409**	**N/A**	**Solid**	**GC/MS XX**	**10/27/09**	**10/27/09 14:20**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	110	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1721-11	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	15	22	50-115	37	0-20	3,4
Arsenic	128	129	75-125	1	0-20	3
Beryllium	120	124	75-125	3	0-20	
Cadmium	111	117	75-125	5	0-20	
Chromium	143	150	75-125	3	0-20	3
Copper	134	134	75-125	0	0-20	3
Lead	119	123	75-125	3	0-20	
Nickel	136	138	75-125	1	0-20	3
Selenium	103	108	75-125	5	0-20	
Silver	124	130	75-125	5	0-20	3
Thallium	113	120	75-125	6	0-20	
Zinc	150	140	75-125	4	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1694
Emeryville, CA 94608-1811		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-10-1721-11	**Solid**	**ICP 5300**	**10/23/09**	**10/28/09**	**091023S04**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	80	81	75-125	1	0-20	
Arsenic	94	90	75-125	4	0-20	
Beryllium	96	96	75-125	0	0-20	
Cadmium	90	90	75-125	1	0-20	
Chromium	87	87	75-125	0	0-20	
Copper	95	96	75-125	1	0-20	
Lead	91	91	75-125	1	0-20	
Nickel	88	88	75-125	0	0-20	
Selenium	87	85	75-125	2	0-20	
Silver	104	104	75-125	0	0-20	
Thallium	92	92	75-125	0	0-20	
Zinc	82	82	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1693-3	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	22	24	50-115	8	0-20	3
Arsenic	117	114	75-125	2	0-20	
Beryllium	111	111	75-125	0	0-20	
Cadmium	104	105	75-125	1	0-20	
Chromium	113	113	75-125	0	0-20	
Copper	114	114	75-125	0	0-20	
Lead	108	109	75-125	1	0-20	
Nickel	117	119	75-125	1	0-20	
Selenium	99	99	75-125	0	0-20	
Silver	115	115	75-125	0	0-20	
Thallium	107	107	75-125	0	0-20	
Zinc	114	116	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1754-3	**Solid**	**GC 47**	**10/23/09**	**10/26/09**	**091023S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	87	81	64-130	7	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1658-1	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	105	96	80-120	10	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-10-1658-1	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026S01**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	93	92	75-125	1	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1693-13	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09**	**091023S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	114	114	21-133	1	0-25	
2-Methylnaphthalene	106	104	21-140	1	0-25	
1-Methylnaphthalene	118	119	40-160	1	0-25	
Acenaphthylene	112	109	33-145	3	0-25	
Acenaphthene	114	109	40-106	4	0-25	3
Fluorene	118	113	59-121	4	0-25	
Phenanthrene	124	119	54-120	4	0-25	3
Anthracene	90	87	27-133	4	0-25	
Fluoranthene	125	123	26-137	2	0-25	
Pyrene	110	106	6-156	3	0-25	
Benzo (a) Anthracene	142	123	33-143	14	0-25	
Chrysene	133	132	17-168	1	0-25	
Benzo (k) Fluoranthene	113	102	24-159	11	0-25	
Benzo (b) Fluoranthene	108	95	24-159	14	0-25	
Benzo (a) Pyrene	103	93	17-163	10	0-25	
Indeno (1,2,3-c,d) Pyrene	120	118	0-171	2	0-25	
Dibenz (a,h) Anthracene	91	89	0-227	2	0-25	
Benzo (g,h,i) Perylene	91	80	0-219	13	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-59@5ft	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09**	**091024S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	80	68	57-123	17	0-16	4
2-Chlorophenol	78	66	57-111	18	0-17	4
1,4-Dichlorobenzene	81	67	49-127	18	0-20	
N-Nitroso-di-n-propylamine	83	70	54-144	16	0-17	
1,2,4-Trichlorobenzene	82	68	42-132	18	0-20	
Naphthalene	74	62	50-150	17	0-20	
4-Chloro-3-Methylphenol	75	65	50-128	14	0-17	
Dimethyl Phthalate	70	59	50-150	17	0-20	
Acenaphthylene	74	62	50-150	18	0-20	
Acenaphthene	80	67	49-133	17	0-18	
4-Nitrophenol	62	62	30-144	0	0-21	
2,4-Dinitrotoluene	77	65	50-128	16	0-18	
Fluorene	72	61	50-150	17	0-20	
Pentachlorophenol	63	52	29-113	19	0-22	
Pyrene	81	71	47-149	13	0-20	
Butyl Benzyl Phthalate	76	64	50-150	18	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-15@5ft	**Solid**	**GC 44**	**10/24/09**	**10/28/09**	**091024S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	84	84	50-135	0	0-25	
Gamma-BHC	84	85	50-135	0	0-25	
Beta-BHC	86	88	50-135	2	0-25	
Heptachlor	84	85	50-135	0	0-25	
Delta-BHC	93	98	50-135	5	0-25	
Aldrin	82	82	50-135	0	0-25	
Heptachlor Epoxide	77	74	50-135	4	0-25	
Endosulfan I	77	79	50-135	2	0-25	
Dieldrin	81	82	50-135	1	0-25	
4,4'-DDE	98	100	50-135	2	0-25	
Endrin	98	98	50-135	0	0-25	
Endrin Aldehyde	86	135	50-135	45	0-25	4
4,4'-DDD	95	93	50-135	2	0-25	
Endosulfan II	80	79	50-135	1	0-25	
4,4'-DDT	82	83	50-135	1	0-25	
Endosulfan Sulfate	80	80	50-135	1	0-25	
Methoxychlor	88	88	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1886-1	**Solid**	**GC 31**	**10/24/09**	**10/27/09**	**091024S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	76	78	50-135	3	0-25	
Aroclor-1260	90	87	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-59@5ft	**Solid**	**GC 35**	**10/24/09**	**10/27/09**	**091024S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	101	100	30-130	1	0-30	
Bolstar	86	85	30-130	1	0-30	
Chlorpyrifos	91	92	30-130	0	0-30	
Coumaphos	101	101	30-130	1	0-30	
Diazinon	96	100	30-130	4	0-30	
Disulfoton	103	106	30-130	3	0-30	
Ethoprop	100	102	30-130	2	0-30	
Fensulfothion	108	108	30-130	0	0-30	
Fenthion	98	99	30-130	1	0-30	
Merphos	70	74	30-130	6	0-30	
Methyl Parathion	92	95	30-130	4	0-30	
Phorate	111	113	30-130	2	0-30	
Ronnel	88	91	30-130	3	0-30	
Stirophos	109	111	30-130	2	0-30	
Tokuthion	82	84	30-130	2	0-30	
Trichloronate	104	96	30-130	8	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,867	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	101	100	80-120	73-127	1	0-20	
Arsenic	104	104	80-120	73-127	0	0-20	
Beryllium	104	101	80-120	73-127	2	0-20	
Cadmium	106	103	80-120	73-127	2	0-20	
Chromium	104	102	80-120	73-127	2	0-20	
Copper	107	105	80-120	73-127	1	0-20	
Lead	107	107	80-120	73-127	0	0-20	
Nickel	108	108	80-120	73-127	0	0-20	
Selenium	96	96	80-120	73-127	0	0-20	
Silver	115	113	80-120	73-127	2	0-20	
Thallium	108	108	80-120	73-127	0	0-20	
Zinc	107	104	80-120	73-127	2	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,866	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	100	101	80-120	73-127	1	0-20	
Arsenic	105	105	80-120	73-127	0	0-20	
Beryllium	101	101	80-120	73-127	0	0-20	
Cadmium	105	104	80-120	73-127	0	0-20	
Chromium	102	102	80-120	73-127	0	0-20	
Copper	106	106	80-120	73-127	0	0-20	
Lead	108	108	80-120	73-127	0	0-20	
Nickel	109	108	80-120	73-127	0	0-20	
Selenium	95	97	80-120	73-127	2	0-20	
Silver	114	114	80-120	73-127	0	0-20	
Thallium	109	108	80-120	73-127	0	0-20	
Zinc	106	106	80-120	73-127	0	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1694
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-883	**Solid**	**GC 47**	**10/23/09**	**10/26/09**	**091023B09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	97	103	75-123	7	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1694
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,617	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	98	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-386	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09**	**091023L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	101	99	21-133	2-152	2	0-25	
2-Methylnaphthalene	76	75	21-140	1-160	0	0-25	
1-Methylnaphthalene	73	91	40-160	20-180	22	0-25	
Acenaphthylene	80	80	33-145	14-164	0	0-25	
Acenaphthene	96	96	48-108	38-118	1	0-11	
Fluorene	95	94	59-121	49-131	1	0-25	
Phenanthrene	95	95	54-120	43-131	0	0-25	
Anthracene	60	61	27-133	9-151	1	0-25	
Fluoranthene	89	89	26-137	8-156	1	0-25	
Pyrene	84	84	28-106	15-119	0	0-16	
Benzo (a) Anthracene	84	84	33-143	15-161	0	0-25	
Chrysene	88	80	17-168	0-193	10	0-25	
Benzo (k) Fluoranthene	109	108	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	88	87	24-159	2-182	1	0-25	
Benzo (a) Pyrene	83	82	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	111	109	0-171	0-200	2	0-25	
Dibenz (a,h) Anthracene	85	83	0-219	0-256	2	0-25	
Benzo (g,h,i) Perylene	84	82	0-227	0-265	3	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-972	**Solid**	**GC/MS TT**	**10/24/09**	**10/27/09**	**091024L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	91	90	59-125	48-136	1	0-15	
2-Chlorophenol	88	87	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	89	88	61-121	51-131	1	0-21	
N-Nitroso-di-n-propylamine	80	80	64-136	52-148	1	0-15	
1,2,4-Trichlorobenzene	91	91	58-118	48-128	0	0-18	
Naphthalene	84	84	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	89	88	61-121	51-131	0	0-14	
Dimethyl Phthalate	85	85	0-112	0-131	0	0-20	
Acenaphthylene	77	77	33-145	14-164	0	0-20	
Acenaphthene	85	84	59-125	48-136	1	0-15	
4-Nitrophenol	88	88	38-152	19-171	0	0-31	
2,4-Dinitrotoluene	91	91	51-141	36-156	0	0-16	
Fluorene	83	82	59-121	49-131	1	0-20	
Pentachlorophenol	77	77	38-116	25-129	1	0-20	
Pyrene	80	81	51-141	36-156	0	0-14	
Butyl Benzyl Phthalate	83	82	0-152	0-177	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-755	**Solid**	**GC 44**	**10/24/09**	**10/27/09**	**0910224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	83	86	50-135	36-149	3	0-25	
Gamma-BHC	87	89	50-135	36-149	3	0-25	
Beta-BHC	97	99	50-135	36-149	2	0-25	
Heptachlor	86	88	50-135	36-149	3	0-25	
Delta-BHC	104	105	50-135	36-149	1	0-25	
Aldrin	84	85	50-135	36-149	1	0-25	
Heptachlor Epoxide	81	82	50-135	36-149	1	0-25	
Endosulfan I	76	77	50-135	36-149	1	0-25	
Dieldrin	91	92	50-135	36-149	2	0-25	
4,4'-DDE	110	113	50-135	36-149	3	0-25	
Endrin	98	101	50-135	36-149	3	0-25	
Endrin Aldehyde	91	93	50-135	36-149	2	0-25	
4,4'-DDD	95	96	50-135	36-149	1	0-25	
Endosulfan II	92	93	50-135	36-149	1	0-25	
4,4'-DDT	98	101	50-135	36-149	3	0-25	
Endosulfan Sulfate	91	93	50-135	36-149	2	0-25	
Methoxychlor	99	101	50-135	36-149	3	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1694
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-804	**Solid**	**GC 31**	**10/24/09**	**10/27/09**	**091024L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	77	83	50-135	8	0-20	
Aroclor-1260	108	120	50-135	11	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-13	**Solid**	**GC 35**	**10/24/09**	**10/27/09**	**091024L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	93	98	30-130	13-147	5	0-30	
Bolstar	82	84	30-130	13-147	2	0-30	
Chlorpyrifos	84	87	30-130	13-147	4	0-30	
Coumaphos	95	99	30-130	13-147	4	0-30	
Diazinon	91	95	30-130	13-147	4	0-30	
Disulfoton	96	103	30-130	13-147	6	0-30	
Ethoprop	88	103	30-130	13-147	15	0-30	
Fensulfothion	101	105	30-130	13-147	4	0-30	
Fenthion	90	95	30-130	13-147	6	0-30	
Merphos	63	70	30-130	13-147	10	0-30	
Methyl Parathion	87	93	30-130	13-147	6	0-30	
Phorate	101	113	30-130	13-147	12	0-30	
Ronnel	84	88	30-130	13-147	4	0-30	
Stirophos	102	107	30-130	13-147	5	0-30	
Tokuthion	77	81	30-130	13-147	6	0-30	
Trichloronate	87	91	30-130	13-147	4	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1694
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,409	**Solid**	**GC/MS XX**	**10/27/09**	**10/27/09**	**091027L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	105	104	85-115	80-120	0	0-11	
Carbon Tetrachloride	108	107	68-134	57-145	0	0-14	
Chlorobenzene	104	105	83-119	77-125	1	0-9	
1,2-Dibromoethane	102	104	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	105	105	57-135	44-148	0	0-10	
1,1-Dichloroethene	103	102	72-120	64-128	1	0-10	
Ethylbenzene	109	110	80-120	73-127	1	0-20	
Toluene	106	105	67-127	57-137	0	0-10	
Trichloroethene	104	104	88-112	84-116	1	0-9	
Vinyl Chloride	95	97	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	103	104	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	102	100	31-145	12-164	2	0-23	
Diisopropyl Ether (DIPE)	104	104	74-128	65-137	0	0-10	
Ethyl-t-Butyl Ether (ETBE)	114	112	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	100	102	81-123	74-130	2	0-10	
Ethanol	91	90	44-152	26-170	1	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1694

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name: RC000746.0002.00006

Project Location: PG&E Radbock, Oakley

Laboratory: Cal Science

Project Manager: Kathy Brandt

Sampler(s)/Affiliation: LK

09-10-1694

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	Low Level VOCs (USEPA 8260B/8260B) TBC (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/8141A)	PP Metals (USEPA 6010B/7470/7471)	Diesel Fuels (USEPA 8260)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Remarks	Total
SB-3@1ft	S	10/21/09 0915	1		X	X	X	X	X	X	X	X		6
SB-2@1ft		0920	2			X	X	X		hold				
SB-20@1ft		0927	3		X	X	X	X	X	X	X	X		
SB-7@1ft		1001	4	X	X	X	X	X	X	X	X	X		
SB-8@1ft		1045	5	X	X	X	X	X	X	X	X	X		
SB-59@1ft		1013	6	X	X	X	X	X	X	X	X			
SB-59@5ft		1020	7	X	X	X	X	X	X	hold	X			
SB-58@1ft		1053	8		X	hold	X	X	X	X	hold			
SB-17@1ft		1100	9	X	X	X	X	X	X	X	X			
SB-54@1ft		1112	10		X	hold	X	X	X	X	hold			
SB-15@1ft		1119	11	X	X	X	X	X	X	X	X			
SB-15@5ft		1125	12	X		X	X	X	X	hold	X			

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 72

Relinquished by: [signature]	Organization: ARCADIS	Date 10/21/09	Time ~~408~~ 1608	Seal Intact? Yes No N/A
Received by: Tomally CEL	Organization: CALscience	Date 10/21/09	Time 1615	
Relinquished by: [signature] to 680	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1015	

Special Instructions/Remarks:

680 512875731

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: _____
Temperature: _____ °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen **Page_____ of_____**

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1694
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☐ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☐ I/II ☐ III ☐ IV	☐ Hardcopy	
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☐ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-3 @ 1 ft	10-21-09	0915	S	1		X									D/E
2	-2		0920				HOLD									
3	-20		0927				X									
4	-7		1007													
5	-8		1045													
6	-59		1013													
7			1020				HOLD									
8	-58		1053				X									
9	-17		1100													
10	-54		1112													
11	-15		1119													
12	5 ft		1125				HOLD									
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Alan B. Kemp / FAL	10-21-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1694

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** D.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☑ D.L 10/22/09
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 60m PB

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** D.L

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** AM

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** D.L

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 12, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1694**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

November 9, 2009

FAL Project ID: 5798

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5798**. This corresponds to your project number **09-10-1694**. Twelve soil samples were received on 10/22/2009 in good condition. Per your instructions, samples 5798-002-SA, 5798-007-SA, and 5798-012-SA (Calscience IDs: SB-2 @ 1ft , SB-59 @ 5ft, and SB-15 @ 5ft respectively) were placed on hold. The remaining nine samples were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5798**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. In addition, an electronic disk deliverable (EDD) for this project has been e-mailed to you.

If you have any questions regarding project **5798**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5798**

Received on: **10/22/2009** Project Due: **11/13/2009** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5798-001-SA	0	09-10-1694	SB-3 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	09:15 am	11/20/2009
5798-002-SA	0	09-10-1694	SB-2 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	09:20 am	11/20/2009
5798-003-SA	0	09-10-1694	SB-20 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	09:27 am	11/20/2009
5798-004-SA	0	09-10-1694	SB-7 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	10:07 am	11/20/2009
5798-005-SA	0	09-10-1694	SB-8 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	10:45 am	11/20/2009
5798-006-SA	0	09-10-1694	SB-59 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	10:13 am	11/20/2009
5798-007-SA	0	09-10-1694	SB-59 @ 5 ft	EPA 8290 D/F	Soil	10/21/2009	10:20 am	11/20/2009
5798-008-SA	0	09-10-1694	SB-58 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	10:53 am	11/20/2009
5798-009-SA	0	09-10-1694	SB-17 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	11:00 am	11/20/2009
5798-010-SA	0	09-10-1694	SB-54 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	11:12 am	11/20/2009
5798-011-SA	0	09-10-1694	SB-15 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	11:19 am	11/20/2009
5798-012-SA	0	09-10-1694	SB-15 @ 5 ft	EPA 8290 D/F	Soil	10/21/2009	11:25 am	11/20/2009

FAL Sample ID	Notes
5798-002-SA	'HOLD'
5798-007-SA	'HOLD. Using hand written sample ID from jar label for our tracking purposes. '
5798-012-SA	'HOLD.'

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0940		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.150		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.133		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.182		-	0.0680	Total TCDD	ND	0.0940	
1,2,3,7,8,9-HxCDD	ND	0.172		-	0.0666	Total PeCDD	ND	0.150	
1,2,3,4,6,7,8-HpCDD	ND	0.382		-	0.0927	Total HxCDD	ND	0.182	
OCDD	ND	1.16		-	0.272	Total HpCDD	ND	0.382	
2,3,7,8-TCDF	ND	0.0565		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0952		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.127		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0801		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0865		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0757		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.120		-	0.0493	Total TCDF	ND	0.0565	
1,2,3,4,6,7,8-HpCDF	ND	0.144		-	0.0404	Total PeCDF	ND	0.127	
1,2,3,4,7,8,9-HpCDF	ND	0.166		-	0.0469	Total HxCDF	ND	1.20	
OCDF	ND	0.349		-	0.177	Total HpCDF	ND	0.166	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	83.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	65.8	40.0 - 135	
13C-OCDD	48.6	40.0 - 135	
13C-2,3,7,8-TCDF	90.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	80.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	79.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	69.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	69.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	74.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	62.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	71.8	40.0 - 135	
13C-OCDF	55.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	94.6	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/9/09

Reviewed By: DPJ
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 11-07-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	9.07	7.00 - 13.0	
1,2,3,7,8-PeCDD	50.8	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	49.4	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	48.9	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	49.6	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	46.0	35.0 - 65.0	
OCDD	94.2	70.0 - 130	
2,3,7,8-TCDF	8.63	7.00 - 13.0	
1,2,3,7,8-PeCDF	47.1	35.0 - 65.0	
2,3,4,7,8-PeCDF	47.6	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	46.9	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	45.6	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	46.3	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	45.5	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	46.8	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	47.7	35.0 - 65.0	
OCDF	89.2	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	83.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	66.9	40.0 - 135	
13C-OCDD	49.0	40.0 - 135	
13C-2,3,7,8-TCDF	94.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	83.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	82.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	69.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	69.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	67.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	74.4	40.0 - 135	
13C-OCDF	56.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	103	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: DN
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-001-SA
Client ID: SB-3 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 5.02 g
% Solids: 79.06

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.620

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0887		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.331		-	0.0457				
1,2,3,4,7,8-HxCDD	0.241	-	J	0.0241	0.0496				
1,2,3,6,7,8-HxCDD	1.02	-	J	0.102	0.0680	Total TCDD	0.432	-	J
1,2,3,7,8,9-HxCDD	0.721	-	J	0.0721	0.0666	Total PeCDD	ND	0.331	
1,2,3,4,6,7,8-HpCDD	13.5	-		0.135	0.0927	Total HxCDD	5.40	-	
OCDD	119	-		0.0357	0.272	Total HpCDD	24.1	-	
2,3,7,8-TCDF	0.258	-	J	0.0258	0.0252				
1,2,3,7,8-PeCDF	ND	0.130		-	0.0365				
2,3,4,7,8-PeCDF	0.288	-	J	0.0864	0.0486				
1,2,3,4,7,8-HxCDF	0.379	-	J	0.0379	0.0267				
1,2,3,6,7,8-HxCDF	0.283	-	J	0.0283	0.0289				
2,3,4,6,7,8-HxCDF	0.346	-	J	0.0346	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.148		-	0.0493	Total TCDF	2.36	-	
1,2,3,4,6,7,8-HpCDF	3.64	-	J	0.0364	0.0404	Total PeCDF	5.60	-	
1,2,3,4,7,8,9-HpCDF	ND	0.263		-	0.0469	Total HxCDF	6.54	-	
OCDF	6.17	-	J	0.00185	0.177	Total HpCDF	8.72	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	91.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	75.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.0	40.0 - 135	
13C-OCDD	49.2	40.0 - 135	
13C-2,3,7,8-TCDF	97.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	88.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	75.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	74.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	73.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	65.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	72.9	40.0 - 135	
13C-OCDF	56.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: DPJ
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-003-SA
Client ID: SB-20 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 5.15 g
% Solids: 96.10

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.359

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.106		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.223		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.180		-	0.0496				
1,2,3,6,7,8-HxCDD	0.577	-	J	0.0577	0.0680	Total TCDD	ND	0.106	
1,2,3,7,8,9-HxCDD	0.514	-	J	0.0514	0.0666	Total PeCDD	ND	0.223	
1,2,3,4,6,7,8-HpCDD	8.55	-		0.0855	0.0927	Total HxCDD	3.22	-	J
OCDD	60.2	-		0.0181	0.272	Total HpCDD	16.4	-	
2,3,7,8-TCDF	0.201	-	J	0.0201	0.0252				
1,2,3,7,8-PeCDF	0.267	-	J	0.00801	0.0365				
2,3,4,7,8-PeCDF	ND	0.137		-	0.0486				
1,2,3,4,7,8-HxCDF	0.406	-	J	0.0406	0.0267				
1,2,3,6,7,8-HxCDF	0.275	-	J	0.0275	0.0289				
2,3,4,6,7,8-HxCDF	0.220	-	J	0.0220	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.132		-	0.0493	Total TCDF	0.201	-	J
1,2,3,4,6,7,8-HpCDF	2.67	-	J	0.0267	0.0404	Total PeCDF	1.36	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.274		-	0.0469	Total HxCDF	3.37	-	J
OCDF	5.01	-	J	0.00150	0.177	Total HpCDF	5.59	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	91.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	73.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	64.4	40.0 - 135	
13C-OCDD	53.6	40.0 - 135	
13C-2,3,7,8-TCDF	96.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	90.7	40.0 - 135	
13C-2,3,4,7,8-PeCDF	86.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	74.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	74.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	73.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	66.0	40.0 - 135	
13C-OCDF	60.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	105	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: DN
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-004-SA
Client ID: SB-7 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 4.98 g
% Solids: 78.44

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.0159

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0901		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.155		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.194		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.267		-	0.0680	Total TCDD	ND	0.0901	
1,2,3,7,8,9-HxCDD	ND	0.252		-	0.0666	Total PeCDD	ND	0.155	
1,2,3,4,6,7,8-HpCDD	1.08	-	J	0.0108	0.0927	Total HxCDD	ND	0.267	
OCDD	6.86	-	J	0.00206	0.272	Total HpCDD	2.44	-	J
2,3,7,8-TCDF	ND	0.0557		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0654		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0863		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0727		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0809		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0745		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.117		-	0.0493	Total TCDF	0.160	-	J
1,2,3,4,6,7,8-HpCDF	0.289	-	J	0.00289	0.0404	Total PeCDF	0.212	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.132		-	0.0469	Total HxCDF	0.429	-	J
OCDF	0.625	-	J	0.000188	0.177	Total HpCDF	0.678	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	86.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	70.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	55.3	40.0 - 135	
13C-OCDD	44.9	40.0 - 135	
13C-2,3,7,8-TCDF	101	40.0 - 135	
13C-1,2,3,7,8-PeCDF	91.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	71.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	68.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	71.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	59.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	58.6	40.0 - 135	
13C-OCDF	52.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	94.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/9/09

Reviewed By: DPJ
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-005-SA
Client ID: SB-8 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 4.69 g
% Solids: 86.03

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.000546

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.171		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.224		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.244		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.329		-	0.0680	Total TCDD	ND	0.171	
1,2,3,7,8,9-HxCDD	ND	0.314		-	0.0666	Total PeCDD	ND	0.224	
1,2,3,4,6,7,8-HpCDD	ND	0.556		-	0.0927	Total HxCDD	ND	0.329	
OGDD	1.82	-	J	0.000546	0.272	Total HpCDD	ND	0.556	
2,3,7,8-TCDF	ND	0.124		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.111		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.145		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.169		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.171		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.158		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.245		-	0.0493	Total TCDF	0.805	-	J
1,2,3,4,6,7,8-HpCDF	ND	0.119		-	0.0404	Total PeCDF	0.404	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.153		-	0.0469	Total HxCDF	ND	0.245	
OCDF	ND	0.328		-	0.177	Total HpCDF	ND	0.153	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	87.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	72.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	56.7	40.0 - 135	
13C-OCDD	54.7	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	92.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	75.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	76.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	74.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	62.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	65.5	40.0 - 135	
13C-OCDF	60.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: DN
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-006-SA
Client ID: SB-59 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 4.99 g
% Solids: 79.88

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.00800

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.106		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.129		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.159		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.226		-	0.0680	Total TCDD	ND	0.106	
1,2,3,7,8,9-HxCDD	ND	0.210		-	0.0666	Total PeCDD	ND	0.129	
1,2,3,4,6,7,8-HpCDD	0.698	-	J	0.00698	0.0927	Total HxCDD	ND	0.226	
OCDD	3.41	-	J	0.00102	0.272	Total HpCDD	1.56	-	J
2,3,7,8-TCDF	ND	0.0518		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.104		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.139		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.134		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.151		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.133		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.205		-	0.0493	Total TCDF	0.232	-	J
1,2,3,4,6,7,8-HpCDF	ND	0.190		-	0.0404	Total PeCDF	ND	0.139	
1,2,3,4,7,8,9-HpCDF	ND	0.229		-	0.0469	Total HxCDF	ND	0.205	
OCDF	ND	0.375		-	0.177	Total HpCDF	ND	0.229	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	89.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	83.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	71.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	70.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	53.7	40.0 - 135	
13C-OCDD	50.1	40.0 - 135	
13C-2,3,7,8-TCDF	89.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	84.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	80.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	73.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	57.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	64.3	40.0 - 135	
13C-OCDF	57.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	96.1	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: DPJ
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-008-SA
Client ID: SB-58 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 4.81 g
% Solids: 92.40

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 1.37

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.129		-	0.0252				
1,2,3,7,8-PeCDD	0.421	-	J	0.421	0.0457				
1,2,3,4,7,8-HxCDD	0.409	-	J	0.0409	0.0496				
1,2,3,6,7,8-HxCDD	1.49	-	J	0.149	0.0680	Total TCDD	0.953	-	J
1,2,3,7,8,9-HxCDD	1.08	-	J	0.108	0.0666	Total PeCDD	2.44	-	J
1,2,3,4,6,7,8-HpCDD	19.3	-		0.193	0.0927	Total HxCDD	9.17	-	
OCDD	128	-		0.0384	0.272	Total HpCDD	37.2	-	
2,3,7,8-TCDF	0.517	-	J	0.0517	0.0252				
1,2,3,7,8-PeCDF	0.247	-	J	0.00741	0.0365				
2,3,4,7,8-PeCDF	0.527	-	J	0.158	0.0486				
1,2,3,4,7,8-HxCDF	0.473	-	J	0.0473	0.0267				
1,2,3,6,7,8-HxCDF	0.417	-	J	0.0417	0.0289				
2,3,4,6,7,8-HxCDF	0.596	-	J	0.0596	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.192		-	0.0493	Total TCDF	6.53	-	
1,2,3,4,6,7,8-HpCDF	5.06	-	J	0.0506	0.0404	Total PeCDF	9.45	-	
1,2,3,4,7,8,9-HpCDF	0.424	-	J	0.00424	0.0469	Total HxCDF	8.96	-	
OCDF	10.4	-		0.00312	0.177	Total HpCDF	12.5	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	91.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	55.6	40.0 - 135	
13C-OCDD	51.3	40.0 - 135	
13C-2,3,7,8-TCDF	92.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	91.7	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	74.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	74.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	63.3	40.0 - 135	
13C-OCDF	58.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	100	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/9/09

Reviewed By: [illegible]
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-009-SA
Client ID: SB-17 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 5.10 g
% Solids: 91.57

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.127

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.164		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.159		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0917		-	0.0496				
1,2,3,6,7,8-HxCDD	0.368	-	J	0.0368	0.0680	Total TCDD	ND	0.164	
1,2,3,7,8,9-HxCDD	0.542	-	J	0.0542	0.0666	Total PeCDD	ND	0.159	
1,2,3,4,6,7,8-HpCDD	0.349	-	J	0.00349	0.0927	Total HxCDD	0.910	-	J
OCDD	2.01	-	J	0.000603	0.272	Total HpCDD	0.959	-	J
2,3,7,8-TCDF	ND	0.0606		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0847		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.117		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0674		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0715		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0672		-	0.0298				
1,2,3,7,8,9-HxCDF	0.318	-	J	0.0318	0.0493	Total TCDF	0.247	-	J
1,2,3,4,6,7,8-HpCDF	ND	0.110		-	0.0404	Total PeCDF	ND	0.117	
1,2,3,4,7,8,9-HpCDF	ND	0.138		-	0.0469	Total HxCDF	0.318	-	J
OCDF	ND	0.255		-	0.177	Total HpCDF	ND	0.138	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	98.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	76.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	75.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	58.4	40.0 - 135	
13C-OCDD	47.2	40.0 - 135	
13C-2,3,7,8-TCDF	99.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	100	40.0 - 135	
13C-2,3,4,7,8-PeCDF	93.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	81.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	81.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	77.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	82.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	64.7	40.0 - 135	
13C-OCDF	54.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.8	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: DN
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-010-SA
Client ID: SB-54 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 5.18 g
% Solids: 92.00

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.486

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.199		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.292		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.258		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.357		-	0.0680	Total TCDD	ND	0.199	
1,2,3,7,8,9-HxCDD	ND	0.336		-	0.0666	Total PeCDD	ND	0.292	
1,2,3,4,6,7,8-HpCDD	2.26	-	J	0.0226	0.0927	Total HxCDD	1.51	-	J
OCDD	12.0	-		0.00360	0.272	Total HpCDD	4.33	-	J
2,3,7,8-TCDF	0.361	-	J	0.0361	0.0252				
1,2,3,7,8-PeCDF	0.807	-	J	0.0242	0.0365				
2,3,4,7,8-PeCDF	0.573	-	J	0.172	0.0486				
1,2,3,4,7,8-HxCDF	0.793	-	J	0.0793	0.0267				
1,2,3,6,7,8-HxCDF	0.901	-	J	0.0901	0.0289				
2,3,4,6,7,8-HxCDF	0.378	-	J	0.0378	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.187		-	0.0493	Total TCDF	4.99	-	
1,2,3,4,6,7,8-HpCDF	2.00	-	J	0.0200	0.0404	Total PeCDF	9.66	-	
1,2,3,4,7,8,9-HpCDF	ND	0.106		-	0.0469	Total HxCDF	7.54	-	
OCDF	0.865	-	J	0.000260	0.177	Total HpCDF	2.80	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	91.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	75.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	78.2	40.0 - 135	
13C-OCDD	65.5	40.0 - 135	
13C-2,3,7,8-TCDF	97.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	89.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	90.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	87.8	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	81.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	82.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	89.1	40.0 - 135	
13C-OCDF	74.2	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	104	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/9/09

Reviewed By: [signature]
Date: 11/9/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5798-011-SA
Client ID: SB-15 @ 1 ft
Matrix: Soil
Batch No: X1876

Date Extracted: 11-05-2009
Date Received: 10-22-2009
Amount: 5.21 g
% Solids: 91.59

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-07-2009
2005 WHO TEQ: 0.0426

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.112		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.176		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.249		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.323		-	0.0680	Total TCDD	ND	0.112	
1,2,3,7,8,9-HxCDD	ND	0.314		-	0.0666	Total PeCDD	ND	0.176	
1,2,3,4,6,7,8-HpCDD	2.73	-	J	0.0273	0.0927	Total HxCDD	ND	0.323	
OCDD	21.4	-		0.00642	0.272	Total HpCDD	5.57	-	
2,3,7,8-TCDF	ND	0.103		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0827		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.109		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0851		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0905		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0847		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.131		-	0.0493	Total TCDF	0.194	-	J
1,2,3,4,6,7,8-HpCDF	0.822	-	J	0.00822	0.0404	Total PeCDF	0.889	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0989		-	0.0469	Total HxCDF	0.893	-	J
OCDF	2.21	-	J	0.000663	0.177	Total HpCDF	2.04	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	94.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	75.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	72.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	61.5	40.0 - 135	
13C-OCDD	45.4	40.0 - 135	
13C-2,3,7,8-TCDF	98.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	93.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	92.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	79.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	77.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	75.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	81.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	63.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	64.6	40.0 - 135	
13C-OCDF	52.4	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	94.5	50.0 - 150

Analyst: [signature]
Date: 11/9/09

Reviewed By: DAJ
Date: 11/9/09

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El Dorado Hills, CA 95762
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Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5798
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page_____ of_____

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1694
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☐ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☐ I/II ☐ III ☐ IV	☐ Hardcopy	
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☐ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-3 @ 1 ft	10-21-09	0915	S	1		X									D/F
2	-2		0920				HOLD									
3	-20		0927				X									
4	-7		1007													
5	-8		1045													
6	-59		1013													
7			1020				HOLD									5 ft
8	-58		1053				X									
9	-17		1100													
10	-54		1112													
11	-15		1119													
12	5 ft		1125				HOLD									
13																
14																
15																

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP 1060	10-21-09	1730	Kathy Zapp KZAPP	10-22-09	11:45

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

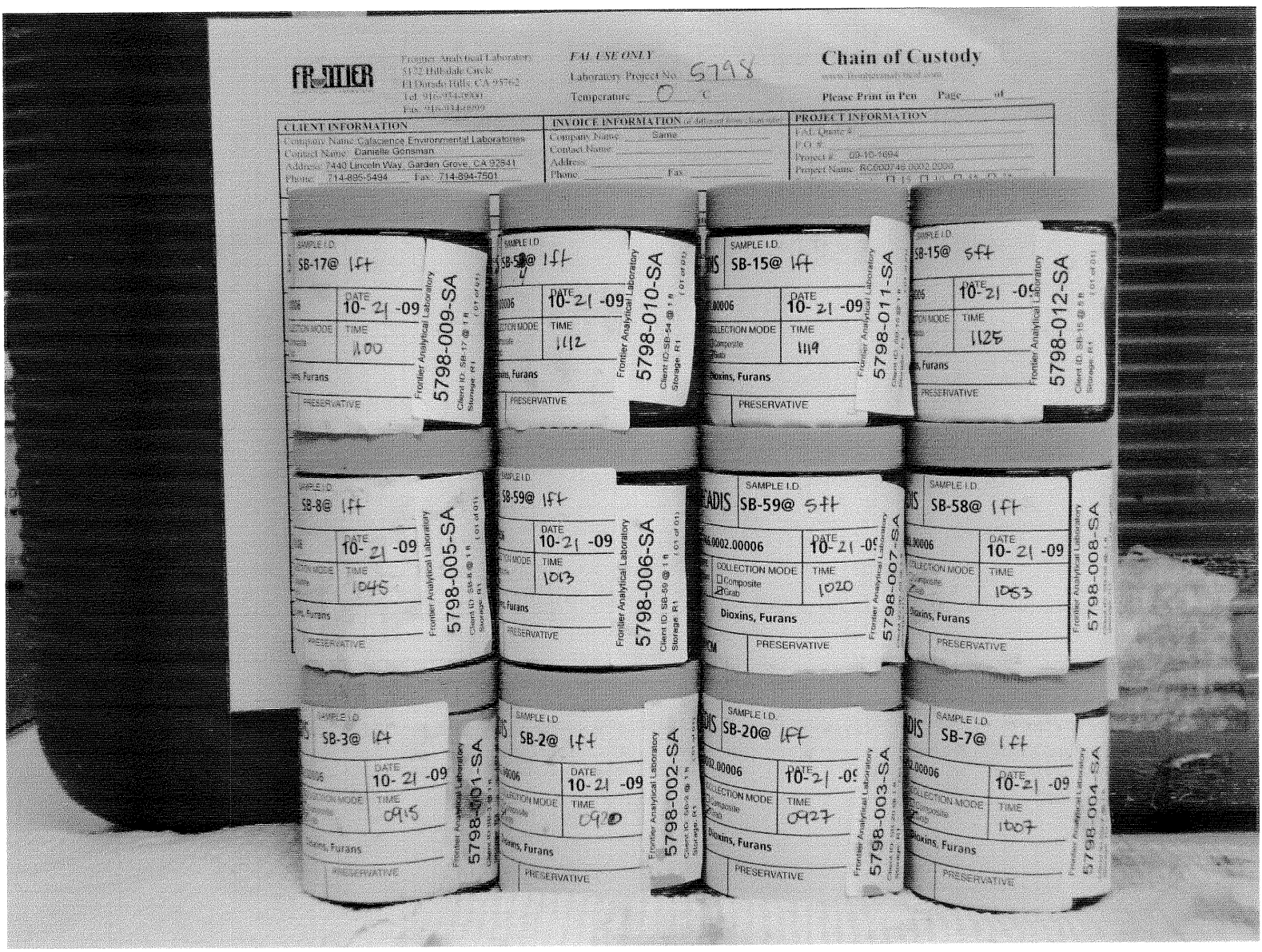
FAL Project ID: **5798**

Client:	Calscience
Client Project ID:	09-10-1694
Date Received:	10/22/2009
Time Received:	11:45 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	12
Duplicates:	0
Storage Location:	R1

Method of Delivery:	Other
Tracking Number:	512874567
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/20/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

5172 Hillsdale Circle • El Dorado Hills, CA 95762 • Tel (916) 934-0900 • Fax (916) 934-0999 • www.frontieranalytical.com

FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.00006

Project Location PG&E Radbock, Oakley

Laboratory Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK

09-10-1694

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	Low Level VOCs (USEPA 8260B/8260B) TBL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/8141A)	PP Metals (USEPA 6010B/7470/7471)	Diquat (USEPA 8270C)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Remarks	Total
SB-3@1ft	S	10/21/09 0915	1		X	X	X	X	X	X	X	X		6
SB-2@1ft		0920	2			X	X	X		hold				
SB-20@1ft		0927	3		X	X	X	X	X	X	X	X		
SB-7@1ft		1007	4	X	X	X	X	X	X	X	X	X		
SB-8@1ft		1045	5	X	X	X	X	X	X	X	X	X		
SB-59@1ft		1013	6	X	X	X	X	X	X	X	X			
SB-59@5ft		1020	7	X	X	X	X	X	X	hold	X			
SB-58@1ft		1053	8		X	hold	X	X	X	X	hold			
SB-17@1ft		1100	9	X	X	X	X	X	X	X	X			
SB-54@1ft		1112	10		X	hold	X	X	X	X	hold			
SB-15@1ft		1119	11	X	X	X	X	X	X	X	X			
SB-15@5ft		1125	12	X		X	X	X	X	hold	X			

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 72

Relinquished by: [signature]	Organization: ARCADIS	Date 10/21/09	Time ~~408~~ 1608	Seal Intact? Yes No N/A
Received by: Tomally CEL	Organization: CALscience	Date 10/21/09	Time 1615	
Relinquished by: [signature] TO 680	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1015	

Special Instructions/Remarks:

680 51287573 1

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: _____
Temperature: _____ °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen **Page_____ of_____**

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1694
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☐ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☐ I/II ☐ III ☐ IV	☐ Hardcopy	
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☐ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-3 @ 1 ft	10-21-09	0915	S	1		X									D/E
2	-2		0920				HOLD									
3	-20		0927				X									
4	-7		1007													
5	-8		1045													
6	-59		1013													
7			1020				HOLD									
8	-58		1053				X									
9	-17		1100													
10	-54		1112													
11	-15		1119													
12	5 ft		1125				HOLD									
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP / FAL	10-21-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1694

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** D.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☑ D.L 10/22/09
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 60m PB

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** D.L

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** AM

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** D.L

Calscience Environmental Laboratories, Inc.

November 05, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1721**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-53@1ft	**09-10-1721-1-A**	**10/21/09 12:11**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:18**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 1:55:43 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.83	0.750	1		Nickel	20.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.9	0.250	1		Thallium	ND	0.750	1	
Copper	8.16	0.500	1		Zinc	26.1	1.00	1	
Lead	4.43	0.500	1						

SB-57@1ft	**09-10-1721-2-A**	**10/21/09 12:22**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:20**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 1:57:59 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	3.06	0.750	1		Nickel	22.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	17.1	0.250	1		Thallium	ND	0.750	1	
Copper	9.05	0.500	1		Zinc	30.1	1.00	1	
Lead	4.71	0.500	1						

SB-56@1ft	**09-10-1721-3-A**	**10/21/09 12:29**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:21**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:00:15 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.43	0.750	1		Nickel	20.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.8	0.250	1		Thallium	ND	0.750	1	
Copper	8.21	0.500	1		Zinc	29.8	1.00	1	
Lead	5.97	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:22**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:02:29 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.40	0.750	1		Nickel	15.1	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.8	0.250	1		Thallium	ND	0.750	1	
Copper	7.38	0.500	1		Zinc	25.2	1.00	1	
Lead	7.92	0.500	1						

SB-55@5ft	**09-10-1721-5-A**	**10/21/09 12:44**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:24**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:04:38 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	4.32	0.750	1		Nickel	22.7	0.250	1	
Beryllium	0.309	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	20.8	0.250	1		Thallium	ND	0.750	1	
Copper	10.4	0.500	1		Zinc	30.9	1.00	1	
Lead	4.23	0.500	1						

SB-51@1ft	**09-10-1721-6-A**	**10/21/09 12:55**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:25**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:06:47 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.73	0.750	1		Nickel	21.7	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	17.9	0.250	1		Thallium	ND	0.750	1	
Copper	10.0	0.500	1		Zinc	29.7	1.00	1	
Lead	3.73	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@5ft	**09-10-1721-7-A**	**10/21/09 13:00**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:26**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:08:58 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	4.35	0.750	1		Nickel	23.8	0.250	1	
Beryllium	0.305	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	20.3	0.250	1		Thallium	ND	0.750	1	
Copper	10.7	0.500	1		Zinc	30.6	1.00	1	
Lead	3.96	0.500	1						

SB-52@1ft	**09-10-1721-8-A**	**10/21/09 13:10**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:27**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:11:08 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.34	0.750	1		Nickel	17.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.7	0.250	1		Thallium	ND	0.750	1	
Copper	7.69	0.500	1		Zinc	23.9	1.00	1	
Lead	4.48	0.500	1						

SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:31**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:13:20 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.77	0.750	1		Nickel	16.5	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.8	0.250	1		Thallium	ND	0.750	1	
Copper	4.42	0.500	1		Zinc	13.1	1.00	1	
Lead	1.67	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@1ft	**09-10-1721-10-A**	**10/21/09 15:00**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:32**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:15:32 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.20	0.750	1		Nickel	16.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.6	0.250	1		Thallium	ND	0.750	1	
Copper	4.69	0.500	1		Zinc	15.4	1.00	1	
Lead	1.76	0.500	1						

SB-61@5ft	**09-10-1721-11-A**	**10/21/09 15:08**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:34**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:22:15 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	4.24	0.750	1		Nickel	22.8	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	19.1	0.250	1		Thallium	ND	0.750	1	
Copper	8.69	0.500	1		Zinc	24.6	1.00	1	
Lead	3.24	0.500	1						

SB-67@1ft	**09-10-1721-12-A**	**10/21/09 15:15**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 13:35**	**091023L04**

Comment(s): -Mercury was analyzed on 10/26/2009 2:24:29 PM with batch 091026L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.11	0.750	1		Nickel	16.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.7	0.250	1		Thallium	ND	0.750	1	
Copper	5.27	0.500	1		Zinc	16.0	1.00	1	
Lead	1.86	0.500	1						

Method Blank	**099-04-007-6,619**	**N/A**	**Solid**	**Mercury**	**10/26/09**	**10/26/09 13:40**	**091026L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-12,867**	**N/A**	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09 12:40**	**091023L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-57@1ft	**09-10-1721-2-A**	**10/21/09 12:22**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	1.28	1.00	1		mg/kg

SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,273**	**N/A**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-56@1ft	**09-10-1721-3-A**	**10/21/09 12:29**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 04:19**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 04:35**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	61-145	

SB-55@5ft	**09-10-1721-5-A**	**10/21/09 12:44**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 04:51**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

SB-51@1ft	**09-10-1721-6-A**	**10/21/09 12:55**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 05:08**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@5ft	**09-10-1721-7-A**	**10/21/09 13:00**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 05:24**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	61-145	

SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 05:40**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	61-145	

SB-61@1ft	**09-10-1721-10-A**	**10/21/09 15:00**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 05:56**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

SB-61@5ft	**09-10-1721-11-A**	**10/21/09 15:08**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 06:12**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-67@1ft	**09-10-1721-12-A**	**10/21/09 15:15**	**Solid**	**GC 47**	**10/23/09**	**10/27/09 06:28**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	61-145	

Method Blank	**099-12-025-884**	**N/A**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 23:46**	**091023B10**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-56@1ft	**09-10-1721-3-A**	**10/21/09 12:29**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 19:48**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	83	42-150		2-Fluorobiphenyl	77	38-134	
2,4,6-Tribromophenol	81	36-132		p-Terphenyl-d14	86	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 20:18**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	55	42-120		Phenol-d6	57	46-118	
Nitrobenzene-d5	57	42-150		2-Fluorobiphenyl	56	38-134	
2,4,6-Tribromophenol	51	36-132		p-Terphenyl-d14	63	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@5ft	**09-10-1721-5-A**	**10/21/09 12:44**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 20:48**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	80	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@1ft	**09-10-1721-6-A**	**10/21/09 12:55**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 21:18**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	78	38-134	
2,4,6-Tribromophenol	81	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@5ft	**09-10-1721-7-A**	**10/21/09 13:00**	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09 21:49**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	42-120		Phenol-d6	81	46-118	
Nitrobenzene-d5	79	42-150		2-Fluorobiphenyl	75	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	83	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**GC/MS SS**	**10/24/09**	**10/29/09 00:27**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	83	46-118	
Nitrobenzene-d5	81	42-150		2-Fluorobiphenyl	79	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	105	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@1ft	**09-10-1721-10-A**	**10/21/09 15:00**	**Solid**	**GC/MS SS**	**10/24/09**	**10/29/09 00:52**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	74	42-120		Phenol-d6	78	46-118	
Nitrobenzene-d5	77	42-150		2-Fluorobiphenyl	75	38-134	
2,4,6-Tribromophenol	68	36-132		p-Terphenyl-d14	100	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@5ft	**09-10-1721-11-A**	**10/21/09 15:08**	**Solid**	**GC/MS SS**	**10/24/09**	**10/29/09 01:18**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	52	42-120		Phenol-d6	53	46-118	
Nitrobenzene-d5	53	42-150		2-Fluorobiphenyl	50	38-134	
2,4,6-Tribromophenol	46	36-132		p-Terphenyl-d14	65	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-972**	**N/A**	**Solid**	**GC/MS TT**	**10/24/09**	**10/27/09 12:12**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	85	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	78	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-67@1ft	**09-10-1721-12-A**	**10/21/09 15:15**	**Solid**	**GC/MS SS**	**10/24/09**	**10/29/09 01:44**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	42-120		Phenol-d6	86	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	82	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	108	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-972**	**N/A**	**Solid**	**GC/MS TT**	**10/24/09**	**10/27/09 12:12**	**091024L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	81	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	85	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	78	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8270C SIM PAHs
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-67@1ft	**09-10-1721-12-A**	**10/21/09 15:15**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/28/09 21:51**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	135	14-146		Nitrobenzene-d5	114	18-162	
p-Terphenyl-d14	73	34-148					

Method Blank	**099-06-010-386**	**N/A**	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09 13:06**	**091023L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	102	14-146		Nitrobenzene-d5	97	18-162	
p-Terphenyl-d14	105	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-53@1ft	**09-10-1721-1-A**	**10/21/09 12:11**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 14:22**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	1.8	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-135		2,4,5,6-Tetrachloro-m-Xylene	94	50-135	

SB-57@1ft	**09-10-1721-2-A**	**10/21/09 12:22**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 14:50**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	2.6	5.0	1.6	1	J
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	5.7	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	50-135		2,4,5,6-Tetrachloro-m-Xylene	67	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-56@1ft	**09-10-1721-3-A**	**10/21/09 12:29**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 15:18**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	6.2	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	20	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 15:47**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	13	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	34	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	118	50-135		2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@5ft	**09-10-1721-5-A**	**10/21/09 12:44**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 16:15**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	50-135		2,4,5,6-Tetrachloro-m-Xylene	90	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@1ft	**09-10-1721-6-A**	**10/21/09 12:55**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 16:43**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-135		2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@5ft	**09-10-1721-7-A**	**10/21/09 13:00**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 17:11**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

SB-52@1ft	**09-10-1721-8-A**	**10/21/09 13:10**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 17:39**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	123	50-135		2,4,5,6-Tetrachloro-m-Xylene	101	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 18:07**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

SB-61@1ft	**09-10-1721-10-A**	**10/21/09 15:00**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 18:35**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	50-135		2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@5ft	**09-10-1721-11-A**	**10/21/09 15:08**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 19:03**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	50-135		2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

Method Blank	**099-12-537-757**	**N/A**	**Solid**	**GC 37**	**10/23/09**	**10/27/09 21:24**	**091023L16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	50-135		2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-53@1ft	**09-10-1721-1-A**	**10/21/09 12:11**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 18:34**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	50-130		2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

SB-57@1ft	**09-10-1721-2-A**	**10/21/09 12:22**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 18:53**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	83	50-130		2,4,5,6-Tetrachloro-m-Xylene	64	50-130	

SB-56@1ft	**09-10-1721-3-A**	**10/21/09 12:29**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 19:12**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	50-130		2,4,5,6-Tetrachloro-m-Xylene	89	50-130	

SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 19:31**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	50-130		2,4,5,6-Tetrachloro-m-Xylene	90	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@5ft	**09-10-1721-5-A**	**10/21/09 12:44**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 19:51**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	105	50-130			2,4,5,6-Tetrachloro-m-Xylene	84	50-130		

SB-51@1ft	**09-10-1721-6-A**	**10/21/09 12:55**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 20:10**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	107	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		

SB-51@5ft	**09-10-1721-7-A**	**10/21/09 13:00**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 20:29**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	110	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

SB-52@1ft	**09-10-1721-8-A**	**10/21/09 13:10**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 20:48**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	108	50-130			2,4,5,6-Tetrachloro-m-Xylene	82	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 12:30**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	127	50-130		2,4,5,6-Tetrachloro-m-Xylene	106	50-130	

SB-61@1ft	**09-10-1721-10-A**	**10/21/09 15:00**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 21:07**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	133	50-130	2	2,4,5,6-Tetrachloro-m-Xylene	101	50-130	

SB-61@5ft	**09-10-1721-11-A**	**10/21/09 15:08**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 21:26**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	119	50-130		2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

SB-67@1ft	**09-10-1721-12-A**	**10/21/09 15:15**	**Solid**	**GC 31**	**10/23/09**	**10/27/09 21:45**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	50-130		2,4,5,6-Tetrachloro-m-Xylene	72	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-802**	**N/A**	**Solid**	**GC 31**	**10/23/09**	**10/26/09 11:25**	**091023L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	110	50-130		2,4,5,6-Tetrachloro-m-Xylene	105	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-53@1ft	**09-10-1721-1-A**	**10/21/09 12:11**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 03:50**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	114	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-57@1ft	**09-10-1721-2-A**	**10/21/09 12:22**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 04:40**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	102	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-56@1ft	**09-10-1721-3-A**	**10/21/09 12:29**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 05:29**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	102	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@1ft	**09-10-1721-4-A**	**10/21/09 12:35**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 06:19**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	112	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@5ft	**09-10-1721-5-A**	**10/21/09 12:44**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 07:08**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	106	30-130	

SB-51@1ft	**09-10-1721-6-A**	**10/21/09 12:55**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 07:58**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	107	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@5ft	**09-10-1721-7-A**	**10/21/09 13:00**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 08:47**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	94	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-52@1ft	**09-10-1721-8-A**	**10/21/09 13:10**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 09:37**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	120	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9@1ft	**09-10-1721-9-A**	**10/21/09 14:53**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 10:26**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	103	30-130	

SB-61@1ft	**09-10-1721-10-A**	**10/21/09 15:00**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 11:16**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	89	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@5ft	**09-10-1721-11-A**	**10/21/09 15:08**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 12:05**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	104	30-130	

Method Blank	**099-12-465-15**	**N/A**	**Solid**	**GC 26**	**10/26/09**	**10/28/09 18:46**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	101	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-56@1ft	**09-10-1721-3-D**	**10/21/09 12:29**	**Solid**	**GC/MS RR**	**10/21/09**	**10/24/09 20:27**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	88	48	0.956		c-1,3-Dichloropropene	ND	0.96	0.956	
Benzene	ND	0.96	0.956		t-1,3-Dichloropropene	ND	1.9	0.956	
Bromobenzene	ND	0.96	0.956		Ethylbenzene	ND	0.96	0.956	
Bromochloromethane	ND	1.9	0.956		2-Hexanone	ND	19	0.956	
Bromodichloromethane	ND	0.96	0.956		Isopropylbenzene	ND	0.96	0.956	
Bromoform	ND	4.8	0.956		p-Isopropyltoluene	ND	0.96	0.956	
Bromomethane	ND	19	0.956		Methylene Chloride	ND	9.6	0.956	
2-Butanone	ND	19	0.956		4-Methyl-2-Pentanone	ND	19	0.956	
n-Butylbenzene	ND	0.96	0.956		Naphthalene	ND	9.6	0.956	
sec-Butylbenzene	ND	0.96	0.956		n-Propylbenzene	ND	1.9	0.956	
tert-Butylbenzene	ND	0.96	0.956		Styrene	ND	0.96	0.956	
Carbon Disulfide	ND	9.6	0.956		1,1,1,2-Tetrachloroethane	ND	0.96	0.956	
Carbon Tetrachloride	ND	0.96	0.956		1,1,2,2-Tetrachloroethane	ND	1.9	0.956	
Chlorobenzene	ND	0.96	0.956		Tetrachloroethene	ND	0.96	0.956	
Chloroethane	ND	1.9	0.956		Toluene	ND	0.96	0.956	
Chloroform	ND	0.96	0.956		1,2,3-Trichlorobenzene	ND	1.9	0.956	
Chloromethane	ND	19	0.956		1,2,4-Trichlorobenzene	ND	1.9	0.956	
2-Chlorotoluene	ND	0.96	0.956		1,1,1-Trichloroethane	ND	0.96	0.956	
4-Chlorotoluene	ND	0.96	0.956		1,1,2-Trichloroethane	ND	0.96	0.956	
Dibromochloromethane	ND	1.9	0.956		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.6	0.956	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.956		Trichloroethene	ND	1.9	0.956	
1,2-Dibromoethane	ND	0.96	0.956		Trichlorofluoromethane	ND	9.6	0.956	
Dibromomethane	ND	0.96	0.956		1,2,3-Trichloropropane	ND	1.9	0.956	
1,2-Dichlorobenzene	ND	0.96	0.956		1,2,4-Trimethylbenzene	ND	1.9	0.956	
1,3-Dichlorobenzene	ND	0.96	0.956		1,3,5-Trimethylbenzene	ND	1.9	0.956	
1,4-Dichlorobenzene	ND	0.96	0.956		Vinyl Acetate	ND	9.6	0.956	
Dichlorodifluoromethane	ND	1.9	0.956		Vinyl Chloride	ND	0.96	0.956	
1,1-Dichloroethane	ND	0.96	0.956		p/m-Xylene	ND	1.9	0.956	
1,2-Dichloroethane	ND	0.96	0.956		o-Xylene	ND	0.96	0.956	
1,1-Dichloroethene	ND	0.96	0.956		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.956	
c-1,2-Dichloroethene	ND	0.96	0.956		Tert-Butyl Alcohol (TBA)	ND	19	0.956	
t-1,2-Dichloroethene	ND	0.96	0.956		Diisopropyl Ether (DIPE)	ND	0.96	0.956	
1,2-Dichloropropane	ND	0.96	0.956		Ethyl-t-Butyl Ether (ETBE)	ND	0.96	0.956	
1,3-Dichloropropane	ND	0.96	0.956		Tert-Amyl-Methyl Ether (TAME)	ND	0.96	0.956	
2,2-Dichloropropane	ND	4.8	0.956		Ethanol	ND	480	0.956	
1,1-Dichloropropene	ND	1.9	0.956						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	94	71-137		1,2-Dichloroethane-d4	101	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	95	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@1ft	**09-10-1721-4-D**	**10/21/09 12:35**	**Solid**	**GC/MS RR**	**10/21/09**	**10/24/09 20:54**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	94	47	0.933		c-1,3-Dichloropropene	ND	0.93	0.933	
Benzene	ND	0.93	0.933		t-1,3-Dichloropropene	ND	1.9	0.933	
Bromobenzene	ND	0.93	0.933		Ethylbenzene	ND	0.93	0.933	
Bromochloromethane	ND	1.9	0.933		2-Hexanone	ND	19	0.933	
Bromodichloromethane	ND	0.93	0.933		Isopropylbenzene	ND	0.93	0.933	
Bromoform	ND	4.7	0.933		p-Isopropyltoluene	ND	0.93	0.933	
Bromomethane	ND	19	0.933		Methylene Chloride	ND	9.3	0.933	
2-Butanone	ND	19	0.933		4-Methyl-2-Pentanone	ND	19	0.933	
n-Butylbenzene	ND	0.93	0.933		Naphthalene	ND	9.3	0.933	
sec-Butylbenzene	ND	0.93	0.933		n-Propylbenzene	ND	1.9	0.933	
tert-Butylbenzene	ND	0.93	0.933		Styrene	ND	0.93	0.933	
Carbon Disulfide	ND	9.3	0.933		1,1,1,2-Tetrachloroethane	ND	0.93	0.933	
Carbon Tetrachloride	ND	0.93	0.933		1,1,2,2-Tetrachloroethane	ND	1.9	0.933	
Chlorobenzene	ND	0.93	0.933		Tetrachloroethene	ND	0.93	0.933	
Chloroethane	ND	1.9	0.933		Toluene	ND	0.93	0.933	
Chloroform	ND	0.93	0.933		1,2,3-Trichlorobenzene	ND	1.9	0.933	
Chloromethane	ND	19	0.933		1,2,4-Trichlorobenzene	ND	1.9	0.933	
2-Chlorotoluene	ND	0.93	0.933		1,1,1-Trichloroethane	ND	0.93	0.933	
4-Chlorotoluene	ND	0.93	0.933		1,1,2-Trichloroethane	ND	0.93	0.933	
Dibromochloromethane	ND	1.9	0.933		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.933	
1,2-Dibromo-3-Chloropropane	ND	4.7	0.933		Trichloroethene	ND	1.9	0.933	
1,2-Dibromoethane	ND	0.93	0.933		Trichlorofluoromethane	ND	9.3	0.933	
Dibromomethane	ND	0.93	0.933		1,2,3-Trichloropropane	ND	1.9	0.933	
1,2-Dichlorobenzene	ND	0.93	0.933		1,2,4-Trimethylbenzene	ND	1.9	0.933	
1,3-Dichlorobenzene	ND	0.93	0.933		1,3,5-Trimethylbenzene	ND	1.9	0.933	
1,4-Dichlorobenzene	ND	0.93	0.933		Vinyl Acetate	ND	9.3	0.933	
Dichlorodifluoromethane	ND	1.9	0.933		Vinyl Chloride	ND	0.93	0.933	
1,1-Dichloroethane	ND	0.93	0.933		p/m-Xylene	ND	1.9	0.933	
1,2-Dichloroethane	ND	0.93	0.933		o-Xylene	ND	0.93	0.933	
1,1-Dichloroethene	ND	0.93	0.933		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.933	
c-1,2-Dichloroethene	ND	0.93	0.933		Tert-Butyl Alcohol (TBA)	ND	19	0.933	
t-1,2-Dichloroethene	ND	0.93	0.933		Diisopropyl Ether (DIPE)	ND	0.93	0.933	
1,2-Dichloropropane	ND	0.93	0.933		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.933	
1,3-Dichloropropane	ND	0.93	0.933		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.933	
2,2-Dichloropropane	ND	4.7	0.933		Ethanol	ND	470	0.933	
1,1-Dichloropropene	ND	1.9	0.933						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	93	71-137		1,2-Dichloroethane-d4	99	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	94	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-55@5ft	**09-10-1721-5-D**	**10/21/09 12:44**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 18:58**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	100	58	1.16		c-1,3-Dichloropropene	ND	1.2	1.16	
Benzene	ND	1.2	1.16		t-1,3-Dichloropropene	ND	2.3	1.16	
Bromobenzene	ND	1.2	1.16		Ethylbenzene	ND	1.2	1.16	
Bromochloromethane	ND	2.3	1.16		2-Hexanone	ND	23	1.16	
Bromodichloromethane	ND	1.2	1.16		Isopropylbenzene	ND	1.2	1.16	
Bromoform	ND	5.8	1.16		p-Isopropyltoluene	ND	1.2	1.16	
Bromomethane	ND	23	1.16		Methylene Chloride	ND	12	1.16	
2-Butanone	ND	23	1.16		4-Methyl-2-Pentanone	ND	23	1.16	
n-Butylbenzene	ND	1.2	1.16		Naphthalene	ND	12	1.16	
sec-Butylbenzene	ND	1.2	1.16		n-Propylbenzene	ND	2.3	1.16	
tert-Butylbenzene	ND	1.2	1.16		Styrene	ND	1.2	1.16	
Carbon Disulfide	ND	12	1.16		1,1,1,2-Tetrachloroethane	ND	1.2	1.16	
Carbon Tetrachloride	ND	1.2	1.16		1,1,2,2-Tetrachloroethane	ND	2.3	1.16	
Chlorobenzene	ND	1.2	1.16		Tetrachloroethene	ND	1.2	1.16	
Chloroethane	ND	2.3	1.16		Toluene	ND	1.2	1.16	
Chloroform	ND	1.2	1.16		1,2,3-Trichlorobenzene	ND	2.3	1.16	
Chloromethane	ND	23	1.16		1,2,4-Trichlorobenzene	ND	2.3	1.16	
2-Chlorotoluene	ND	1.2	1.16		1,1,1-Trichloroethane	ND	1.2	1.16	
4-Chlorotoluene	ND	1.2	1.16		1,1,2-Trichloroethane	ND	1.2	1.16	
Dibromochloromethane	ND	2.3	1.16		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.16	
1,2-Dibromo-3-Chloropropane	ND	5.8	1.16		Trichloroethene	ND	2.3	1.16	
1,2-Dibromoethane	ND	1.2	1.16		Trichlorofluoromethane	ND	12	1.16	
Dibromomethane	ND	1.2	1.16		1,2,3-Trichloropropane	ND	2.3	1.16	
1,2-Dichlorobenzene	ND	1.2	1.16		1,2,4-Trimethylbenzene	ND	2.3	1.16	
1,3-Dichlorobenzene	ND	1.2	1.16		1,3,5-Trimethylbenzene	ND	2.3	1.16	
1,4-Dichlorobenzene	ND	1.2	1.16		Vinyl Acetate	ND	12	1.16	
Dichlorodifluoromethane	ND	2.3	1.16		Vinyl Chloride	ND	1.2	1.16	
1,1-Dichloroethane	ND	1.2	1.16		p/m-Xylene	ND	2.3	1.16	
1,2-Dichloroethane	ND	1.2	1.16		o-Xylene	ND	1.2	1.16	
1,1-Dichloroethene	ND	1.2	1.16		Methyl-t-Butyl Ether (MTBE)	ND	2.3	1.16	
c-1,2-Dichloroethene	ND	1.2	1.16		Tert-Butyl Alcohol (TBA)	ND	23	1.16	
t-1,2-Dichloroethene	ND	1.2	1.16		Diisopropyl Ether (DIPE)	ND	1.2	1.16	
1,2-Dichloropropane	ND	1.2	1.16		Ethyl-t-Butyl Ether (ETBE)	ND	1.2	1.16	
1,3-Dichloropropane	ND	1.2	1.16		Tert-Amyl-Methyl Ether (TAME)	ND	1.2	1.16	
2,2-Dichloropropane	ND	5.8	1.16		Ethanol	ND	580	1.16	
1,1-Dichloropropene	ND	2.3	1.16						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	83	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@1ft	**09-10-1721-6-D**	**10/21/09 12:55**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 19:25**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	95	43	0.853		c-1,3-Dichloropropene	ND	0.85	0.853	
Benzene	ND	0.85	0.853		t-1,3-Dichloropropene	ND	1.7	0.853	
Bromobenzene	ND	0.85	0.853		Ethylbenzene	ND	0.85	0.853	
Bromochloromethane	ND	1.7	0.853		2-Hexanone	ND	17	0.853	
Bromodichloromethane	ND	0.85	0.853		Isopropylbenzene	ND	0.85	0.853	
Bromoform	ND	4.3	0.853		p-Isopropyltoluene	ND	0.85	0.853	
Bromomethane	ND	17	0.853		Methylene Chloride	ND	8.5	0.853	
2-Butanone	ND	17	0.853		4-Methyl-2-Pentanone	ND	17	0.853	
n-Butylbenzene	ND	0.85	0.853		Naphthalene	ND	8.5	0.853	
sec-Butylbenzene	ND	0.85	0.853		n-Propylbenzene	ND	1.7	0.853	
tert-Butylbenzene	ND	0.85	0.853		Styrene	ND	0.85	0.853	
Carbon Disulfide	ND	8.5	0.853		1,1,1,2-Tetrachloroethane	ND	0.85	0.853	
Carbon Tetrachloride	ND	0.85	0.853		1,1,2,2-Tetrachloroethane	ND	1.7	0.853	
Chlorobenzene	ND	0.85	0.853		Tetrachloroethene	ND	0.85	0.853	
Chloroethane	ND	1.7	0.853		Toluene	ND	0.85	0.853	
Chloroform	ND	0.85	0.853		1,2,3-Trichlorobenzene	ND	1.7	0.853	
Chloromethane	ND	17	0.853		1,2,4-Trichlorobenzene	ND	1.7	0.853	
2-Chlorotoluene	ND	0.85	0.853		1,1,1-Trichloroethane	ND	0.85	0.853	
4-Chlorotoluene	ND	0.85	0.853		1,1,2-Trichloroethane	ND	0.85	0.853	
Dibromochloromethane	ND	1.7	0.853		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.853	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.853		Trichloroethene	ND	1.7	0.853	
1,2-Dibromoethane	ND	0.85	0.853		Trichlorofluoromethane	ND	8.5	0.853	
Dibromomethane	ND	0.85	0.853		1,2,3-Trichloropropane	ND	1.7	0.853	
1,2-Dichlorobenzene	ND	0.85	0.853		1,2,4-Trimethylbenzene	ND	1.7	0.853	
1,3-Dichlorobenzene	ND	0.85	0.853		1,3,5-Trimethylbenzene	ND	1.7	0.853	
1,4-Dichlorobenzene	ND	0.85	0.853		Vinyl Acetate	ND	8.5	0.853	
Dichlorodifluoromethane	ND	1.7	0.853		Vinyl Chloride	ND	0.85	0.853	
1,1-Dichloroethane	ND	0.85	0.853		p/m-Xylene	ND	1.7	0.853	
1,2-Dichloroethane	ND	0.85	0.853		o-Xylene	ND	0.85	0.853	
1,1-Dichloroethene	ND	0.85	0.853		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.853	
c-1,2-Dichloroethene	ND	0.85	0.853		Tert-Butyl Alcohol (TBA)	ND	17	0.853	
t-1,2-Dichloroethene	ND	0.85	0.853		Diisopropyl Ether (DIPE)	ND	0.85	0.853	
1,2-Dichloropropane	ND	0.85	0.853		Ethyl-t-Butyl Ether (ETBE)	ND	0.85	0.853	
1,3-Dichloropropane	ND	0.85	0.853		Tert-Amyl-Methyl Ether (TAME)	ND	0.85	0.853	
2,2-Dichloropropane	ND	4.3	0.853		Ethanol	ND	430	0.853	
1,1-Dichloropropene	ND	1.7	0.853						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	80	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-51@5ft	**09-10-1721-7-D**	**10/21/09 13:00**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 19:52**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	88	59	1.18		c-1,3-Dichloropropene	ND	1.2	1.18	
Benzene	ND	1.2	1.18		t-1,3-Dichloropropene	ND	2.4	1.18	
Bromobenzene	ND	1.2	1.18		Ethylbenzene	ND	1.2	1.18	
Bromochloromethane	ND	2.4	1.18		2-Hexanone	ND	24	1.18	
Bromodichloromethane	ND	1.2	1.18		Isopropylbenzene	ND	1.2	1.18	
Bromoform	ND	5.9	1.18		p-Isopropyltoluene	ND	1.2	1.18	
Bromomethane	ND	24	1.18		Methylene Chloride	ND	12	1.18	
2-Butanone	ND	24	1.18		4-Methyl-2-Pentanone	ND	24	1.18	
n-Butylbenzene	ND	1.2	1.18		Naphthalene	ND	12	1.18	
sec-Butylbenzene	ND	1.2	1.18		n-Propylbenzene	ND	2.4	1.18	
tert-Butylbenzene	ND	1.2	1.18		Styrene	ND	1.2	1.18	
Carbon Disulfide	ND	12	1.18		1,1,1,2-Tetrachloroethane	ND	1.2	1.18	
Carbon Tetrachloride	ND	1.2	1.18		1,1,2,2-Tetrachloroethane	ND	2.4	1.18	
Chlorobenzene	ND	1.2	1.18		Tetrachloroethene	ND	1.2	1.18	
Chloroethane	ND	2.4	1.18		Toluene	ND	1.2	1.18	
Chloroform	ND	1.2	1.18		1,2,3-Trichlorobenzene	ND	2.4	1.18	
Chloromethane	ND	24	1.18		1,2,4-Trichlorobenzene	ND	2.4	1.18	
2-Chlorotoluene	ND	1.2	1.18		1,1,1-Trichloroethane	ND	1.2	1.18	
4-Chlorotoluene	ND	1.2	1.18		1,1,2-Trichloroethane	ND	1.2	1.18	
Dibromochloromethane	ND	2.4	1.18		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.18	
1,2-Dibromo-3-Chloropropane	ND	5.9	1.18		Trichloroethene	ND	2.4	1.18	
1,2-Dibromoethane	ND	1.2	1.18		Trichlorofluoromethane	ND	12	1.18	
Dibromomethane	ND	1.2	1.18		1,2,3-Trichloropropane	ND	2.4	1.18	
1,2-Dichlorobenzene	ND	1.2	1.18		1,2,4-Trimethylbenzene	ND	2.4	1.18	
1,3-Dichlorobenzene	ND	1.2	1.18		1,3,5-Trimethylbenzene	ND	2.4	1.18	
1,4-Dichlorobenzene	ND	1.2	1.18		Vinyl Acetate	ND	12	1.18	
Dichlorodifluoromethane	ND	2.4	1.18		Vinyl Chloride	ND	1.2	1.18	
1,1-Dichloroethane	ND	1.2	1.18		p/m-Xylene	ND	2.4	1.18	
1,2-Dichloroethane	ND	1.2	1.18		o-Xylene	ND	1.2	1.18	
1,1-Dichloroethene	ND	1.2	1.18		Methyl-t-Butyl Ether (MTBE)	ND	2.4	1.18	
c-1,2-Dichloroethene	ND	1.2	1.18		Tert-Butyl Alcohol (TBA)	ND	24	1.18	
t-1,2-Dichloroethene	ND	1.2	1.18		Diisopropyl Ether (DIPE)	ND	1.2	1.18	
1,2-Dichloropropane	ND	1.2	1.18		Ethyl-t-Butyl Ether (ETBE)	ND	1.2	1.18	
1,3-Dichloropropane	ND	1.2	1.18		Tert-Amyl-Methyl Ether (TAME)	ND	1.2	1.18	
2,2-Dichloropropane	ND	5.9	1.18		Ethanol	ND	590	1.18	
1,1-Dichloropropene	ND	2.4	1.18						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9@1ft	**09-10-1721-9-D**	**10/21/09 14:53**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 20:20**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	59	52	1.04		c-1,3-Dichloropropene	ND	1.0	1.04	
Benzene	ND	1.0	1.04		t-1,3-Dichloropropene	ND	2.1	1.04	
Bromobenzene	ND	1.0	1.04		Ethylbenzene	ND	1.0	1.04	
Bromochloromethane	ND	2.1	1.04		2-Hexanone	ND	21	1.04	
Bromodichloromethane	ND	1.0	1.04		Isopropylbenzene	ND	1.0	1.04	
Bromoform	ND	5.2	1.04		p-Isopropyltoluene	ND	1.0	1.04	
Bromomethane	ND	21	1.04		Methylene Chloride	ND	10	1.04	
2-Butanone	ND	21	1.04		4-Methyl-2-Pentanone	ND	21	1.04	
n-Butylbenzene	ND	1.0	1.04		Naphthalene	ND	10	1.04	
sec-Butylbenzene	ND	1.0	1.04		n-Propylbenzene	ND	2.1	1.04	
tert-Butylbenzene	ND	1.0	1.04		Styrene	ND	1.0	1.04	
Carbon Disulfide	ND	10	1.04		1,1,1,2-Tetrachloroethane	ND	1.0	1.04	
Carbon Tetrachloride	ND	1.0	1.04		1,1,2,2-Tetrachloroethane	ND	2.1	1.04	
Chlorobenzene	ND	1.0	1.04		Tetrachloroethene	ND	1.0	1.04	
Chloroethane	ND	2.1	1.04		Toluene	ND	1.0	1.04	
Chloroform	ND	1.0	1.04		1,2,3-Trichlorobenzene	ND	2.1	1.04	
Chloromethane	ND	21	1.04		1,2,4-Trichlorobenzene	ND	2.1	1.04	
2-Chlorotoluene	ND	1.0	1.04		1,1,1-Trichloroethane	ND	1.0	1.04	
4-Chlorotoluene	ND	1.0	1.04		1,1,2-Trichloroethane	ND	1.0	1.04	
Dibromochloromethane	ND	2.1	1.04		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.04	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.04		Trichloroethene	ND	2.1	1.04	
1,2-Dibromoethane	ND	1.0	1.04		Trichlorofluoromethane	ND	10	1.04	
Dibromomethane	ND	1.0	1.04		1,2,3-Trichloropropane	ND	2.1	1.04	
1,2-Dichlorobenzene	ND	1.0	1.04		1,2,4-Trimethylbenzene	ND	2.1	1.04	
1,3-Dichlorobenzene	ND	1.0	1.04		1,3,5-Trimethylbenzene	ND	2.1	1.04	
1,4-Dichlorobenzene	ND	1.0	1.04		Vinyl Acetate	ND	10	1.04	
Dichlorodifluoromethane	ND	2.1	1.04		Vinyl Chloride	ND	1.0	1.04	
1,1-Dichloroethane	ND	1.0	1.04		p/m-Xylene	ND	2.1	1.04	
1,2-Dichloroethane	ND	1.0	1.04		o-Xylene	ND	1.0	1.04	
1,1-Dichloroethene	ND	1.0	1.04		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.04	
c-1,2-Dichloroethene	ND	1.0	1.04		Tert-Butyl Alcohol (TBA)	ND	21	1.04	
t-1,2-Dichloroethene	ND	1.0	1.04		Diisopropyl Ether (DIPE)	ND	1.0	1.04	
1,2-Dichloropropane	ND	1.0	1.04		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.04	
1,3-Dichloropropane	ND	1.0	1.04		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.04	
2,2-Dichloropropane	ND	5.2	1.04		Ethanol	ND	520	1.04	
1,1-Dichloropropene	ND	2.1	1.04						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	84	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@1ft	**09-10-1721-10-D**	**10/21/09 15:00**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 20:47**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	58	55	1.1		c-1,3-Dichloropropene	ND	1.1	1.1	
Benzene	ND	1.1	1.1		t-1,3-Dichloropropene	ND	2.2	1.1	
Bromobenzene	ND	1.1	1.1		Ethylbenzene	ND	1.1	1.1	
Bromochloromethane	ND	2.2	1.1		2-Hexanone	ND	22	1.1	
Bromodichloromethane	ND	1.1	1.1		Isopropylbenzene	ND	1.1	1.1	
Bromoform	ND	5.5	1.1		p-Isopropyltoluene	ND	1.1	1.1	
Bromomethane	ND	22	1.1		Methylene Chloride	ND	11	1.1	
2-Butanone	ND	22	1.1		4-Methyl-2-Pentanone	ND	22	1.1	
n-Butylbenzene	ND	1.1	1.1		Naphthalene	ND	11	1.1	
sec-Butylbenzene	ND	1.1	1.1		n-Propylbenzene	ND	2.2	1.1	
tert-Butylbenzene	ND	1.1	1.1		Styrene	ND	1.1	1.1	
Carbon Disulfide	ND	11	1.1		1,1,1,2-Tetrachloroethane	ND	1.1	1.1	
Carbon Tetrachloride	ND	1.1	1.1		1,1,2,2-Tetrachloroethane	ND	2.2	1.1	
Chlorobenzene	ND	1.1	1.1		Tetrachloroethene	ND	1.1	1.1	
Chloroethane	ND	2.2	1.1		Toluene	ND	1.1	1.1	
Chloroform	ND	1.1	1.1		1,2,3-Trichlorobenzene	ND	2.2	1.1	
Chloromethane	ND	22	1.1		1,2,4-Trichlorobenzene	ND	2.2	1.1	
2-Chlorotoluene	ND	1.1	1.1		1,1,1-Trichloroethane	ND	1.1	1.1	
4-Chlorotoluene	ND	1.1	1.1		1,1,2-Trichloroethane	ND	1.1	1.1	
Dibromochloromethane	ND	2.2	1.1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.1	
1,2-Dibromo-3-Chloropropane	ND	5.5	1.1		Trichloroethene	ND	2.2	1.1	
1,2-Dibromoethane	ND	1.1	1.1		Trichlorofluoromethane	ND	11	1.1	
Dibromomethane	ND	1.1	1.1		1,2,3-Trichloropropane	ND	2.2	1.1	
1,2-Dichlorobenzene	ND	1.1	1.1		1,2,4-Trimethylbenzene	ND	2.2	1.1	
1,3-Dichlorobenzene	ND	1.1	1.1		1,3,5-Trimethylbenzene	ND	2.2	1.1	
1,4-Dichlorobenzene	ND	1.1	1.1		Vinyl Acetate	ND	11	1.1	
Dichlorodifluoromethane	ND	2.2	1.1		Vinyl Chloride	ND	1.1	1.1	
1,1-Dichloroethane	ND	1.1	1.1		p/m-Xylene	ND	2.2	1.1	
1,2-Dichloroethane	ND	1.1	1.1		o-Xylene	ND	1.1	1.1	
1,1-Dichloroethene	ND	1.1	1.1		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.1	
c-1,2-Dichloroethene	ND	1.1	1.1		Tert-Butyl Alcohol (TBA)	ND	22	1.1	
t-1,2-Dichloroethene	ND	1.1	1.1		Diisopropyl Ether (DIPE)	ND	1.1	1.1	
1,2-Dichloropropane	ND	1.1	1.1		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.1	
1,3-Dichloropropane	ND	1.1	1.1		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.1	
2,2-Dichloropropane	ND	5.5	1.1		Ethanol	ND	550	1.1	
1,1-Dichloropropene	ND	2.2	1.1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	127	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-61@5ft	**09-10-1721-11-D**	**10/21/09 15:08**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 21:14**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	71-137		1,2-Dichloroethane-d4	130	58-160	
1,4-Bromofluorobenzene	84	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 11

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-67@1ft	**09-10-1721-12-D**	**10/21/09 15:15**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 21:42**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	100	52	1.05		c-1,3-Dichloropropene	ND	1.0	1.05	
Benzene	ND	1.0	1.05		t-1,3-Dichloropropene	ND	2.1	1.05	
Bromobenzene	ND	1.0	1.05		Ethylbenzene	ND	1.0	1.05	
Bromochloromethane	ND	2.1	1.05		2-Hexanone	ND	21	1.05	
Bromodichloromethane	ND	1.0	1.05		Isopropylbenzene	ND	1.0	1.05	
Bromoform	ND	5.2	1.05		p-Isopropyltoluene	ND	1.0	1.05	
Bromomethane	ND	21	1.05		Methylene Chloride	ND	10	1.05	
2-Butanone	ND	21	1.05		4-Methyl-2-Pentanone	ND	21	1.05	
n-Butylbenzene	ND	1.0	1.05		Naphthalene	ND	10	1.05	
sec-Butylbenzene	ND	1.0	1.05		n-Propylbenzene	ND	2.1	1.05	
tert-Butylbenzene	ND	1.0	1.05		Styrene	ND	1.0	1.05	
Carbon Disulfide	ND	10	1.05		1,1,1,2-Tetrachloroethane	ND	1.0	1.05	
Carbon Tetrachloride	ND	1.0	1.05		1,1,2,2-Tetrachloroethane	ND	2.1	1.05	
Chlorobenzene	ND	1.0	1.05		Tetrachloroethene	ND	1.0	1.05	
Chloroethane	ND	2.1	1.05		Toluene	ND	1.0	1.05	
Chloroform	ND	1.0	1.05		1,2,3-Trichlorobenzene	ND	2.1	1.05	
Chloromethane	ND	21	1.05		1,2,4-Trichlorobenzene	ND	2.1	1.05	
2-Chlorotoluene	ND	1.0	1.05		1,1,1-Trichloroethane	ND	1.0	1.05	
4-Chlorotoluene	ND	1.0	1.05		1,1,2-Trichloroethane	ND	1.0	1.05	
Dibromochloromethane	ND	2.1	1.05		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.05	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.05		Trichloroethene	ND	2.1	1.05	
1,2-Dibromoethane	ND	1.0	1.05		Trichlorofluoromethane	ND	10	1.05	
Dibromomethane	ND	1.0	1.05		1,2,3-Trichloropropane	ND	2.1	1.05	
1,2-Dichlorobenzene	ND	1.0	1.05		1,2,4-Trimethylbenzene	ND	2.1	1.05	
1,3-Dichlorobenzene	ND	1.0	1.05		1,3,5-Trimethylbenzene	ND	2.1	1.05	
1,4-Dichlorobenzene	ND	1.0	1.05		Vinyl Acetate	ND	10	1.05	
Dichlorodifluoromethane	ND	2.1	1.05		Vinyl Chloride	ND	1.0	1.05	
1,1-Dichloroethane	ND	1.0	1.05		p/m-Xylene	ND	2.1	1.05	
1,2-Dichloroethane	ND	1.0	1.05		o-Xylene	ND	1.0	1.05	
1,1-Dichloroethene	ND	1.0	1.05		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05	
c-1,2-Dichloroethene	ND	1.0	1.05		Tert-Butyl Alcohol (TBA)	ND	21	1.05	
t-1,2-Dichloroethene	ND	1.0	1.05		Diisopropyl Ether (DIPE)	ND	1.0	1.05	
1,2-Dichloropropane	ND	1.0	1.05		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.05	
1,3-Dichloropropane	ND	1.0	1.05		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.05	
2,2-Dichloropropane	ND	5.2	1.05		Ethanol	ND	520	1.05	
1,1-Dichloropropene	ND	2.1	1.05						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	129	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,392**	**N/A**	**Solid**	**GC/MS RR**	**10/24/09**	**10/24/09 14:32**	**091024L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	71-137		1,2-Dichloroethane-d4	116	58-160	
1,4-Bromofluorobenzene	76	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,401**	**N/A**	**Solid**	**GC/MS RR**	**10/26/09**	**10/26/09 14:52**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	71-137		1,2-Dichloroethane-d4	107	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-61@5ft	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	15	22	50-115	37	0-20	3,4
Arsenic	128	129	75-125	1	0-20	3
Beryllium	120	124	75-125	3	0-20	
Cadmium	111	117	75-125	5	0-20	
Chromium	143	150	75-125	3	0-20	3
Copper	134	134	75-125	0	0-20	3
Lead	119	123	75-125	3	0-20	
Nickel	136	138	75-125	1	0-20	3
Selenium	103	108	75-125	5	0-20	
Silver	124	130	75-125	5	0-20	3
Thallium	113	120	75-125	6	0-20	
Zinc	150	140	75-125	4	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3050B
Method:	EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
SB-61@5ft	**Solid**	**ICP 5300**	**10/23/09**	**10/28/09**	**091023S04**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	80	81	75-125	1	0-20	
Arsenic	94	90	75-125	4	0-20	
Beryllium	96	96	75-125	0	0-20	
Cadmium	90	90	75-125	1	0-20	
Chromium	87	87	75-125	0	0-20	
Copper	95	96	75-125	1	0-20	
Lead	91	91	75-125	1	0-20	
Nickel	88	88	75-125	0	0-20	
Selenium	87	85	75-125	2	0-20	
Silver	104	104	75-125	0	0-20	
Thallium	92	92	75-125	0	0-20	
Zinc	82	82	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-56@1ft	**Solid**	**GC 47**	**10/23/09**	**10/27/09**	**091023S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	79	91	64-130	15	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-57@1ft	**Solid**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01A**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	105	107	22-148	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-61@5ft	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	104	71-137	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1694-7	**Solid**	**GC/MS TT**	**10/24/09**	**10/28/09**	**091024S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	80	68	57-123	17	0-16	4
2-Chlorophenol	78	66	57-111	18	0-17	4
1,4-Dichlorobenzene	81	67	49-127	18	0-20	
N-Nitroso-di-n-propylamine	83	70	54-144	16	0-17	
1,2,4-Trichlorobenzene	82	68	42-132	18	0-20	
Naphthalene	74	62	50-150	17	0-20	
4-Chloro-3-Methylphenol	75	65	50-128	14	0-17	
Dimethyl Phthalate	70	59	50-150	17	0-20	
Acenaphthylene	74	62	50-150	18	0-20	
Acenaphthene	80	67	49-133	17	0-18	
4-Nitrophenol	62	62	30-144	0	0-21	
2,4-Dinitrotoluene	77	65	50-128	16	0-18	
Fluorene	72	61	50-150	17	0-20	
Pentachlorophenol	63	52	29-113	19	0-22	
Pyrene	81	71	47-149	13	0-20	
Butyl Benzyl Phthalate	76	64	50-150	18	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1693-13	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09**	**091023S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	114	114	21-133	1	0-25	
2-Methylnaphthalene	106	104	21-140	1	0-25	
1-Methylnaphthalene	118	119	40-160	1	0-25	
Acenaphthylene	112	109	33-145	3	0-25	
Acenaphthene	114	109	40-106	4	0-25	3
Fluorene	118	113	59-121	4	0-25	
Phenanthrene	124	119	54-120	4	0-25	3
Anthracene	90	87	27-133	4	0-25	
Fluoranthene	125	123	26-137	2	0-25	
Pyrene	110	106	6-156	3	0-25	
Benzo (a) Anthracene	142	123	33-143	14	0-25	
Chrysene	133	132	17-168	1	0-25	
Benzo (k) Fluoranthene	113	102	24-159	11	0-25	
Benzo (b) Fluoranthene	108	95	24-159	14	0-25	
Benzo (a) Pyrene	103	93	17-163	10	0-25	
Indeno (1,2,3-c,d) Pyrene	120	118	0-171	2	0-25	
Dibenz (a,h) Anthracene	91	89	0-227	2	0-25	
Benzo (g,h,i) Perylene	91	80	0-219	13	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-9@1ft	**Solid**	**GC 37**	**10/23/09**	**10/27/09**	**091023S16**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	103	122	50-135	17	0-25	
Gamma-BHC	104	123	50-135	17	0-25	
Beta-BHC	109	131	50-135	19	0-25	
Heptachlor	106	125	50-135	16	0-25	
Delta-BHC	108	134	50-135	21	0-25	
Aldrin	103	122	50-135	16	0-25	
Heptachlor Epoxide	92	104	50-135	13	0-25	
Endosulfan I	105	122	50-135	15	0-25	
Dieldrin	106	127	50-135	18	0-25	
4,4'-DDE	115	141	50-135	20	0-25	3
Endrin	122	146	50-135	18	0-25	3
Endrin Aldehyde	129	154	50-135	18	0-25	3
4,4'-DDD	115	133	50-135	14	0-25	
Endosulfan II	111	132	50-135	18	0-25	
4,4'-DDT	121	137	50-135	12	0-25	3
Endosulfan Sulfate	110	130	50-135	17	0-25	
Methoxychlor	111	132	50-135	18	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-9@1ft	**Solid**	**GC 31**	**10/23/09**	**10/27/09**	**091023S17**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	148	104	50-135	35	0-20	3,4
Aroclor-1260	102	120	50-135	17	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-9@1ft	**Solid**	**GC 26**	**10/26/09**	**10/28/09**	**091026S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	112	111	30-130	1	0-30	
Bolstar	97	97	30-130	1	0-30	
Chlorpyrifos	100	99	30-130	0	0-30	
Coumaphos	103	104	30-130	1	0-30	
Diazinon	110	112	30-130	1	0-30	
Disulfoton	101	102	30-130	1	0-30	
Ethoprop	111	111	30-130	0	0-30	
Fensulfothion	100	103	30-130	2	0-30	
Fenthion	104	104	30-130	0	0-30	
Merphos	99	101	30-130	2	0-30	
Methyl Parathion	104	104	30-130	1	0-30	
Phorate	136	137	30-130	1	0-30	3
Ronnel	96	96	30-130	1	0-30	
Stirophos	109	110	30-130	1	0-30	
Tokuthion	99	100	30-130	1	0-30	
Trichloronate	106	106	30-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,867	**Solid**	**ICP 5300**	**10/23/09**	**10/26/09**	**091023L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	101	100	80-120	73-127	1	0-20	
Arsenic	104	104	80-120	73-127	0	0-20	
Beryllium	104	101	80-120	73-127	2	0-20	
Cadmium	106	103	80-120	73-127	2	0-20	
Chromium	104	102	80-120	73-127	2	0-20	
Copper	107	105	80-120	73-127	1	0-20	
Lead	107	107	80-120	73-127	0	0-20	
Nickel	108	108	80-120	73-127	0	0-20	
Selenium	96	96	80-120	73-127	0	0-20	
Silver	115	113	80-120	73-127	2	0-20	
Thallium	108	108	80-120	73-127	0	0-20	
Zinc	107	104	80-120	73-127	2	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1721
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-884	**Solid**	**GC 47**	**10/23/09**	**10/27/09**	**091023B10**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	96	103	75-123	8	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1721
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,273	**Solid**	**FLAA2**	**10/29/09**	**NONE**	**091029L01A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	26.5	106	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1721
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,619	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	100	100	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-386	**Solid**	**GC/MS AAA**	**10/23/09**	**10/26/09**	**091023L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	101	99	21-133	2-152	2	0-25	
2-Methylnaphthalene	76	75	21-140	1-160	0	0-25	
1-Methylnaphthalene	73	91	40-160	20-180	22	0-25	
Acenaphthylene	80	80	33-145	14-164	0	0-25	
Acenaphthene	96	96	48-108	38-118	1	0-11	
Fluorene	95	94	59-121	49-131	1	0-25	
Phenanthrene	95	95	54-120	43-131	0	0-25	
Anthracene	60	61	27-133	9-151	1	0-25	
Fluoranthene	89	89	26-137	8-156	1	0-25	
Pyrene	84	84	28-106	15-119	0	0-16	
Benzo (a) Anthracene	84	84	33-143	15-161	0	0-25	
Chrysene	88	80	17-168	0-193	10	0-25	
Benzo (k) Fluoranthene	109	108	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	88	87	24-159	2-182	1	0-25	
Benzo (a) Pyrene	83	82	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	111	109	0-171	0-200	2	0-25	
Dibenz (a,h) Anthracene	85	83	0-219	0-256	2	0-25	
Benzo (g,h,i) Perylene	84	82	0-227	0-265	3	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-972	**Solid**	**GC/MS TT**	**10/24/09**	**10/27/09**	**091024L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	91	90	59-125	48-136	1	0-15	
2-Chlorophenol	88	87	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	89	88	61-121	51-131	1	0-21	
N-Nitroso-di-n-propylamine	80	80	64-136	52-148	1	0-15	
1,2,4-Trichlorobenzene	91	91	58-118	48-128	0	0-18	
Naphthalene	84	84	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	89	88	61-121	51-131	0	0-14	
Dimethyl Phthalate	85	85	0-112	0-131	0	0-20	
Acenaphthylene	77	77	33-145	14-164	0	0-20	
Acenaphthene	85	84	59-125	48-136	1	0-15	
4-Nitrophenol	88	88	38-152	19-171	0	0-31	
2,4-Dinitrotoluene	91	91	51-141	36-156	0	0-16	
Fluorene	83	82	59-121	49-131	1	0-20	
Pentachlorophenol	77	77	38-116	25-129	1	0-20	
Pyrene	80	81	51-141	36-156	0	0-14	
Butyl Benzyl Phthalate	83	82	0-152	0-177	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-757	**Solid**	**GC 37**	**10/23/09**	**10/27/09**	**091023L16**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	103	97	50-135	36-149	6	0-25	
Gamma-BHC	103	97	50-135	36-149	6	0-25	
Beta-BHC	106	98	50-135	36-149	8	0-25	
Heptachlor	104	97	50-135	36-149	7	0-25	
Delta-BHC	102	94	50-135	36-149	8	0-25	
Aldrin	104	97	50-135	36-149	7	0-25	
Heptachlor Epoxide	103	96	50-135	36-149	8	0-25	
Endosulfan I	105	99	50-135	36-149	6	0-25	
Dieldrin	105	97	50-135	36-149	8	0-25	
4,4'-DDE	106	95	50-135	36-149	11	0-25	
Endrin	110	99	50-135	36-149	10	0-25	
Endrin Aldehyde	108	102	50-135	36-149	6	0-25	
4,4'-DDD	108	99	50-135	36-149	9	0-25	
Endosulfan II	104	97	50-135	36-149	7	0-25	
4,4'-DDT	109	101	50-135	36-149	8	0-25	
Endosulfan Sulfate	105	98	50-135	36-149	7	0-25	
Methoxychlor	103	96	50-135	36-149	7	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1721
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-802	**Solid**	**GC 31**	**10/23/09**	**10/26/09**	**091023L17**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	92	96	50-135	4	0-20	
Aroclor-1260	103	102	50-135	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-15	**Solid**	**GC 26**	**10/26/09**	**10/28/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	114	112	30-130	13-147	2	0-30	
Bolstar	94	95	30-130	13-147	1	0-30	
Chlorpyrifos	98	98	30-130	13-147	1	0-30	
Coumaphos	103	104	30-130	13-147	1	0-30	
Diazinon	109	110	30-130	13-147	1	0-30	
Disulfoton	99	101	30-130	13-147	2	0-30	
Ethoprop	108	110	30-130	13-147	1	0-30	
Fensulfothion	100	100	30-130	13-147	0	0-30	
Fenthion	102	103	30-130	13-147	1	0-30	
Merphos	97	99	30-130	13-147	1	0-30	
Methyl Parathion	102	102	30-130	13-147	0	0-30	
Phorate	129	128	30-130	13-147	1	0-30	
Ronnel	94	95	30-130	13-147	1	0-30	
Stirophos	107	107	30-130	13-147	0	0-30	
Tokuthion	97	98	30-130	13-147	1	0-30	
Trichloronate	103	105	30-130	13-147	1	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,392	**Solid**	**GC/MS RR**	**10/24/09**	**10/24/09**	**091024L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	97	85-115	80-120	2	0-11	
Carbon Tetrachloride	92	90	68-134	57-145	2	0-14	
Chlorobenzene	105	101	83-119	77-125	4	0-9	
1,2-Dibromoethane	106	106	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	103	102	57-135	44-148	1	0-10	
1,1-Dichloroethene	90	89	72-120	64-128	1	0-10	
Ethylbenzene	111	106	80-120	73-127	4	0-20	
Toluene	99	96	67-127	57-137	2	0-10	
Trichloroethene	96	93	88-112	84-116	2	0-9	
Vinyl Chloride	89	91	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	91	93	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	103	98	31-145	12-164	5	0-23	
Diisopropyl Ether (DIPE)	93	93	74-128	65-137	0	0-10	
Ethyl-t-Butyl Ether (ETBE)	91	93	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	99	99	81-123	74-130	0	0-10	
Ethanol	100	106	44-152	26-170	6	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1721
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,401	**Solid**	**GC/MS RR**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	97	85-115	80-120	1	0-11	
Carbon Tetrachloride	94	92	68-134	57-145	2	0-14	
Chlorobenzene	103	103	83-119	77-125	0	0-9	
1,2-Dibromoethane	103	105	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	102	103	57-135	44-148	0	0-10	
1,1-Dichloroethene	92	90	72-120	64-128	2	0-10	
Ethylbenzene	109	109	80-120	73-127	1	0-20	
Toluene	99	97	67-127	57-137	1	0-10	
Trichloroethene	96	96	88-112	84-116	0	0-9	
Vinyl Chloride	87	84	57-129	45-141	4	0-16	
Methyl-t-Butyl Ether (MTBE)	91	92	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	101	99	31-145	12-164	3	0-23	
Diisopropyl Ether (DIPE)	92	92	74-128	65-137	0	0-10	
Ethyl-t-Butyl Ether (ETBE)	92	94	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	100	100	81-123	74-130	1	0-10	
Ethanol	139	115	44-152	26-170	19	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1721

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name PC0007746.0002.00006

Project Location PG&E Radback, Oakley

Laboratory Oak Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK / AV

09-10-1721

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	PRD (USEPA 8015B)	PCBs (USEPA 8082)	Low Level VOCs (USEPA 8260B (8015))	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141)	PP Metals (USEPA 6010B/7470A/7471)	Dioxins+ Furans (USEPA 8290)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C (8310))	Remarks	Total
SB-53@ 1'	S	10/21/09 1241	1		X	HOLD		X	X	X	X	HOLD			6
SB-57@ 1'		1222	2		X	HOLD	X	X	X	X	X	HOLD			6
SB-56 @ 1ft		1229	3	X	X	X		X	X	X	X	X			6
SB-55 @ 1ft		1235	4	X	X	X	X	X	X	X	X	X			6
SB-55@ 5ft		1244	5	X	X	X		X	X	X	HOLD	X			6
SB-51@ 1ft		1255	6	X	X	X		X	X	X	X	X			6
SB-51 @ 5ft		1300	7	X	X	X		X	X	X	HOLD	X			6
SB-52 @ 1ft		1310	8		X	HOLD		X	X	X	X	HOLD			6
SB-9 @ 1ft		1453	9	X	X	X	X	X	X	X		X			6
SB-60 @ 1ft		1500	10	X	X	X		X	X	X	X	X			6
SB-61 @ 5ft		1508	11	X	X	X		X	X	X	X	X			6
SB-67@ 1ft		1515	12	X	X	X				X		X	X		5

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers ~~48~~ → 71 AV 10/21

Relinquished by: [signature]	Organization: ARCADIS	Date 10/21/09	Time 1608	Seal Intact? Yes No N/A	
Received by: Tom O'Reilly CEL	Organization: OAKSCIENCE	Date 10/21/09	Time 1615		
Relinquished by: [signature] to GSO	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A	
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1015		

Special Instructions/Remarks:
GSO 5128757 32

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No. _____
Temperature: _____ °C

Chain of Custody

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION
Company Name: Calscience Environmental Laboratories
Contact Name: Danielle Gonsman
Address: 7440 Lincoln Way, Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501
Email: dgonsman@calscience.com

INVOICE INFORMATION (if different from client info)
Company Name: Same
Contact Name:
Address:
Phone: Fax:
Email:

PROJECT INFORMATION
FAL Quote #:
P.O. #:
Project #: 09-10-1721
Project Name: RC000746.0002.0006
TAT (business days): ☐ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker
☐ Other: ____ ☐ Custom: Contact FAL

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

****CONGENERS**
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl_4-Cl_8)

****TEQ**
☐ 1998 WHO
☐ 2005 WHO
☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-53 @ 1 ft	10/21-09	1211	S	1		X		X							D/F
2	-57		1222													
3	-56		1229													
4	-55	18 ft	1235													
5		5 ft	1244				HOLD									
6	-51	1 ft	1255				X									
7		5 ft	1300				HOLD									
8	-52	1 ft	1310				X									
9	-61		1500													
10		5 ft	1509													
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP PE	10/21-09	1730			

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1721

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.5 °C - 0.2 °C (CF) = 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** AM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® ☑ 2oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** AM

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** DL

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** DL

FRONTIER
ANALYTICAL LABORATORY

November 5, 2009

FAL Project ID: 5799

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5799**. This corresponds to your project number **09-10-1721**. Ten soil samples were received on 10/22/2009 in good condition. Per your instructions, samples 5799-005-SA and 5799-007-SA (Calscience IDs: SB-55 @ 5ft and SB-51 @ 5ft respectively) were placed on hold. The remaining eight samples were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's (WHO) toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5799**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5799**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Vice President

FRONTIER ANALYTICAL LABORATORY
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ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5799**

Received on: **10/22/2009** Project Due: **11/13/2009** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5799-001-SA	0	09-10-1721	SB-53 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	12:11 pm	11/20/2009
5799-002-SA	0	09-10-1721	SB-57 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	12:22 pm	11/20/2009
5799-003-SA	0	09-10-1721	SB-56 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	12:29 pm	11/20/2009
5799-004-SA	0	09-10-1721	SB-55 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	12:36 pm	11/20/2009
5799-005-SA	0	09-10-1721	SB-55 @ 5 ft	EPA 8290 D/F	Soil	10/21/2009	12:44 pm	11/20/2009
5799-006-SA	0	09-10-1721	SB-51 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	12:55 pm	11/20/2009
5799-007-SA	0	09-10-1721	SB-51 @ 5 ft	EPA 8290 D/F	Soil	10/21/2009	01:00 pm	11/20/2009
5799-008-SA	0	09-10-1721	SB-52 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	01:10 pm	11/20/2009
5799-009-SA	0	09-10-1721	SB-61 @ 1 ft	EPA 8290 D/F	Soil	10/21/2009	03:00 pm	11/20/2009
5799-010-SA	0	09-10-1721	SB-61 @ 5 ft	EPA 8290 D/F	Soil	10/21/2009	03:08 pm	11/20/2009

FAL Sample ID	Notes
5799-001-SA	'Using sample ID from COC for our tracking purposes. '
5799-002-SA	'Using sample ID from COC for our tracking purposes. '
5799-004-SA	'Using hand written sampling time from jar label for our tracking purposes. '
5799-005-SA	'HOLD'
5799-006-SA	'Using sample ID from COC for our tracking purposes. '
5799-007-SA	'HOLD'

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0735		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.117		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.122		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.157		-	0.0680	Total TCDD	ND	0.0735	
1,2,3,7,8,9-HxCDD	ND	0.153		-	0.0666	Total PeCDD	ND	0.117	
1,2,3,4,6,7,8-HpCDD	ND	0.357		-	0.0927	Total HxCDD	ND	0.157	
OCDD	ND	0.898		-	0.272	Total HpCDD	ND	0.357	
2,3,7,8-TCDF	ND	0.0425		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0620		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0794		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0737		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0809		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0707		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.116		-	0.0493	Total TCDF	ND	0.0425	
1,2,3,4,6,7,8-HpCDF	ND	0.123		-	0.0404	Total PeCDF	ND	0.0794	
1,2,3,4,7,8,9-HpCDF	ND	0.147		-	0.0469	Total HxCDF	ND	0.116	
OCDF	ND	0.313		-	0.177	Total HpCDF	ND	0.147	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	89.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	99.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	74.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	75.3	40.0 - 135	
13C-OCDD	63.4	40.0 - 135	
13C-2,3,7,8-TCDF	92.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	74.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	73.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	72.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	78.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	78.4	40.0 - 135	
13C-OCDF	67.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	93.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 11-03-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	8.98	7.00 - 13.0	
1,2,3,7,8-PeCDD	48.3	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	46.6	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	44.9	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	46.6	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	42.6	35.0 - 65.0	
OCDD	84.1	70.0 - 130	
2,3,7,8-TCDF	8.10	7.00 - 13.0	
1,2,3,7,8-PeCDF	45.9	35.0 - 65.0	
2,3,4,7,8-PeCDF	44.9	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	44.6	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	44.1	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	44.8	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	43.4	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	43.2	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	44.1	35.0 - 65.0	
OCDF	83.1	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	94.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	71.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	70.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	73.1	40.0 - 135	
13C-OCDD	61.0	40.0 - 135	
13C-2,3,7,8-TCDF	92.4	40.0 - 135	
13C-1,2,3,7,8-PeCDF	86.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	86.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	66.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	77.3	40.0 - 135	
13C-OCDF	66.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	100	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-001-SA
Client ID: SB-53 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 5.03 g
% Solids: 90.98

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.00907

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0963		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.0908		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.140		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.194		-	0.0680	Total TCDD	ND	0.0963	
1,2,3,7,8,9-HxCDD	ND	0.183		-	0.0666	Total PeCDD	ND	0.0908	
1,2,3,4,6,7,8-HpCDD	0.751	-	J	0.00751	0.0927	Total HxCDD	ND	0.194	
OCDD	5.21	-	J	0.00156	0.272	Total HpCDD	1.54	-	J
2,3,7,8-TCDF	ND	0.0482		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0866		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.112		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.113		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.120		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.109		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.173		-	0.0493	Total TCDF	ND	0.121	
1,2,3,4,6,7,8-HpCDF	ND	0.179		-	0.0404	Total PeCDF	ND	0.112	
1,2,3,4,7,8,9-HpCDF	ND	0.220		-	0.0469	Total HxCDF	ND	0.173	
OCDF	ND	0.350		-	0.177	Total HpCDF	ND	0.220	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	108	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	79.6	40.0 - 135	
13C-OCDD	68.3	40.0 - 135	
13C-2,3,7,8-TCDF	99.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	95.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	97.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	79.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	79.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	77.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	83.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	74.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	82.7	40.0 - 135	
13C-OCDF	72.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	109	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-002-SA
Client ID: SB-57 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 4.98 g
% Solids: 78.08

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.102		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.122		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.169		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.217		-	0.0680	Total TCDD	ND	0.102	
1,2,3,7,8,9-HxCDD	ND	0.212		-	0.0666	Total PeCDD	ND	0.122	
1,2,3,4,6,7,8-HpCDD	ND	0.390		-	0.0927	Total HxCDD	ND	0.217	
OCDD	ND	1.25		-	0.272	Total HpCDD	ND	0.390	
2,3,7,8-TCDF	ND	0.0526		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0726		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0963		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.117		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.129		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.115		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.169		-	0.0493	Total TCDF	ND	0.165	
1,2,3,4,6,7,8-HpCDF	ND	0.139		-	0.0404	Total PeCDF	ND	0.0963	
1,2,3,4,7,8,9-HpCDF	ND	0.156		-	0.0469	Total HxCDF	ND	0.169	
OCDF	ND	0.213		-	0.177	Total HpCDF	ND	0.156	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	107	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	71.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	71.4	40.0 - 135	
13C-OCDD	62.6	40.0 - 135	
13C-2,3,7,8-TCDF	96.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	100	40.0 - 135	
13C-2,3,4,7,8-PeCDF	97.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	66.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	77.5	40.0 - 135	
13C-OCDF	66.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	107	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: _____
Date: 11/4/09

Reviewed By: _____
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-003-SA
Client ID: SB-55 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 5.04 g
% Solids: 82.67

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.0250

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0468		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.167		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.178		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.238		-	0.0680	Total TCDD	0.351	-	J
1,2,3,7,8,9-HxCDD	ND	0.227		-	0.0666	Total PeCDD	ND	0.167	
1,2,3,4,6,7,8-HpCDD	0.531	-	J	0.00531	0.0927	Total HxCDD	ND	0.238	
OCDD	2.64	-	J	0.000792	0.272	Total HpCDD	1.16	-	J
2,3,7,8-TCDF	0.189	-	J	0.0189	0.0252				
1,2,3,7,8-PeCDF	ND	0.105		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.141		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0925		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.101		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0868		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.144		-	0.0493	Total TCDF	2.12	-	
1,2,3,4,6,7,8-HpCDF	ND	0.195		-	0.0404	Total PeCDF	1.21	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.242		-	0.0469	Total HxCDF	0.632	-	J
OCDF	ND	0.337		-	0.177	Total HpCDF	ND	0.242	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	110	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	77.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.7	40.0 - 135	
13C-OCDD	68.5	40.0 - 135	
13C-2,3,7,8-TCDF	97.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	102	40.0 - 135	
13C-2,3,4,7,8-PeCDF	101	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	75.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	76.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	75.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	72.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	78.2	40.0 - 135	
13C-OCDF	71.3	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	112	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: DNJ
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-004-SA
Client ID: SB-56 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 5.01 g
% Solids: 72.99

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.289

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0431		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.200		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0814		-	0.0496				
1,2,3,6,7,8-HxCDD	0.325	-	J	0.0325	0.0680	Total TCDD	0.370	-	J
1,2,3,7,8,9-HxCDD	0.414	-	J	0.0414	0.0666	Total PeCDD	ND	0.200	
1,2,3,4,6,7,8-HpCDD	1.35	-	J	0.0135	0.0927	Total HxCDD	1.74	-	J
OCDD	7.86	-	J	0.00236	0.272	Total HpCDD	2.92	-	J
2,3,7,8-TCDF	0.244	-	J	0.0244	0.0252				
1,2,3,7,8-PeCDF	0.174	-	J	0.00522	0.0365				
2,3,4,7,8-PeCDF	0.288	-	J	0.0864	0.0486				
1,2,3,4,7,8-HxCDF	0.158	-	J	0.0158	0.0267				
1,2,3,6,7,8-HxCDF	0.167	-	J	0.0167	0.0289				
2,3,4,6,7,8-HxCDF	0.191	-	J	0.0191	0.0298				
1,2,3,7,8,9-HxCDF	0.258	-	J	0.0258	0.0493	Total TCDF	2.91	-	
1,2,3,4,6,7,8-HpCDF	0.561	-	J	0.00561	0.0404	Total PeCDF	3.67	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0828		-	0.0469	Total HxCDF	2.53	-	J
OCDF	0.699	-	J	0.000210	0.177	Total HpCDF	0.936	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	99.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	117	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	78.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	79.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	82.2	40.0 - 135	
13C-OCDD	72.0	40.0 - 135	
13C-2,3,7,8-TCDF	101	40.0 - 135	
13C-1,2,3,7,8-PeCDF	109	40.0 - 135	
13C-2,3,4,7,8-PeCDF	105	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	79.8	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	79.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	85.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	77.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	83.4	40.0 - 135	
13C-OCDF	74.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	113	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/5/09

Reviewed By: DNJ
Date: 11/5/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-006-SA
Client ID: SB-51 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 4.98 g
% Solids: 91.38

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.00503

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.108		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.114		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.184		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.246		-	0.0680	Total TCDD	ND	0.108	
1,2,3,7,8,9-HxCDD	ND	0.235		-	0.0666	Total PeCDD	ND	0.114	
1,2,3,4,6,7,8-HpCDD	0.432	-	J	0.00432	0.0927	Total HxCDD	ND	0.246	
OCDD	2.38	-	J	0.000714	0.272	Total HpCDD	0.969	-	J
2,3,7,8-TCDF	ND	0.0419		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0489		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0669		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0901		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0952		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0846		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.133		-	0.0493	Total TCDF	0.269	-	J
1,2,3,4,6,7,8-HpCDF	ND	0.0932		-	0.0404	Total PeCDF	ND	0.0669	
1,2,3,4,7,8,9-HpCDF	ND	0.118		-	0.0469	Total HxCDF	ND	0.133	
OCDF	ND	0.294		-	0.177	Total HpCDF	ND	0.118	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	113	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	75.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	76.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.9	40.0 - 135	
13C-OCDD	63.2	40.0 - 135	
13C-2,3,7,8-TCDF	97.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	108	40.0 - 135	
13C-2,3,4,7,8-PeCDF	102	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	75.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	76.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	76.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	71.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	75.4	40.0 - 135	
13C-OCDF	66.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	108	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-008-SA
Client ID: SB-52 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 5.04 g
% Solids: 80.51

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.000594

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.101		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.116		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.152		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.217		-	0.0680	Total TCDD	ND	0.101	
1,2,3,7,8,9-HxCDD	ND	0.201		-	0.0666	Total PeCDD	ND	0.116	
1,2,3,4,6,7,8-HpCDD	ND	0.528		-	0.0927	Total HxCDD	ND	0.217	
OCDD	1.98	-	J	0.000594	0.272	Total HpCDD	ND	0.528	
2,3,7,8-TCDF	ND	0.114		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0730		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0990		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0694		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0723		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0658		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.112		-	0.0493	Total TCDF	ND	0.114	
1,2,3,4,6,7,8-HpCDF	ND	0.114		-	0.0404	Total PeCDF	ND	0.0990	
1,2,3,4,7,8,9-HpCDF	ND	0.133		-	0.0469	Total HxCDF	ND	0.112	
OCDF	ND	0.205		-	0.177	Total HpCDF	ND	0.133	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.4	40.0 - 135	
13C-1,2,3,7,8-PeCDD	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	75.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.3	40.0 - 135	
13C-OCDD	67.1	40.0 - 135	
13C-2,3,7,8-TCDF	98.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	99.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	94.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	79.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	80.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	77.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.0	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	77.3	40.0 - 135	
13C-OCDF	69.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.8	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-009-SA
Client ID: SB-61 @ 1 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 5.06 g
% Solids: 77.33

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-03-2009
2005 WHO TEQ: 0.000378

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0951		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.105		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.119		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.159		-	0.0680	Total TCDD	ND	0.0951	
1,2,3,7,8,9-HxCDD	ND	0.152		-	0.0666	Total PeCDD	ND	0.105	
1,2,3,4,6,7,8-HpCDD	ND	0.315		-	0.0927	Total HxCDD	ND	0.159	
OCDD	1.26	-	J	0.000378	0.272	Total HpCDD	ND	0.315	
2,3,7,8-TCDF	ND	0.0354		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0487		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0632		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0432		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0455		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0411		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0651		-	0.0493	Total TCDF	ND	0.0354	
1,2,3,4,6,7,8-HpCDF	ND	0.0678		-	0.0404	Total PeCDF	ND	0.0632	
1,2,3,4,7,8,9-HpCDF	ND	0.0804		-	0.0469	Total HxCDF	ND	0.0651	
OCDF	ND	0.206		-	0.177	Total HpCDF	ND	0.0804	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	111	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	77.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	76.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.7	40.0 - 135	
13C-OCDD	69.3	40.0 - 135	
13C-2,3,7,8-TCDF	96.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	104	40.0 - 135	
13C-2,3,4,7,8-PeCDF	102	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	76.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	75.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	76.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	80.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	72.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.0	40.0 - 135	
13C-OCDF	71.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	102	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5799-010-SA
Client ID: SB-61 @ 5 ft
Matrix: Soil
Batch No: X1872

Date Extracted: 11-02-2009
Date Received: 10-22-2009
Amount: 5.02 g
% Solids: 72.85

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-04-2009
2005 WHO TEQ: 0.000378

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0550		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.0949		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0845		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.119		-	0.0680	Total TCDD	ND	0.0550	
1,2,3,7,8,9-HxCDD	ND	0.111		-	0.0666	Total PeCDD	ND	0.0949	
1,2,3,4,6,7,8-HpCDD	ND	0.248		-	0.0927	Total HxCDD	ND	0.226	
OCDD	1.26	-	J	0.000378	0.272	Total HpCDD	0.555	-	J
2,3,7,8-TCDF	ND	0.0312		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0432		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0547		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0463		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0503		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0452		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0716		-	0.0493	Total TCDF	ND	0.0312	
1,2,3,4,6,7,8-HpCDF	ND	0.0714		-	0.0404	Total PeCDF	ND	0.0547	
1,2,3,4,7,8,9-HpCDF	ND	0.0846		-	0.0469	Total HxCDF	ND	0.0716	
OCDF	ND	0.175		-	0.177	Total HpCDF	ND	0.0846	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 135	
13C-1,2,3,7,8-PeCDD	116	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	79.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	78.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	77.9	40.0 - 135	
13C-OCDD	68.2	40.0 - 135	
13C-2,3,7,8-TCDF	106	40.0 - 135	
13C-1,2,3,7,8-PeCDF	106	40.0 - 135	
13C-2,3,4,7,8-PeCDF	108	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	80.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	80.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	79.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	84.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	74.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.1	40.0 - 135	
13C-OCDF	70.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	111	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/4/09

Reviewed By: [signature]
Date: 11/4/09

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5799
Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1721
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☐ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-53 @ 1 ft	10-21-09	1211	S	1		X		X							D/F X
2	-57 ⊥	⊥	1222	⊥	⊥		⊥									X
3	-56 ⊥	⊥	1229	⊥	⊥		⊥									⊥
4	-55 1.5 ft	⊥	1235	⊥	⊥		⊥									12:36
5	⊥ 5 ft	⊥	1244	⊥	⊥		HOLD									⊥
6	-51 1 ft	⊥	1255	⊥	⊥		X									X
7	⊥ 5 ft	⊥	1300	⊥	⊥		HOLD									⊥
8	-52 1 ft	⊥	1310	⊥	⊥		X									⊥
9	-61 ⊥	⊥	1500	⊥	⊥		⊥									⊥
10	⊥ 5 ft	⊥	1509	⊥	⊥		⊥									⊥
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-21-09	1730	Kathy Spp KZ LPS	10-22-09	11:45

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

FRONTIER ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5799**

Client:	Calscience
Client Project ID:	09-10-1721
Date Received:	10/22/2009
Time Received:	11:45 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	10
Duplicates:	0
Storage Location:	R1

Method of Delivery:	Other
Tracking Number:	512874567
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/20/2009
Adequate Sample Volume	Yes

Anomalies or additional comments:

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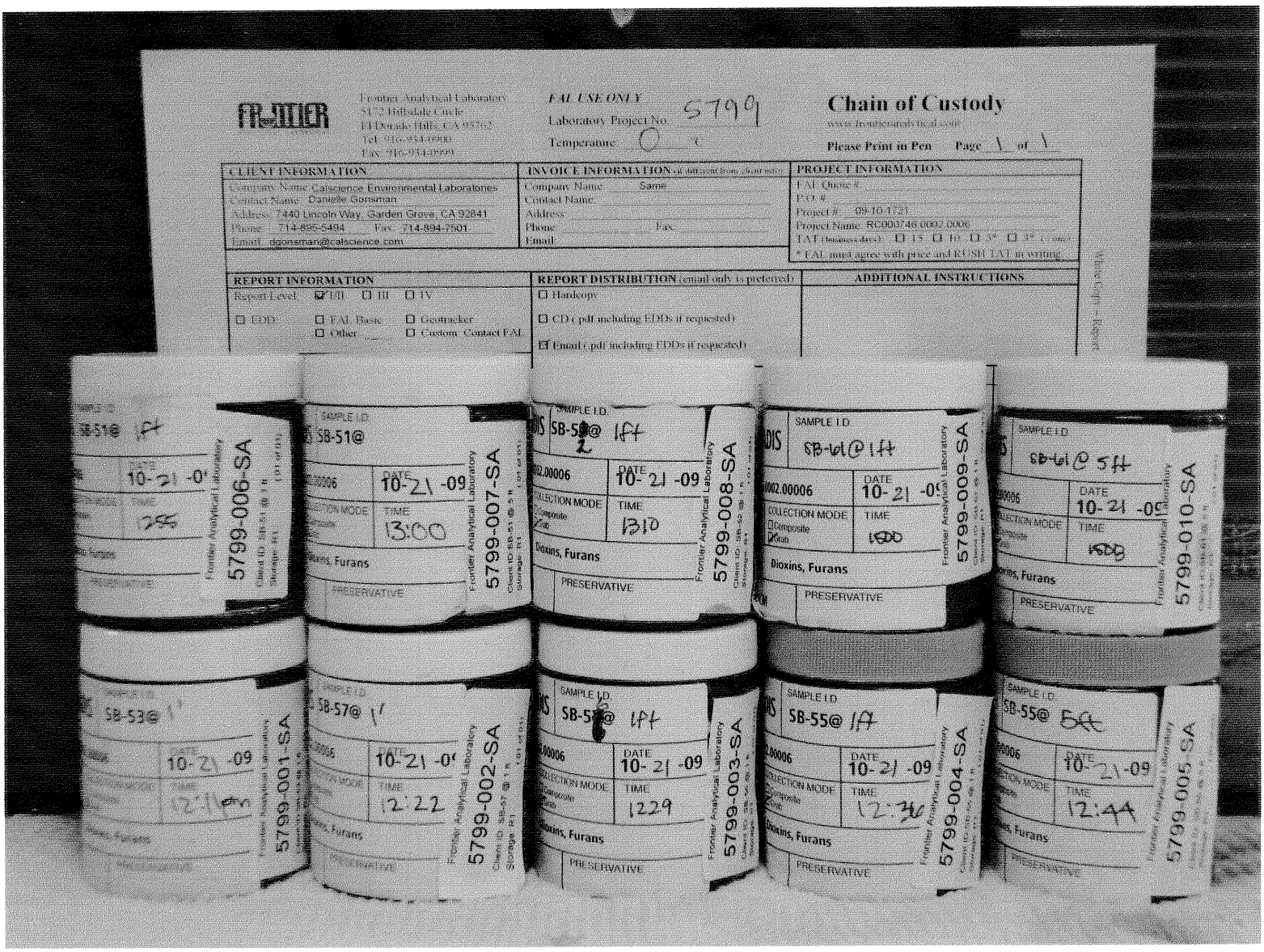
FRONTIER ANALYTICAL LABORATORY



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Calscience Environmental Laboratories, Inc.

November 04, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1754**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1754
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-K**	**10/21/09 11:00**	**Aqueous**	**ICP 5300**	**10/22/09**	**10/23/09 20:15**	**091022LA6F**

Comment(s): -Mercury was analyzed on 10/23/2009 1:32:55 PM with batch 091022L10F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0262	0.0100	1	
Lead	ND	0.0100	1						

CPT-5@23	**09-10-1754-2-H**	**10/21/09 11:40**	**Aqueous**	**ICP 5300**	**10/22/09**	**10/23/09 20:17**	**091022LA6F**

Comment(s): -Mercury was analyzed on 10/23/2009 1:35:10 PM with batch 091022L10F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,386**	**N/A**	**Aqueous**	**Mercury**	**10/22/09**	**10/23/09 12:50**	**091022L10F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,829**	**N/A**	**Aqueous**	**ICP 5300**	**10/22/09**	**10/23/09 12:53**	**091022LA6F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-A**	**10/21/09 11:00**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	**099-10-019-429**	**N/A**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-J**	**10/21/09 11:00**	**Aqueous**	**GC 27**	**10/23/09**	**10/27/09 21:22**	**091023B16**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	290	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	68-140	

CPT-5@23	**09-10-1754-2-G**	**10/21/09 11:40**	**Aqueous**	**GC 27**	**10/23/09**	**10/27/09 21:40**	**091023B16**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	83	68-140	

Method Blank	**099-12-211-1,393**	**N/A**	**Aqueous**	**GC 27**	**10/23/09**	**10/27/09 17:26**	**091023B16**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	74	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@1.0-1.5	**09-10-1754-3-A**	**10/21/09 12:50**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 17:52**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	61-145	

CPT-4@4.5-5.0	**09-10-1754-4-A**	**10/21/09 12:58**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 18:08**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	61-145	

CPT-5@1.0-1.5	**09-10-1754-5-A**	**10/21/09 09:10**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 18:24**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

CPT-5@4.5-5.0	**09-10-1754-6-A**	**10/21/09 09:28**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 18:40**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@1.0-1.5	**09-10-1754-7-A**	**10/21/09 14:30**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 18:56**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	61-145	

CPT-3@4.5-5.0	**09-10-1754-8-A**	**10/21/09 14:38**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 19:13**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

CPT-6@1.0-1.5	**09-10-1754-9-A**	**10/21/09 15:00**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 19:29**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

CPT-6@4.5-5.0	**09-10-1754-10-A**	**10/21/09 15:15**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 19:45**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-025-883**	**N/A**	**Solid**	**GC 47**	**10/23/09**	**10/26/09 16:31**	**091023B09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Diesel Range Organics	ND	5.0	4.8	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3510C
Method:	EPA 8270C SIM PAHs
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-E**	**10/21/09 11:00**	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/28/09 21:07**	**091023L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	2.2	0.29	0.053	1.43		Pyrene	ND	0.29	0.072	1.43	
2-Methylnaphthalene	0.68	0.29	0.050	1.43		Benzo (a) Anthracene	ND	0.29	0.061	1.43	
1-Methylnaphthalene	0.54	0.29	0.051	1.43		Chrysene	ND	0.29	0.059	1.43	
Acenaphthylene	ND	0.29	0.047	1.43		Benzo (k) Fluoranthene	ND	0.29	0.072	1.43	
Acenaphthene	ND	0.29	0.053	1.43		Benzo (b) Fluoranthene	ND	0.29	0.051	1.43	
Fluorene	ND	0.29	0.050	1.43		Benzo (a) Pyrene	ND	0.29	0.050	1.43	
Phenanthrene	ND	0.29	0.054	1.43		Indeno (1,2,3-c,d) Pyrene	ND	0.29	0.051	1.43	
Anthracene	ND	0.29	0.051	1.43		Dibenz (a,h) Anthracene	ND	0.29	0.056	1.43	
Fluoranthene	ND	0.29	0.054	1.43		Benzo (g,h,i) Perylene	ND	0.29	0.053	1.43	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	97	33-144		Nitrobenzene-d5	99	28-139	
p-Terphenyl-d14	76	23-160					

CPT-5@23	**09-10-1754-2-F**	**10/21/09 11:40**	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/28/09 21:29**	**091023L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.22	0.041	1.11		Pyrene	ND	0.22	0.056	1.11	
2-Methylnaphthalene	ND	0.22	0.039	1.11		Benzo (a) Anthracene	ND	0.22	0.048	1.11	
1-Methylnaphthalene	ND	0.22	0.040	1.11		Chrysene	ND	0.22	0.046	1.11	
Acenaphthylene	ND	0.22	0.037	1.11		Benzo (k) Fluoranthene	ND	0.22	0.056	1.11	
Acenaphthene	ND	0.22	0.041	1.11		Benzo (b) Fluoranthene	ND	0.22	0.040	1.11	
Fluorene	ND	0.22	0.039	1.11		Benzo (a) Pyrene	ND	0.22	0.039	1.11	
Phenanthrene	ND	0.22	0.042	1.11		Indeno (1,2,3-c,d) Pyrene	ND	0.22	0.040	1.11	
Anthracene	ND	0.22	0.040	1.11		Dibenz (a,h) Anthracene	ND	0.22	0.043	1.11	
Fluoranthene	ND	0.22	0.042	1.11		Benzo (g,h,i) Perylene	ND	0.22	0.041	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	97	33-144		Nitrobenzene-d5	103	28-139	
p-Terphenyl-d14	74	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-008-228**	**N/A**	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/26/09 17:21**	**091023L15**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.20	0.037	1		Pyrene	ND	0.20	0.050	1	
2-Methylnaphthalene	ND	0.20	0.035	1		Benzo (a) Anthracene	ND	0.20	0.043	1	
1-Methylnaphthalene	ND	0.20	0.036	1		Chrysene	ND	0.20	0.041	1	
Acenaphthylene	ND	0.20	0.033	1		Benzo (k) Fluoranthene	ND	0.20	0.050	1	
Acenaphthene	ND	0.20	0.037	1		Benzo (b) Fluoranthene	ND	0.20	0.036	1	
Fluorene	ND	0.20	0.035	1		Benzo (a) Pyrene	ND	0.20	0.035	1	
Phenanthrene	ND	0.20	0.038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	0.036	1	
Anthracene	ND	0.20	0.036	1		Dibenz (a,h) Anthracene	ND	0.20	0.039	1	
Fluoranthene	ND	0.20	0.038	1		Benzo (g,h,i) Perylene	ND	0.20	0.037	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	97	33-144		Nitrobenzene-d5	125	28-139	
p-Terphenyl-d14	76	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3510C
Method:	EPA 8270C
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-D**	**10/21/09 11:00**	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09 14:25**	**091023L09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	12	1.4	1.25		2,4,5-Trichlorophenol	ND	12	1.2	1.25	
Aniline	ND	12	1.5	1.25		2-Nitroaniline	ND	12	1.2	1.25	
Phenol	ND	12	1.5	1.25		Dimethyl Phthalate	ND	12	1.6	1.25	
Bis(2-Chloroethyl) Ether	ND	31	1.3	1.25		3-Nitroaniline	ND	12	1.5	1.25	
2-Chlorophenol	ND	12	1.3	1.25		2,4-Dinitrophenol	ND	62	3.3	1.25	
1,3-Dichlorobenzene	ND	12	1.5	1.25		4-Nitrophenol	ND	12	1.1	1.25	
1,4-Dichlorobenzene	ND	12	1.4	1.25		Dibenzofuran	ND	12	1.7	1.25	
Benzyl Alcohol	ND	12	1.3	1.25		2,4-Dinitrotoluene	ND	12	1.2	1.25	
1,2-Dichlorobenzene	ND	12	1.4	1.25		2,6-Dinitrotoluene	ND	12	1.4	1.25	
2-Methylphenol	ND	12	1.3	1.25		Diethyl Phthalate	ND	12	1.8	1.25	
Bis(2-Chloroisopropyl) Ether	ND	12	1.9	1.25		4-Chlorophenyl-Phenyl Ether	ND	12	1.5	1.25	
3/4-Methylphenol	ND	12	1.3	1.25		4-Nitroaniline	ND	12	3.0	1.25	
N-Nitroso-di-n-propylamine	ND	12	1.6	1.25		Azobenzene	ND	12	2.1	1.25	
Hexachloroethane	ND	12	1.2	1.25		4,6-Dinitro-2-Methylphenol	ND	62	4.3	1.25	
Nitrobenzene	ND	31	1.7	1.25		N-Nitrosodiphenylamine	ND	12	1.7	1.25	
Isophorone	ND	12	1.5	1.25		4-Bromophenyl-Phenyl Ether	ND	12	1.5	1.25	
2-Nitrophenol	ND	12	1.5	1.25		Hexachlorobenzene	ND	12	1.5	1.25	
2,4-Dimethylphenol	ND	12	1.5	1.25		Pentachlorophenol	ND	12	0.93	1.25	
Benzoic Acid	ND	62	0.53	1.25		Di-n-Butyl Phthalate	ND	12	1.8	1.25	
Bis(2-Chloroethoxy) Methane	ND	12	1.4	1.25		Benzidine	ND	62	0.77	1.25	
2,4-Dichlorophenol	ND	12	1.3	1.25		Pyridine	ND	12	1.8	1.25	
4-Chloroaniline	ND	12	1.6	1.25		Butyl Benzyl Phthalate	ND	12	1.3	1.25	
Hexachloro-1,3-Butadiene	ND	12	1.5	1.25		3,3'-Dichlorobenzidine	ND	31	1.6	1.25	
4-Chloro-3-Methylphenol	ND	12	1.4	1.25		Bis(2-Ethylhexyl) Phthalate	ND	12	1.3	1.25	
Hexachlorocyclopentadiene	ND	31	0.55	1.25		Di-n-Octyl Phthalate	ND	12	1.2	1.25	
2,4,6-Trichlorophenol	ND	12	1.5	1.25		1,2,4-Trichlorobenzene	ND	12	1.6	1.25	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	7-121		Phenol-d6	72	1-127	
Nitrobenzene-d5	104	50-146		2-Fluorobiphenyl	99	42-138	
2,4,6-Tribromophenol	94	41-137		p-Terphenyl-d14	111	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3510C
Method:	EPA 8270C
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@23	**09-10-1754-2-E**	**10/21/09 11:40**	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09 14:52**	**091023L09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	11	1.2	1.11		2,4,5-Trichlorophenol	ND	11	1.1	1.11	
Aniline	ND	11	1.3	1.11		2-Nitroaniline	ND	11	1.1	1.11	
Phenol	ND	11	1.3	1.11		Dimethyl Phthalate	ND	11	1.4	1.11	
Bis(2-Chloroethyl) Ether	ND	28	1.1	1.11		3-Nitroaniline	ND	11	1.4	1.11	
2-Chlorophenol	ND	11	1.1	1.11		2,4-Dinitrophenol	ND	56	2.9	1.11	
1,3-Dichlorobenzene	ND	11	1.3	1.11		4-Nitrophenol	ND	11	0.95	1.11	
1,4-Dichlorobenzene	ND	11	1.3	1.11		Dibenzofuran	ND	11	1.5	1.11	
Benzyl Alcohol	ND	11	1.1	1.11		2,4-Dinitrotoluene	ND	11	1.1	1.11	
1,2-Dichlorobenzene	ND	11	1.2	1.11		2,6-Dinitrotoluene	ND	11	1.2	1.11	
2-Methylphenol	ND	11	1.2	1.11		Diethyl Phthalate	ND	11	1.6	1.11	
Bis(2-Chloroisopropyl) Ether	ND	11	1.7	1.11		4-Chlorophenyl-Phenyl Ether	ND	11	1.4	1.11	
3/4-Methylphenol	ND	11	1.2	1.11		4-Nitroaniline	ND	11	2.7	1.11	
N-Nitroso-di-n-propylamine	ND	11	1.4	1.11		Azobenzene	ND	11	1.8	1.11	
Hexachloroethane	ND	11	1.1	1.11		4,6-Dinitro-2-Methylphenol	ND	56	3.8	1.11	
Nitrobenzene	ND	28	1.5	1.11		N-Nitrosodiphenylamine	ND	11	1.5	1.11	
Isophorone	ND	11	1.4	1.11		4-Bromophenyl-Phenyl Ether	ND	11	1.4	1.11	
2-Nitrophenol	ND	11	1.3	1.11		Hexachlorobenzene	ND	11	1.3	1.11	
2,4-Dimethylphenol	ND	11	1.3	1.11		Pentachlorophenol	ND	11	0.83	1.11	
Benzoic Acid	ND	56	0.47	1.11		Di-n-Butyl Phthalate	ND	11	1.6	1.11	
Bis(2-Chloroethoxy) Methane	ND	11	1.3	1.11		Benzidine	ND	56	0.68	1.11	
2,4-Dichlorophenol	ND	11	1.2	1.11		Pyridine	ND	11	1.6	1.11	
4-Chloroaniline	ND	11	1.4	1.11		Butyl Benzyl Phthalate	ND	11	1.1	1.11	
Hexachloro-1,3-Butadiene	ND	11	1.3	1.11		3,3'-Dichlorobenzidine	ND	28	1.4	1.11	
4-Chloro-3-Methylphenol	ND	11	1.3	1.11		Bis(2-Ethylhexyl) Phthalate	ND	11	1.1	1.11	
Hexachlorocyclopentadiene	ND	28	0.49	1.11		Di-n-Octyl Phthalate	ND	11	1.1	1.11	
2,4,6-Trichlorophenol	ND	11	1.3	1.11		1,2,4-Trichlorobenzene	ND	11	1.4	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	7-121		Phenol-d6	64	1-127	
Nitrobenzene-d5	107	50-146		2-Fluorobiphenyl	99	42-138	
2,4,6-Tribromophenol	98	41-137		p-Terphenyl-d14	116	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,776**	**N/A**	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09 12:40**	**091023L09**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	1.1	1		2,4,5-Trichlorophenol	ND	10	0.97	1	
Aniline	ND	10	1.2	1		2-Nitroaniline	ND	10	1.0	1	
Phenol	ND	10	1.2	1		Dimethyl Phthalate	ND	10	1.3	1	
Bis(2-Chloroethyl) Ether	ND	25	1.0	1		3-Nitroaniline	ND	10	1.2	1	
2-Chlorophenol	ND	10	1.0	1		2,4-Dinitrophenol	ND	50	2.6	1	
1,3-Dichlorobenzene	ND	10	1.2	1		4-Nitrophenol	ND	10	0.86	1	
1,4-Dichlorobenzene	ND	10	1.1	1		Dibenzofuran	ND	10	1.4	1	
Benzyl Alcohol	ND	10	1.0	1		2,4-Dinitrotoluene	ND	10	1.0	1	
1,2-Dichlorobenzene	ND	10	1.1	1		2,6-Dinitrotoluene	ND	10	1.1	1	
2-Methylphenol	ND	10	1.1	1		Diethyl Phthalate	ND	10	1.4	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1.5	1		4-Chlorophenyl-Phenyl Ether	ND	10	1.2	1	
3/4-Methylphenol	ND	10	1.0	1		4-Nitroaniline	ND	10	2.4	1	
N-Nitroso-di-n-propylamine	ND	10	1.3	1		Azobenzene	ND	10	1.7	1	
Hexachloroethane	ND	10	0.98	1		4,6-Dinitro-2-Methylphenol	ND	50	3.4	1	
Nitrobenzene	ND	25	1.3	1		N-Nitrosodiphenylamine	ND	10	1.4	1	
Isophorone	ND	10	1.2	1		4-Bromophenyl-Phenyl Ether	ND	10	1.2	1	
2-Nitrophenol	ND	10	1.2	1		Hexachlorobenzene	ND	10	1.2	1	
2,4-Dimethylphenol	ND	10	1.2	1		Pentachlorophenol	ND	10	0.75	1	
Benzoic Acid	ND	50	0.43	1		Di-n-Butyl Phthalate	ND	10	1.5	1	
Bis(2-Chloroethoxy) Methane	ND	10	1.2	1		Benzidine	ND	50	0.62	1	
2,4-Dichlorophenol	ND	10	1.1	1		Pyridine	ND	10	1.4	1	
4-Chloroaniline	ND	10	1.3	1		Butyl Benzyl Phthalate	ND	10	1.0	1	
Hexachloro-1,3-Butadiene	ND	10	1.2	1		3,3'-Dichlorobenzidine	ND	25	1.3	1	
4-Chloro-3-Methylphenol	ND	10	1.2	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1.0	1	
Hexachlorocyclopentadiene	ND	25	0.44	1		Di-n-Octyl Phthalate	ND	10	1.0	1	
2,4,6-Trichlorophenol	ND	10	1.2	1		1,2,4-Trichlorobenzene	ND	10	1.3	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	7-121		Phenol-d6	64	1-127	
Nitrobenzene-d5	109	50-146		2-Fluorobiphenyl	101	42-138	
2,4,6-Tribromophenol	98	41-137		p-Terphenyl-d14	116	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@1.0-1.5	**09-10-1754-3-A**	**10/21/09 12:50**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 17:27**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	71	42-120		Phenol-d6	76	46-118	
Nitrobenzene-d5	74	42-150		2-Fluorobiphenyl	71	38-134	
2,4,6-Tribromophenol	67	36-132		p-Terphenyl-d14	81	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@4.5-5.0	**09-10-1754-4-A**	**10/21/09 12:58**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 17:53**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	42-120		Phenol-d6	83	46-118	
Nitrobenzene-d5	81	42-150		2-Fluorobiphenyl	76	38-134	
2,4,6-Tribromophenol	71	36-132		p-Terphenyl-d14	86	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1754
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@1.0-1.5	**09-10-1754-5-A**	**10/21/09 09:10**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 18:20**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	42-120		Phenol-d6	83	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	77	38-134	
2,4,6-Tribromophenol	72	36-132		p-Terphenyl-d14	92	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@4.5-5.0	**09-10-1754-6-A**	**10/21/09 09:28**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 18:46**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	70	42-120		Phenol-d6	73	46-118	
Nitrobenzene-d5	72	42-150		2-Fluorobiphenyl	69	38-134	
2,4,6-Tribromophenol	61	36-132		p-Terphenyl-d14	81	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@1.0-1.5	**09-10-1754-7-A**	**10/21/09 14:30**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 19:12**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	78	42-120		Phenol-d6	81	46-118	
Nitrobenzene-d5	80	42-150		2-Fluorobiphenyl	75	38-134	
2,4,6-Tribromophenol	73	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@4.5-5.0	**09-10-1754-8-A**	**10/21/09 14:38**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 19:39**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	68	42-120		Phenol-d6	74	46-118	
Nitrobenzene-d5	79	42-150		2-Fluorobiphenyl	71	38-134	
2,4,6-Tribromophenol	48	36-132		p-Terphenyl-d14	83	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@1.0-1.5	**09-10-1754-9-A**	**10/21/09 15:00**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 20:05**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	70	42-120		Phenol-d6	74	46-118	
Nitrobenzene-d5	72	42-150		2-Fluorobiphenyl	70	38-134	
2,4,6-Tribromophenol	61	36-132		p-Terphenyl-d14	81	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@4.5-5.0	**09-10-1754-10-A**	**10/21/09 15:15**	**Solid**	**GC/MS SS**	**10/25/09**	**10/29/09 12:21**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	64	42-120		Phenol-d6	69	46-118	
Nitrobenzene-d5	68	42-150		2-Fluorobiphenyl	65	38-134	
2,4,6-Tribromophenol	57	36-132		p-Terphenyl-d14	73	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-974**	**N/A**	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09 14:51**	**091025L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	85	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	89	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	73	36-132		p-Terphenyl-d14	88	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3510C
Method:	EPA 8081A
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-F**	**10/21/09 11:00**	**Aqueous**	**GC 44**	**10/23/09**	**10/27/09 05:14**	**091023L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.13	0.033	1.33		Endrin	ND	0.13	0.022	1.33	
Gamma-BHC	ND	0.13	0.035	1.33		Endrin Aldehyde	ND	0.13	0.012	1.33	
Beta-BHC	ND	0.13	0.025	1.33		4,4'-DDD	ND	0.13	0.031	1.33	
Heptachlor	ND	0.13	0.013	1.33		Endosulfan II	ND	0.13	0.029	1.33	
Delta-BHC	ND	0.13	0.042	1.33		4,4'-DDT	ND	0.13	0.022	1.33	
Aldrin	ND	0.13	0.028	1.33		Endosulfan Sulfate	ND	0.13	0.019	1.33	
Heptachlor Epoxide	ND	0.13	0.023	1.33		Methoxychlor	ND	0.13	0.037	1.33	
Endosulfan I	ND	0.13	0.014	1.33		Chlordane	ND	1.3	0.23	1.33	
Dieldrin	ND	0.13	0.032	1.33		Toxaphene	ND	2.7	0.82	1.33	
4,4'-DDE	ND	0.13	0.031	1.33		Endrin Ketone	ND	0.13	0.015	1.33	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	67	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Method Blank	**099-12-529-306**	**N/A**	**Aqueous**	**GC 44**	**10/23/09**	**10/26/09 23:20**	**091023L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.10	0.025	1		Endrin	ND	0.10	0.016	1	
Gamma-BHC	ND	0.10	0.026	1		Endrin Aldehyde	ND	0.10	0.0092	1	
Beta-BHC	ND	0.10	0.018	1		4,4'-DDD	ND	0.10	0.024	1	
Heptachlor	ND	0.10	0.0096	1		Endosulfan II	ND	0.10	0.022	1	
Delta-BHC	ND	0.10	0.032	1		4,4'-DDT	ND	0.10	0.017	1	
Aldrin	ND	0.10	0.021	1		Endosulfan Sulfate	ND	0.10	0.015	1	
Heptachlor Epoxide	ND	0.10	0.017	1		Methoxychlor	ND	0.10	0.028	1	
Endosulfan I	ND	0.10	0.010	1		Chlordane	ND	1.0	0.17	1	
Dieldrin	ND	0.10	0.024	1		Toxaphene	ND	2.0	0.61	1	
4,4'-DDE	ND	0.10	0.023	1		Endrin Ketone	ND	0.10	0.011	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	50-135		2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@1.0-1.5	**09-10-1754-3-A**	**10/21/09 12:50**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 03:11**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	50-135		2,4,5,6-Tetrachloro-m-Xylene	65	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@4.5-5.0	**09-10-1754-4-A**	**10/21/09 12:58**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 03:38**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	73	50-135		2,4,5,6-Tetrachloro-m-Xylene	68	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@1.0-1.5	**09-10-1754-5-A**	**10/21/09 09:10**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 16:07**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	50-135		2,4,5,6-Tetrachloro-m-Xylene	75	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@4.5-5.0	**09-10-1754-6-A**	**10/21/09 09:28**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 16:34**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	75	50-135		2,4,5,6-Tetrachloro-m-Xylene	69	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@1.0-1.5	**09-10-1754-7-A**	**10/21/09 14:30**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 17:01**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	50-135		2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

CPT-3@4.5-5.0	**09-10-1754-8-A**	**10/21/09 14:38**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 19:44**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	64	50-135		2,4,5,6-Tetrachloro-m-Xylene	62	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@1.0-1.5	**09-10-1754-9-A**	**10/21/09 15:00**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 20:12**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	58	50-135		2,4,5,6-Tetrachloro-m-Xylene	60	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@4.5-5.0	**09-10-1754-10-A**	**10/21/09 15:15**	**Solid**	**GC 44**	**10/24/09**	**10/28/09 18:23**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	50-135		2,4,5,6-Tetrachloro-m-Xylene	60	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-755**	**N/A**	**Solid**	**GC 44**	**10/24/09**	**10/27/09 12:13**	**0910224L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-135		2,4,5,6-Tetrachloro-m-Xylene	74	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@1.0-1.5	**09-10-1754-3-A**	**10/21/09 12:50**	**Solid**	**GC 31**	**10/22/09**	**10/28/09 12:42**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	140	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	90	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-130		2,4,5,6-Tetrachloro-m-Xylene	72	50-130	

CPT-4@4.5-5.0	**09-10-1754-4-A**	**10/21/09 12:58**	**Solid**	**GC 31**	**10/22/09**	**10/29/09 05:55**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	500	100	10		Aroclor-1248	1600	500	100	10	
Aroclor-1221	ND	500	100	10		Aroclor-1254	ND	500	100	10	
Aroclor-1232	ND	500	100	10		Aroclor-1260	ND	500	110	10	
Aroclor-1242	ND	500	100	10		Aroclor-1262	ND	500	100	10	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-130		2,4,5,6-Tetrachloro-m-Xylene	77	50-130	

CPT-5@1.0-1.5	**09-10-1754-5-A**	**10/21/09 09:10**	**Solid**	**GC 31**	**10/22/09**	**10/28/09 13:20**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	29	50	10	1	J
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-130		2,4,5,6-Tetrachloro-m-Xylene	86	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@4.5-5.0	**09-10-1754-6-A**	**10/21/09 09:28**	**Solid**	**GC 31**	**10/22/09**	**10/28/09 13:39**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-130		2,4,5,6-Tetrachloro-m-Xylene	79	50-130	

CPT-3@1.0-1.5	**09-10-1754-7-A**	**10/21/09 14:30**	**Solid**	**GC 31**	**10/22/09**	**10/28/09 13:58**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	50-130		2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

CPT-3@4.5-5.0	**09-10-1754-8-A**	**10/21/09 14:38**	**Solid**	**GC 31**	**10/24/09**	**10/29/09 18:20**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@1.0-1.5	**09-10-1754-9-A**	**10/21/09 15:00**	**Solid**	**GC 31**	**10/24/09**	**10/29/09 18:39**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-130		2,4,5,6-Tetrachloro-m-Xylene	96	50-130	

CPT-6@4.5-5.0	**09-10-1754-10-A**	**10/21/09 15:15**	**Solid**	**GC 31**	**10/22/09**	**10/28/09 14:55**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	50-130		2,4,5,6-Tetrachloro-m-Xylene	67	50-130	

Method Blank	**099-12-535-804**	**N/A**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 16:02**	**091024L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-130		2,4,5,6-Tetrachloro-m-Xylene	71	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8141B
		Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-G**	**10/21/09 11:00**	**Aqueous**	**GC 35**	**10/23/09**	**10/26/09 16:23**	**091023L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0066	1.33		Merphos	ND	0.0066	1.33	
Bolstar	ND	0.0066	1.33		Methyl Parathion	ND	0.0066	1.33	
Chlorpyrifos	ND	0.0066	1.33		Mevinphos	ND	0.0066	1.33	
Coumaphos	ND	0.0066	1.33		Naled	ND	0.053	1.33	
Diazinon	ND	0.0066	1.33		Phorate	ND	0.0066	1.33	
Dichlorvos	ND	0.0066	1.33		Ronnel	ND	0.0066	1.33	
Disulfoton	ND	0.013	1.33		Stirophos	ND	0.027	1.33	
Ethoprop	ND	0.0066	1.33		Tokuthion	ND	0.0066	1.33	
Fensulfothion	ND	0.0066	1.33		Trichloronate	ND	0.0066	1.33	
Fenthion	ND	0.0066	1.33		Demeton-o/s	ND	0.0066	1.33	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	118	30-130	

Method Blank	**099-12-957-25**	**N/A**	**Aqueous**	**GC 35**	**10/23/09**	**10/26/09 15:38**	**091023L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	130	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@1.0-1.5	**09-10-1754-3-A**	**10/21/09 12:50**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 02:16**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	111	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@4.5-5.0	**09-10-1754-4-A**	**10/21/09 12:58**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 03:02**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	112	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@1.0-1.5	**09-10-1754-5-A**	**10/21/09 09:10**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 03:47**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	87	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@4.5-5.0	**09-10-1754-6-A**	**10/21/09 09:28**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 04:33**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	119	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@1.0-1.5	**09-10-1754-7-A**	**10/21/09 14:30**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 05:19**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	93	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@4.5-5.0	**09-10-1754-8-A**	**10/21/09 14:38**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 06:05**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	51	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@1.0-1.5	**09-10-1754-9-A**	**10/21/09 15:00**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 06:50**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	59	30-130	

CPT-6@4.5-5.0	**09-10-1754-10-A**	**10/21/09 15:15**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 07:36**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	105	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-465-13**	**N/A**	**Solid**	**GC 35**	**10/24/09**	**10/27/09 13:18**	**091024L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	57	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@1.0-1.5	**09-10-1754-3-E**	**10/21/09 12:50**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 15:19**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	48	0.967		c-1,3-Dichloropropene	ND	0.97	0.967	
Benzene	ND	0.97	0.967		t-1,3-Dichloropropene	ND	1.9	0.967	
Bromobenzene	ND	0.97	0.967		Ethylbenzene	ND	0.97	0.967	
Bromochloromethane	ND	1.9	0.967		2-Hexanone	ND	19	0.967	
Bromodichloromethane	ND	0.97	0.967		Isopropylbenzene	ND	0.97	0.967	
Bromoform	ND	4.8	0.967		p-Isopropyltoluene	ND	0.97	0.967	
Bromomethane	ND	19	0.967		Methylene Chloride	ND	9.7	0.967	
2-Butanone	ND	19	0.967		4-Methyl-2-Pentanone	ND	19	0.967	
n-Butylbenzene	ND	0.97	0.967		Naphthalene	ND	9.7	0.967	
sec-Butylbenzene	ND	0.97	0.967		n-Propylbenzene	ND	1.9	0.967	
tert-Butylbenzene	ND	0.97	0.967		Styrene	ND	0.97	0.967	
Carbon Disulfide	ND	9.7	0.967		1,1,1,2-Tetrachloroethane	ND	0.97	0.967	
Carbon Tetrachloride	ND	0.97	0.967		1,1,2,2-Tetrachloroethane	ND	1.9	0.967	
Chlorobenzene	ND	0.97	0.967		Tetrachloroethene	ND	0.97	0.967	
Chloroethane	ND	1.9	0.967		Toluene	ND	0.97	0.967	
Chloroform	ND	0.97	0.967		1,2,3-Trichlorobenzene	ND	1.9	0.967	
Chloromethane	ND	19	0.967		1,2,4-Trichlorobenzene	ND	1.9	0.967	
2-Chlorotoluene	ND	0.97	0.967		1,1,1-Trichloroethane	ND	0.97	0.967	
4-Chlorotoluene	ND	0.97	0.967		1,1,2-Trichloroethane	ND	0.97	0.967	
Dibromochloromethane	ND	1.9	0.967		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.967	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.967		Trichloroethene	ND	1.9	0.967	
1,2-Dibromoethane	ND	0.97	0.967		Trichlorofluoromethane	ND	9.7	0.967	
Dibromomethane	ND	0.97	0.967		1,2,3-Trichloropropane	ND	1.9	0.967	
1,2-Dichlorobenzene	ND	0.97	0.967		1,2,4-Trimethylbenzene	ND	1.9	0.967	
1,3-Dichlorobenzene	ND	0.97	0.967		1,3,5-Trimethylbenzene	ND	1.9	0.967	
1,4-Dichlorobenzene	ND	0.97	0.967		Vinyl Acetate	ND	9.7	0.967	
Dichlorodifluoromethane	ND	1.9	0.967		Vinyl Chloride	ND	0.97	0.967	
1,1-Dichloroethane	ND	0.97	0.967		p/m-Xylene	ND	1.9	0.967	
1,2-Dichloroethane	ND	0.97	0.967		o-Xylene	ND	0.97	0.967	
1,1-Dichloroethene	ND	0.97	0.967		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.967	
c-1,2-Dichloroethene	ND	0.97	0.967		Tert-Butyl Alcohol (TBA)	ND	19	0.967	
t-1,2-Dichloroethene	ND	0.97	0.967		Diisopropyl Ether (DIPE)	ND	0.97	0.967	
1,2-Dichloropropane	ND	0.97	0.967		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.967	
1,3-Dichloropropane	ND	0.97	0.967		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.967	
2,2-Dichloropropane	ND	4.8	0.967		Ethanol	ND	480	0.967	
1,1-Dichloropropene	ND	1.9	0.967						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@4.5-5.0	**09-10-1754-4-E**	**10/21/09 12:58**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 15:46**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	53	1.06		c-1,3-Dichloropropene	ND	1.1	1.06	
Benzene	ND	1.1	1.06		t-1,3-Dichloropropene	ND	2.1	1.06	
Bromobenzene	ND	1.1	1.06		Ethylbenzene	ND	1.1	1.06	
Bromochloromethane	ND	2.1	1.06		2-Hexanone	ND	21	1.06	
Bromodichloromethane	ND	1.1	1.06		Isopropylbenzene	ND	1.1	1.06	
Bromoform	ND	5.3	1.06		p-Isopropyltoluene	ND	1.1	1.06	
Bromomethane	ND	21	1.06		Methylene Chloride	ND	11	1.06	
2-Butanone	ND	21	1.06		4-Methyl-2-Pentanone	ND	21	1.06	
n-Butylbenzene	ND	1.1	1.06		Naphthalene	ND	11	1.06	
sec-Butylbenzene	ND	1.1	1.06		n-Propylbenzene	ND	2.1	1.06	
tert-Butylbenzene	ND	1.1	1.06		Styrene	ND	1.1	1.06	
Carbon Disulfide	ND	11	1.06		1,1,1,2-Tetrachloroethane	ND	1.1	1.06	
Carbon Tetrachloride	ND	1.1	1.06		1,1,2,2-Tetrachloroethane	ND	2.1	1.06	
Chlorobenzene	ND	1.1	1.06		Tetrachloroethene	ND	1.1	1.06	
Chloroethane	ND	2.1	1.06		Toluene	ND	1.1	1.06	
Chloroform	ND	1.1	1.06		1,2,3-Trichlorobenzene	ND	2.1	1.06	
Chloromethane	ND	21	1.06		1,2,4-Trichlorobenzene	ND	2.1	1.06	
2-Chlorotoluene	ND	1.1	1.06		1,1,1-Trichloroethane	ND	1.1	1.06	
4-Chlorotoluene	ND	1.1	1.06		1,1,2-Trichloroethane	ND	1.1	1.06	
Dibromochloromethane	ND	2.1	1.06		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.06	
1,2-Dibromo-3-Chloropropane	ND	5.3	1.06		Trichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	1.1	1.06		Trichlorofluoromethane	ND	11	1.06	
Dibromomethane	ND	1.1	1.06		1,2,3-Trichloropropane	ND	2.1	1.06	
1,2-Dichlorobenzene	ND	1.1	1.06		1,2,4-Trimethylbenzene	ND	2.1	1.06	
1,3-Dichlorobenzene	ND	1.1	1.06		1,3,5-Trimethylbenzene	ND	2.1	1.06	
1,4-Dichlorobenzene	ND	1.1	1.06		Vinyl Acetate	ND	11	1.06	
Dichlorodifluoromethane	ND	2.1	1.06		Vinyl Chloride	ND	1.1	1.06	
1,1-Dichloroethane	ND	1.1	1.06		p/m-Xylene	ND	2.1	1.06	
1,2-Dichloroethane	ND	1.1	1.06		o-Xylene	ND	1.1	1.06	
1,1-Dichloroethene	ND	1.1	1.06		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.06	
c-1,2-Dichloroethene	ND	1.1	1.06		Tert-Butyl Alcohol (TBA)	ND	21	1.06	
t-1,2-Dichloroethene	ND	1.1	1.06		Diisopropyl Ether (DIPE)	ND	1.1	1.06	
1,2-Dichloropropane	ND	1.1	1.06		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.06	
1,3-Dichloropropane	ND	1.1	1.06		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.06	
2,2-Dichloropropane	ND	5.3	1.06		Ethanol	ND	530	1.06	
1,1-Dichloropropene	ND	2.1	1.06						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	118	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@1.0-1.5	**09-10-1754-5-E**	**10/21/09 09:10**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 16:14**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	69	50	0.994		c-1,3-Dichloropropene	ND	0.99	0.994	
Benzene	ND	0.99	0.994		t-1,3-Dichloropropene	ND	2.0	0.994	
Bromobenzene	ND	0.99	0.994		Ethylbenzene	ND	0.99	0.994	
Bromochloromethane	ND	2.0	0.994		2-Hexanone	ND	20	0.994	
Bromodichloromethane	ND	0.99	0.994		Isopropylbenzene	ND	0.99	0.994	
Bromoform	ND	5.0	0.994		p-Isopropyltoluene	ND	0.99	0.994	
Bromomethane	ND	20	0.994		Methylene Chloride	ND	9.9	0.994	
2-Butanone	ND	20	0.994		4-Methyl-2-Pentanone	ND	20	0.994	
n-Butylbenzene	ND	0.99	0.994		Naphthalene	ND	9.9	0.994	
sec-Butylbenzene	ND	0.99	0.994		n-Propylbenzene	ND	2.0	0.994	
tert-Butylbenzene	ND	0.99	0.994		Styrene	ND	0.99	0.994	
Carbon Disulfide	ND	9.9	0.994		1,1,1,2-Tetrachloroethane	ND	0.99	0.994	
Carbon Tetrachloride	ND	0.99	0.994		1,1,2,2-Tetrachloroethane	ND	2.0	0.994	
Chlorobenzene	ND	0.99	0.994		Tetrachloroethene	ND	0.99	0.994	
Chloroethane	ND	2.0	0.994		Toluene	ND	0.99	0.994	
Chloroform	ND	0.99	0.994		1,2,3-Trichlorobenzene	ND	2.0	0.994	
Chloromethane	ND	20	0.994		1,2,4-Trichlorobenzene	ND	2.0	0.994	
2-Chlorotoluene	ND	0.99	0.994		1,1,1-Trichloroethane	ND	0.99	0.994	
4-Chlorotoluene	ND	0.99	0.994		1,1,2-Trichloroethane	ND	0.99	0.994	
Dibromochloromethane	ND	2.0	0.994		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.9	0.994	
1,2-Dibromo-3-Chloropropane	ND	5.0	0.994		Trichloroethene	ND	2.0	0.994	
1,2-Dibromoethane	ND	0.99	0.994		Trichlorofluoromethane	ND	9.9	0.994	
Dibromomethane	ND	0.99	0.994		1,2,3-Trichloropropane	ND	2.0	0.994	
1,2-Dichlorobenzene	ND	0.99	0.994		1,2,4-Trimethylbenzene	ND	2.0	0.994	
1,3-Dichlorobenzene	ND	0.99	0.994		1,3,5-Trimethylbenzene	ND	2.0	0.994	
1,4-Dichlorobenzene	ND	0.99	0.994		Vinyl Acetate	ND	9.9	0.994	
Dichlorodifluoromethane	ND	2.0	0.994		Vinyl Chloride	ND	0.99	0.994	
1,1-Dichloroethane	ND	0.99	0.994		p/m-Xylene	ND	2.0	0.994	
1,2-Dichloroethane	ND	0.99	0.994		o-Xylene	ND	0.99	0.994	
1,1-Dichloroethene	ND	0.99	0.994		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.994	
c-1,2-Dichloroethene	ND	0.99	0.994		Tert-Butyl Alcohol (TBA)	ND	20	0.994	
t-1,2-Dichloroethene	ND	0.99	0.994		Diisopropyl Ether (DIPE)	ND	0.99	0.994	
1,2-Dichloropropane	ND	0.99	0.994		Ethyl-t-Butyl Ether (ETBE)	ND	0.99	0.994	
1,3-Dichloropropane	ND	0.99	0.994		Tert-Amyl-Methyl Ether (TAME)	ND	0.99	0.994	
2,2-Dichloropropane	ND	5.0	0.994		Ethanol	ND	500	0.994	
1,1-Dichloropropene	ND	2.0	0.994						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	118	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@4.5-5.0	**09-10-1754-6-E**	**10/21/09 09:28**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 16:41**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	84	46	0.917		c-1,3-Dichloropropene	ND	0.92	0.917	
Benzene	ND	0.92	0.917		t-1,3-Dichloropropene	ND	1.8	0.917	
Bromobenzene	ND	0.92	0.917		Ethylbenzene	ND	0.92	0.917	
Bromochloromethane	ND	1.8	0.917		2-Hexanone	ND	18	0.917	
Bromodichloromethane	ND	0.92	0.917		Isopropylbenzene	ND	0.92	0.917	
Bromoform	ND	4.6	0.917		p-Isopropyltoluene	ND	0.92	0.917	
Bromomethane	ND	18	0.917		Methylene Chloride	ND	9.2	0.917	
2-Butanone	ND	18	0.917		4-Methyl-2-Pentanone	ND	18	0.917	
n-Butylbenzene	ND	0.92	0.917		Naphthalene	ND	9.2	0.917	
sec-Butylbenzene	ND	0.92	0.917		n-Propylbenzene	ND	1.8	0.917	
tert-Butylbenzene	ND	0.92	0.917		Styrene	ND	0.92	0.917	
Carbon Disulfide	ND	9.2	0.917		1,1,1,2-Tetrachloroethane	ND	0.92	0.917	
Carbon Tetrachloride	ND	0.92	0.917		1,1,2,2-Tetrachloroethane	ND	1.8	0.917	
Chlorobenzene	ND	0.92	0.917		Tetrachloroethene	ND	0.92	0.917	
Chloroethane	ND	1.8	0.917		Toluene	ND	0.92	0.917	
Chloroform	ND	0.92	0.917		1,2,3-Trichlorobenzene	ND	1.8	0.917	
Chloromethane	ND	18	0.917		1,2,4-Trichlorobenzene	ND	1.8	0.917	
2-Chlorotoluene	ND	0.92	0.917		1,1,1-Trichloroethane	ND	0.92	0.917	
4-Chlorotoluene	ND	0.92	0.917		1,1,2-Trichloroethane	ND	0.92	0.917	
Dibromochloromethane	ND	1.8	0.917		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.2	0.917	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.917		Trichloroethene	ND	1.8	0.917	
1,2-Dibromoethane	ND	0.92	0.917		Trichlorofluoromethane	ND	9.2	0.917	
Dibromomethane	ND	0.92	0.917		1,2,3-Trichloropropane	ND	1.8	0.917	
1,2-Dichlorobenzene	ND	0.92	0.917		1,2,4-Trimethylbenzene	ND	1.8	0.917	
1,3-Dichlorobenzene	ND	0.92	0.917		1,3,5-Trimethylbenzene	ND	1.8	0.917	
1,4-Dichlorobenzene	ND	0.92	0.917		Vinyl Acetate	ND	9.2	0.917	
Dichlorodifluoromethane	ND	1.8	0.917		Vinyl Chloride	ND	0.92	0.917	
1,1-Dichloroethane	ND	0.92	0.917		p/m-Xylene	ND	1.8	0.917	
1,2-Dichloroethane	ND	0.92	0.917		o-Xylene	ND	0.92	0.917	
1,1-Dichloroethene	ND	0.92	0.917		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.917	
c-1,2-Dichloroethene	ND	0.92	0.917		Tert-Butyl Alcohol (TBA)	ND	18	0.917	
t-1,2-Dichloroethene	ND	0.92	0.917		Diisopropyl Ether (DIPE)	ND	0.92	0.917	
1,2-Dichloropropane	ND	0.92	0.917		Ethyl-t-Butyl Ether (ETBE)	ND	0.92	0.917	
1,3-Dichloropropane	ND	0.92	0.917		Tert-Amyl-Methyl Ether (TAME)	ND	0.92	0.917	
2,2-Dichloropropane	ND	4.6	0.917		Ethanol	ND	460	0.917	
1,1-Dichloropropene	ND	1.8	0.917						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	119	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@1.0-1.5	**09-10-1754-7-E**	**10/21/09 14:30**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 17:08**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	74	52	1.05		c-1,3-Dichloropropene	ND	1.0	1.05	
Benzene	ND	1.0	1.05		t-1,3-Dichloropropene	ND	2.1	1.05	
Bromobenzene	ND	1.0	1.05		Ethylbenzene	ND	1.0	1.05	
Bromochloromethane	ND	2.1	1.05		2-Hexanone	ND	21	1.05	
Bromodichloromethane	ND	1.0	1.05		Isopropylbenzene	ND	1.0	1.05	
Bromoform	ND	5.2	1.05		p-Isopropyltoluene	ND	1.0	1.05	
Bromomethane	ND	21	1.05		Methylene Chloride	ND	10	1.05	
2-Butanone	ND	21	1.05		4-Methyl-2-Pentanone	ND	21	1.05	
n-Butylbenzene	ND	1.0	1.05		Naphthalene	ND	10	1.05	
sec-Butylbenzene	ND	1.0	1.05		n-Propylbenzene	ND	2.1	1.05	
tert-Butylbenzene	ND	1.0	1.05		Styrene	ND	1.0	1.05	
Carbon Disulfide	ND	10	1.05		1,1,1,2-Tetrachloroethane	ND	1.0	1.05	
Carbon Tetrachloride	ND	1.0	1.05		1,1,2,2-Tetrachloroethane	ND	2.1	1.05	
Chlorobenzene	ND	1.0	1.05		Tetrachloroethene	ND	1.0	1.05	
Chloroethane	ND	2.1	1.05		Toluene	ND	1.0	1.05	
Chloroform	ND	1.0	1.05		1,2,3-Trichlorobenzene	ND	2.1	1.05	
Chloromethane	ND	21	1.05		1,2,4-Trichlorobenzene	ND	2.1	1.05	
2-Chlorotoluene	ND	1.0	1.05		1,1,1-Trichloroethane	ND	1.0	1.05	
4-Chlorotoluene	ND	1.0	1.05		1,1,2-Trichloroethane	ND	1.0	1.05	
Dibromochloromethane	ND	2.1	1.05		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.05	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.05		Trichloroethene	ND	2.1	1.05	
1,2-Dibromoethane	ND	1.0	1.05		Trichlorofluoromethane	ND	10	1.05	
Dibromomethane	ND	1.0	1.05		1,2,3-Trichloropropane	ND	2.1	1.05	
1,2-Dichlorobenzene	ND	1.0	1.05		1,2,4-Trimethylbenzene	ND	2.1	1.05	
1,3-Dichlorobenzene	ND	1.0	1.05		1,3,5-Trimethylbenzene	ND	2.1	1.05	
1,4-Dichlorobenzene	ND	1.0	1.05		Vinyl Acetate	ND	10	1.05	
Dichlorodifluoromethane	ND	2.1	1.05		Vinyl Chloride	ND	1.0	1.05	
1,1-Dichloroethane	ND	1.0	1.05		p/m-Xylene	ND	2.1	1.05	
1,2-Dichloroethane	ND	1.0	1.05		o-Xylene	ND	1.0	1.05	
1,1-Dichloroethene	ND	1.0	1.05		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05	
c-1,2-Dichloroethene	ND	1.0	1.05		Tert-Butyl Alcohol (TBA)	ND	21	1.05	
t-1,2-Dichloroethene	ND	1.0	1.05		Diisopropyl Ether (DIPE)	ND	1.0	1.05	
1,2-Dichloropropane	ND	1.0	1.05		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.05	
1,3-Dichloropropane	ND	1.0	1.05		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.05	
2,2-Dichloropropane	ND	5.2	1.05		Ethanol	ND	520	1.05	
1,1-Dichloropropene	ND	2.1	1.05						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	86	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@4.5-5.0	**09-10-1754-8-E**	**10/21/09 14:38**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 17:36**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	55	48	0.96		c-1,3-Dichloropropene	ND	0.96	0.96	
Benzene	ND	0.96	0.96		t-1,3-Dichloropropene	ND	1.9	0.96	
Bromobenzene	ND	0.96	0.96		Ethylbenzene	ND	0.96	0.96	
Bromochloromethane	ND	1.9	0.96		2-Hexanone	ND	19	0.96	
Bromodichloromethane	ND	0.96	0.96		Isopropylbenzene	ND	0.96	0.96	
Bromoform	ND	4.8	0.96		p-Isopropyltoluene	ND	0.96	0.96	
Bromomethane	ND	19	0.96		Methylene Chloride	ND	9.6	0.96	
2-Butanone	ND	19	0.96		4-Methyl-2-Pentanone	ND	19	0.96	
n-Butylbenzene	ND	0.96	0.96		Naphthalene	ND	9.6	0.96	
sec-Butylbenzene	ND	0.96	0.96		n-Propylbenzene	ND	1.9	0.96	
tert-Butylbenzene	ND	0.96	0.96		Styrene	ND	0.96	0.96	
Carbon Disulfide	ND	9.6	0.96		1,1,1,2-Tetrachloroethane	ND	0.96	0.96	
Carbon Tetrachloride	ND	0.96	0.96		1,1,2,2-Tetrachloroethane	ND	1.9	0.96	
Chlorobenzene	ND	0.96	0.96		Tetrachloroethene	ND	0.96	0.96	
Chloroethane	ND	1.9	0.96		Toluene	ND	0.96	0.96	
Chloroform	ND	0.96	0.96		1,2,3-Trichlorobenzene	ND	1.9	0.96	
Chloromethane	ND	19	0.96		1,2,4-Trichlorobenzene	ND	1.9	0.96	
2-Chlorotoluene	ND	0.96	0.96		1,1,1-Trichloroethane	ND	0.96	0.96	
4-Chlorotoluene	ND	0.96	0.96		1,1,2-Trichloroethane	ND	0.96	0.96	
Dibromochloromethane	ND	1.9	0.96		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.6	0.96	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.96		Trichloroethene	ND	1.9	0.96	
1,2-Dibromoethane	ND	0.96	0.96		Trichlorofluoromethane	ND	9.6	0.96	
Dibromomethane	ND	0.96	0.96		1,2,3-Trichloropropane	ND	1.9	0.96	
1,2-Dichlorobenzene	ND	0.96	0.96		1,2,4-Trimethylbenzene	ND	1.9	0.96	
1,3-Dichlorobenzene	ND	0.96	0.96		1,3,5-Trimethylbenzene	ND	1.9	0.96	
1,4-Dichlorobenzene	ND	0.96	0.96		Vinyl Acetate	ND	9.6	0.96	
Dichlorodifluoromethane	ND	1.9	0.96		Vinyl Chloride	ND	0.96	0.96	
1,1-Dichloroethane	ND	0.96	0.96		p/m-Xylene	ND	1.9	0.96	
1,2-Dichloroethane	ND	0.96	0.96		o-Xylene	ND	0.96	0.96	
1,1-Dichloroethene	ND	0.96	0.96		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.96	
c-1,2-Dichloroethene	ND	0.96	0.96		Tert-Butyl Alcohol (TBA)	ND	19	0.96	
t-1,2-Dichloroethene	ND	0.96	0.96		Diisopropyl Ether (DIPE)	ND	0.96	0.96	
1,2-Dichloropropane	ND	0.96	0.96		Ethyl-t-Butyl Ether (ETBE)	ND	0.96	0.96	
1,3-Dichloropropane	ND	0.96	0.96		Tert-Amyl-Methyl Ether (TAME)	ND	0.96	0.96	
2,2-Dichloropropane	ND	4.8	0.96		Ethanol	ND	480	0.96	
1,1-Dichloropropene	ND	1.9	0.96						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	87	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@1.0-1.5	**09-10-1754-9-E**	**10/21/09 15:00**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 18:03**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	52	1.03		c-1,3-Dichloropropene	ND	1.0	1.03	
Benzene	ND	1.0	1.03		t-1,3-Dichloropropene	ND	2.1	1.03	
Bromobenzene	ND	1.0	1.03		Ethylbenzene	ND	1.0	1.03	
Bromochloromethane	ND	2.1	1.03		2-Hexanone	ND	21	1.03	
Bromodichloromethane	ND	1.0	1.03		Isopropylbenzene	ND	1.0	1.03	
Bromoform	ND	5.2	1.03		p-Isopropyltoluene	ND	1.0	1.03	
Bromomethane	ND	21	1.03		Methylene Chloride	ND	10	1.03	
2-Butanone	ND	21	1.03		4-Methyl-2-Pentanone	ND	21	1.03	
n-Butylbenzene	ND	1.0	1.03		Naphthalene	ND	10	1.03	
sec-Butylbenzene	ND	1.0	1.03		n-Propylbenzene	ND	2.1	1.03	
tert-Butylbenzene	ND	1.0	1.03		Styrene	ND	1.0	1.03	
Carbon Disulfide	ND	10	1.03		1,1,1,2-Tetrachloroethane	ND	1.0	1.03	
Carbon Tetrachloride	ND	1.0	1.03		1,1,2,2-Tetrachloroethane	ND	2.1	1.03	
Chlorobenzene	ND	1.0	1.03		Tetrachloroethene	ND	1.0	1.03	
Chloroethane	ND	2.1	1.03		Toluene	ND	1.0	1.03	
Chloroform	ND	1.0	1.03		1,2,3-Trichlorobenzene	ND	2.1	1.03	
Chloromethane	ND	21	1.03		1,2,4-Trichlorobenzene	ND	2.1	1.03	
2-Chlorotoluene	ND	1.0	1.03		1,1,1-Trichloroethane	ND	1.0	1.03	
4-Chlorotoluene	ND	1.0	1.03		1,1,2-Trichloroethane	ND	1.0	1.03	
Dibromochloromethane	ND	2.1	1.03		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.03	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.03		Trichloroethene	ND	2.1	1.03	
1,2-Dibromoethane	ND	1.0	1.03		Trichlorofluoromethane	ND	10	1.03	
Dibromomethane	ND	1.0	1.03		1,2,3-Trichloropropane	ND	2.1	1.03	
1,2-Dichlorobenzene	ND	1.0	1.03		1,2,4-Trimethylbenzene	ND	2.1	1.03	
1,3-Dichlorobenzene	ND	1.0	1.03		1,3,5-Trimethylbenzene	ND	2.1	1.03	
1,4-Dichlorobenzene	ND	1.0	1.03		Vinyl Acetate	ND	10	1.03	
Dichlorodifluoromethane	ND	2.1	1.03		Vinyl Chloride	ND	1.0	1.03	
1,1-Dichloroethane	ND	1.0	1.03		p/m-Xylene	ND	2.1	1.03	
1,2-Dichloroethane	ND	1.0	1.03		o-Xylene	ND	1.0	1.03	
1,1-Dichloroethene	ND	1.0	1.03		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.03	
c-1,2-Dichloroethene	ND	1.0	1.03		Tert-Butyl Alcohol (TBA)	ND	21	1.03	
t-1,2-Dichloroethene	ND	1.0	1.03		Diisopropyl Ether (DIPE)	ND	1.0	1.03	
1,2-Dichloropropane	ND	1.0	1.03		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.03	
1,3-Dichloropropane	ND	1.0	1.03		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.03	
2,2-Dichloropropane	ND	5.2	1.03		Ethanol	ND	520	1.03	
1,1-Dichloropropene	ND	2.1	1.03						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	71-137		1,2-Dichloroethane-d4	122	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@4.5-5.0	**09-10-1754-10-E**	**10/21/09 15:15**	**Solid**	**GC/MS RR**	**10/21/09**	**10/26/09 18:30**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	58	1.17		c-1,3-Dichloropropene	ND	1.2	1.17	
Benzene	ND	1.2	1.17		t-1,3-Dichloropropene	ND	2.3	1.17	
Bromobenzene	ND	1.2	1.17		Ethylbenzene	ND	1.2	1.17	
Bromochloromethane	ND	2.3	1.17		2-Hexanone	ND	23	1.17	
Bromodichloromethane	ND	1.2	1.17		Isopropylbenzene	ND	1.2	1.17	
Bromoform	ND	5.8	1.17		p-Isopropyltoluene	ND	1.2	1.17	
Bromomethane	ND	23	1.17		Methylene Chloride	ND	12	1.17	
2-Butanone	ND	23	1.17		4-Methyl-2-Pentanone	ND	23	1.17	
n-Butylbenzene	ND	1.2	1.17		Naphthalene	ND	12	1.17	
sec-Butylbenzene	ND	1.2	1.17		n-Propylbenzene	ND	2.3	1.17	
tert-Butylbenzene	ND	1.2	1.17		Styrene	ND	1.2	1.17	
Carbon Disulfide	ND	12	1.17		1,1,1,2-Tetrachloroethane	ND	1.2	1.17	
Carbon Tetrachloride	ND	1.2	1.17		1,1,2,2-Tetrachloroethane	ND	2.3	1.17	
Chlorobenzene	ND	1.2	1.17		Tetrachloroethene	ND	1.2	1.17	
Chloroethane	ND	2.3	1.17		Toluene	ND	1.2	1.17	
Chloroform	ND	1.2	1.17		1,2,3-Trichlorobenzene	ND	2.3	1.17	
Chloromethane	ND	23	1.17		1,2,4-Trichlorobenzene	ND	2.3	1.17	
2-Chlorotoluene	ND	1.2	1.17		1,1,1-Trichloroethane	ND	1.2	1.17	
4-Chlorotoluene	ND	1.2	1.17		1,1,2-Trichloroethane	ND	1.2	1.17	
Dibromochloromethane	ND	2.3	1.17		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.17	
1,2-Dibromo-3-Chloropropane	ND	5.8	1.17		Trichloroethene	ND	2.3	1.17	
1,2-Dibromoethane	ND	1.2	1.17		Trichlorofluoromethane	ND	12	1.17	
Dibromomethane	ND	1.2	1.17		1,2,3-Trichloropropane	ND	2.3	1.17	
1,2-Dichlorobenzene	ND	1.2	1.17		1,2,4-Trimethylbenzene	ND	2.3	1.17	
1,3-Dichlorobenzene	ND	1.2	1.17		1,3,5-Trimethylbenzene	ND	2.3	1.17	
1,4-Dichlorobenzene	ND	1.2	1.17		Vinyl Acetate	ND	12	1.17	
Dichlorodifluoromethane	ND	2.3	1.17		Vinyl Chloride	ND	1.2	1.17	
1,1-Dichloroethane	ND	1.2	1.17		p/m-Xylene	ND	2.3	1.17	
1,2-Dichloroethane	ND	1.2	1.17		o-Xylene	ND	1.2	1.17	
1,1-Dichloroethene	ND	1.2	1.17		Methyl-t-Butyl Ether (MTBE)	ND	2.3	1.17	
c-1,2-Dichloroethene	ND	1.2	1.17		Tert-Butyl Alcohol (TBA)	ND	23	1.17	
t-1,2-Dichloroethene	ND	1.2	1.17		Diisopropyl Ether (DIPE)	ND	1.2	1.17	
1,2-Dichloropropane	ND	1.2	1.17		Ethyl-t-Butyl Ether (ETBE)	ND	1.2	1.17	
1,3-Dichloropropane	ND	1.2	1.17		Tert-Amyl-Methyl Ether (TAME)	ND	1.2	1.17	
2,2-Dichloropropane	ND	5.8	1.17		Ethanol	ND	580	1.17	
1,1-Dichloropropene	ND	2.3	1.17						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	84	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,401**	**N/A**	**Solid**	**GC/MS RR**	**10/26/09**	**10/26/09 14:52**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	71-137		1,2-Dichloroethane-d4	107	58-160	
1,4-Bromofluorobenzene	85	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1-A**	**10/21/09 11:00**	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09 18:47**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	0.74	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	1.1	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	3.0	0.50	1	
n-Butylbenzene	2.0	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	0.52	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	1.6	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@15	**09-10-1754-1**		**Aqueous**		**10/26/09**	**10/26/09 18:47**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	100	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	105	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 3 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@23	**09-10-1754-2-B**	**10/21/09 11:40**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 17:32**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	1.4	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	2.3	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-5@23	**09-10-1754-2**		**Aqueous**		**10/27/09**	**10/27/09 17:32**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	113	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	107	80-120		1,4-Bromofluorobenzene	95	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,274**	**N/A**	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09 12:00**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,274**	**N/A**	**Aqueous**		**10/26/09**	**10/26/09 12:00**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	101	80-128		Dibromofluoromethane	100	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	93	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,276**	**N/A**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 13:22**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/22/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,276**	**N/A**	**Aqueous**		**10/27/09**	**10/27/09 13:22**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	97	80-128		Dibromofluoromethane	92	80-127	
Toluene-d8	106	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/22/09
Work Order No: 09-10-1754
Preparation: EPA 3010A Total
Method: EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1824-1	**Aqueous**	**ICP 5300**	**10/22/09**	**10/23/09**	**091022SA6**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	112	112	72-132	0	0-10	
Arsenic	115	117	80-140	2	0-11	
Beryllium	107	106	89-119	1	0-8	
Cadmium	105	106	82-124	1	0-7	
Chromium	102	102	86-122	0	0-8	
Copper	110	110	78-126	0	0-7	
Lead	103	106	84-120	2	0-7	
Nickel	102	103	84-120	1	0-7	
Selenium	109	112	79-127	2	0-9	
Silver	119	118	86-128	1	0-7	
Thallium	103	104	79-121	1	0-8	
Zinc	107	118	89-131	10	0-8	4

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT-4@1.0-1.5	**Solid**	**GC 47**	**10/23/09**	**10/26/09**	**091023S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	87	81	64-130	7	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2006-1	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	79	83	25-121	5	0-11	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 7470A Total
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1762-3	**Aqueous**	**Mercury**	**10/22/09**	**10/23/09**	**091022S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	108	57-141	6	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1694-12	**Solid**	**GC 44**	**10/24/09**	**10/28/09**	**091024S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	84	84	50-135	0	0-25	
Gamma-BHC	84	85	50-135	0	0-25	
Beta-BHC	86	88	50-135	2	0-25	
Heptachlor	84	85	50-135	0	0-25	
Delta-BHC	93	98	50-135	5	0-25	
Aldrin	82	82	50-135	0	0-25	
Heptachlor Epoxide	77	74	50-135	4	0-25	
Endosulfan I	77	79	50-135	2	0-25	
Dieldrin	81	82	50-135	1	0-25	
4,4'-DDE	98	100	50-135	2	0-25	
Endrin	98	98	50-135	0	0-25	
Endrin Aldehyde	86	135	50-135	45	0-25	4
4,4'-DDD	95	93	50-135	2	0-25	
Endosulfan II	80	79	50-135	1	0-25	
4,4'-DDT	82	83	50-135	1	0-25	
Endosulfan Sulfate	80	80	50-135	1	0-25	
Methoxychlor	88	88	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1886-1	**Solid**	**GC 31**	**10/24/09**	**10/27/09**	**091024S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	76	78	50-135	3	0-25	
Aroclor-1260	90	87	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT-6@4.5-5.0	**Solid**	**GC/MS SS**	**10/25/09**	**10/29/09**	**091025S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	81	80	57-123	1	0-16	
2-Chlorophenol	83	82	57-111	1	0-17	
1,4-Dichlorobenzene	86	86	49-127	1	0-20	
N-Nitroso-di-n-propylamine	93	92	54-144	1	0-17	
1,2,4-Trichlorobenzene	84	84	42-132	1	0-20	
Naphthalene	74	73	50-150	1	0-20	
4-Chloro-3-Methylphenol	83	82	50-128	2	0-17	
Dimethyl Phthalate	68	67	50-150	1	0-20	
Acenaphthylene	70	70	50-150	0	0-20	
Acenaphthene	75	76	49-133	1	0-18	
4-Nitrophenol	73	69	30-144	7	0-21	
2,4-Dinitrotoluene	74	72	50-128	4	0-18	
Fluorene	75	75	50-150	1	0-20	
Pentachlorophenol	63	58	29-113	8	0-22	
Pyrene	84	90	47-149	7	0-20	
Butyl Benzyl Phthalate	77	79	50-150	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1694-7	**Solid**	**GC 35**	**10/24/09**	**10/27/09**	**091024S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	101	100	30-130	1	0-30	
Bolstar	86	85	30-130	1	0-30	
Chlorpyrifos	91	92	30-130	0	0-30	
Coumaphos	101	101	30-130	1	0-30	
Diazinon	96	100	30-130	4	0-30	
Disulfoton	103	106	30-130	3	0-30	
Ethoprop	100	102	30-130	2	0-30	
Fensulfothion	108	108	30-130	0	0-30	
Fenthion	98	99	30-130	1	0-30	
Merphos	70	74	30-130	6	0-30	
Methyl Parathion	92	95	30-130	4	0-30	
Phorate	111	113	30-130	2	0-30	
Ronnel	88	91	30-130	3	0-30	
Stirophos	109	111	30-130	2	0-30	
Tokuthion	82	84	30-130	2	0-30	
Trichloronate	104	96	30-130	8	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1722-4	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09**	**091026S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	104	76-124	1	0-20	
Carbon Tetrachloride	93	99	74-134	6	0-20	
Chlorobenzene	97	100	80-120	3	0-20	
1,2-Dibromoethane	94	99	80-120	6	0-20	
1,2-Dichlorobenzene	95	99	80-120	4	0-20	
1,1-Dichloroethene	102	100	73-127	2	0-20	
Ethylbenzene	100	99	78-126	1	0-20	
Toluene	111	105	80-120	6	0-20	
Trichloroethene	97	101	77-120	4	0-20	
Vinyl Chloride	91	91	72-126	1	0-20	
Methyl-t-Butyl Ether (MTBE)	101	102	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	99	97	36-162	2	0-30	
Diisopropyl Ether (DIPE)	104	104	60-138	0	0-45	
Ethyl-t-Butyl Ether (ETBE)	101	101	69-123	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	98	101	65-120	3	0-20	
Ethanol	112	111	30-180	1	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/22/09
Work Order No:	09-10-1754
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2004-1	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09**	**091027S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	108	76-124	1	0-20	
Carbon Tetrachloride	99	98	74-134	1	0-20	
Chlorobenzene	100	101	80-120	1	0-20	
1,2-Dibromoethane	112	108	80-120	4	0-20	
1,2-Dichlorobenzene	96	99	80-120	4	0-20	
1,1-Dichloroethene	139	116	73-127	18	0-20	3
Ethylbenzene	98	100	78-126	2	0-20	
Toluene	95	98	80-120	3	0-20	
Trichloroethene	104	105	77-120	1	0-20	
Vinyl Chloride	111	104	72-126	6	0-20	
Methyl-t-Butyl Ether (MTBE)	108	106	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	64	75	36-162	15	0-30	
Diisopropyl Ether (DIPE)	103	111	60-138	8	0-45	
Ethyl-t-Butyl Ether (ETBE)	97	98	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	89	86	65-120	4	0-20	
Ethanol	88	105	30-180	18	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,829	**Aqueous**	**ICP 5300**	**10/22/09**	**10/23/09**	**091022LA6F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	92	94	80-120	73-127	1	0-20	
Arsenic	93	97	80-120	73-127	4	0-20	
Beryllium	91	100	80-120	73-127	10	0-20	
Cadmium	95	103	80-120	73-127	8	0-20	
Chromium	93	100	80-120	73-127	7	0-20	
Copper	95	102	80-120	73-127	7	0-20	
Lead	98	106	80-120	73-127	8	0-20	
Nickel	97	105	80-120	73-127	8	0-20	
Selenium	88	96	80-120	73-127	9	0-20	
Silver	104	113	80-120	73-127	8	0-20	
Thallium	94	100	80-120	73-127	7	0-20	
Zinc	98	106	80-120	73-127	7	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1754
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-883	**Solid**	**GC 47**	**10/23/09**	**10/26/09**	**091023B09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	97	103	75-123	7	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1754
Preparation:	EPA 3510C
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,393	**Aqueous**	**GC 27**	**10/23/09**	**10/27/09**	**091023B16**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	115	115	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1754
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-429	**Aqueous**	**FLAA2**	**10/29/09**	**NONE**	**091029L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	3.75	3.71	99	57-135	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1754
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,386	**Aqueous**	**Mercury**	**10/22/09**	**10/23/09**	**091022L10F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	99	99	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,776	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09**	**091023L09**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	59	59	4-142	0-165	1	0-24	
2-Chlorophenol	94	94	53-113	43-123	0	0-17	
1,4-Dichlorobenzene	89	90	50-122	38-134	1	0-19	
N-Nitroso-di-n-propylamine	108	109	56-146	41-161	2	0-22	
Naphthalene	87	88	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	101	102	55-121	44-132	1	0-18	
Dimethyl Phthalate	91	92	0-112	0-131	0	0-20	
Acenaphthylene	94	94	33-145	14-164	0	0-20	
Acenaphthene	100	102	55-139	41-153	2	0-17	
4-Nitrophenol	10	10	1-145	0-169	2	0-29	
2,4-Dinitrotoluene	98	98	41-161	21-181	0	0-22	
Fluorene	100	102	59-121	49-131	2	0-20	
Pentachlorophenol	85	85	34-130	18-146	0	0-23	
Pyrene	112	112	38-170	16-192	0	0-27	
Butyl Benzyl Phthalate	105	105	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	92	92	49-121	37-133	0	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-228	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/28/09**	**091023L15**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	86	86	21-133	2-152	0	0-25	
2-Methylnaphthalene	86	87	21-140	1-160	1	0-25	
1-Methylnaphthalene	86	87	20-140	0-160	1	0-25	
Acenaphthylene	78	79	33-145	14-164	1	0-25	
Acenaphthene	85	85	55-121	44-132	0	0-25	
Fluorene	89	89	59-121	49-131	0	0-25	
Phenanthrene	84	84	54-120	43-131	0	0-25	
Anthracene	65	64	27-133	9-151	1	0-25	
Fluoranthene	76	77	26-137	8-156	1	0-25	
Pyrene	78	79	45-129	31-143	1	0-25	
Benzo (a) Anthracene	81	81	33-143	15-161	1	0-25	
Chrysene	78	78	17-168	0-193	0	0-25	
Benzo (k) Fluoranthene	89	90	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	90	89	24-159	2-182	1	0-25	
Benzo (a) Pyrene	77	77	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	88	88	0-171	0-200	0	0-25	
Dibenz (a,h) Anthracene	85	84	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	84	84	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-755	**Solid**	**GC 44**	**10/24/09**	**10/27/09**	**0910224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	83	86	50-135	36-149	3	0-25	
Gamma-BHC	87	89	50-135	36-149	3	0-25	
Beta-BHC	97	99	50-135	36-149	2	0-25	
Heptachlor	86	88	50-135	36-149	3	0-25	
Delta-BHC	104	105	50-135	36-149	1	0-25	
Aldrin	84	85	50-135	36-149	1	0-25	
Heptachlor Epoxide	81	82	50-135	36-149	1	0-25	
Endosulfan I	76	77	50-135	36-149	1	0-25	
Dieldrin	91	92	50-135	36-149	2	0-25	
4,4'-DDE	110	113	50-135	36-149	3	0-25	
Endrin	98	101	50-135	36-149	3	0-25	
Endrin Aldehyde	91	93	50-135	36-149	2	0-25	
4,4'-DDD	95	96	50-135	36-149	1	0-25	
Endosulfan II	92	93	50-135	36-149	1	0-25	
4,4'-DDT	98	101	50-135	36-149	3	0-25	
Endosulfan Sulfate	91	93	50-135	36-149	2	0-25	
Methoxychlor	99	101	50-135	36-149	3	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3510C
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-306	**Aqueous**	**GC 44**	**10/23/09**	**10/26/09**	**091023L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	90	93	50-135	36-149	3	0-25	
Gamma-BHC	91	93	50-135	36-149	2	0-25	
Beta-BHC	94	91	50-135	36-149	3	0-25	
Heptachlor	90	91	50-135	36-149	1	0-25	
Delta-BHC	91	87	50-135	36-149	5	0-25	
Aldrin	85	87	50-135	36-149	2	0-25	
Heptachlor Epoxide	90	91	50-135	36-149	1	0-25	
Endosulfan I	84	90	50-135	36-149	6	0-25	
Dieldrin	84	85	50-135	36-149	1	0-25	
4,4'-DDE	101	96	50-135	36-149	5	0-25	
Endrin	101	100	50-135	36-149	1	0-25	
Endrin Aldehyde	94	97	50-135	36-149	3	0-25	
4,4'-DDD	97	98	50-135	36-149	1	0-25	
Endosulfan II	90	91	50-135	36-149	1	0-25	
4,4'-DDT	99	100	50-135	36-149	0	0-25	
Endosulfan Sulfate	84	86	50-135	36-149	2	0-25	
Methoxychlor	102	103	50-135	36-149	2	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1754
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-804	**Solid**	**GC 31**	**10/24/09**	**10/27/09**	**091024L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	77	83	50-135	8	0-20	
Aroclor-1260	108	120	50-135	11	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-974	**Solid**	**GC/MS SS**	**10/25/09**	**10/28/09**	**091025L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	87	87	59-125	48-136	0	0-15	
2-Chlorophenol	88	87	60-114	51-123	0	0-15	
1,4-Dichlorobenzene	91	91	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	91	91	64-136	52-148	0	0-15	
1,2,4-Trichlorobenzene	92	91	58-118	48-128	0	0-18	
Naphthalene	83	83	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	91	91	61-121	51-131	0	0-14	
Dimethyl Phthalate	82	83	0-112	0-131	1	0-20	
Acenaphthylene	79	79	33-145	14-164	0	0-20	
Acenaphthene	87	86	59-125	48-136	1	0-15	
4-Nitrophenol	91	91	38-152	19-171	0	0-31	
2,4-Dinitrotoluene	88	89	51-141	36-156	0	0-16	
Fluorene	90	90	59-121	49-131	0	0-20	
Pentachlorophenol	73	73	38-116	25-129	1	0-20	
Pyrene	91	91	51-141	36-156	1	0-14	
Butyl Benzyl Phthalate	88	88	0-152	0-177	0	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3510C
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-957-25	**Aqueous**	**GC 35**	**10/23/09**	**10/26/09**	**091023L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	96	99	30-130	13-147	3	0-30	
Bolstar	86	88	30-130	13-147	3	0-30	
Chlorpyrifos	88	92	30-130	13-147	5	0-30	
Coumaphos	101	104	30-130	13-147	3	0-30	
Diazinon	96	99	30-130	13-147	3	0-30	
Disulfoton	103	108	30-130	13-147	4	0-30	
Ethoprop	98	105	30-130	13-147	7	0-30	
Fensulfothion	107	111	30-130	13-147	3	0-30	
Fenthion	97	100	30-130	13-147	3	0-30	
Merphos	61	66	30-130	13-147	8	0-30	
Methyl Parathion	91	96	30-130	13-147	5	0-30	
Phorate	110	115	30-130	13-147	5	0-30	
Ronnel	88	93	30-130	13-147	6	0-30	
Stirophos	106	110	30-130	13-147	4	0-30	
Tokuthion	82	86	30-130	13-147	5	0-30	
Trichloronate	94	106	30-130	13-147	11	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-13	**Solid**	**GC 35**	**10/24/09**	**10/27/09**	**091024L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	93	98	30-130	13-147	5	0-30	
Bolstar	82	84	30-130	13-147	2	0-30	
Chlorpyrifos	84	87	30-130	13-147	4	0-30	
Coumaphos	95	99	30-130	13-147	4	0-30	
Diazinon	91	95	30-130	13-147	4	0-30	
Disulfoton	96	103	30-130	13-147	6	0-30	
Ethoprop	88	103	30-130	13-147	15	0-30	
Fensulfothion	101	105	30-130	13-147	4	0-30	
Fenthion	90	95	30-130	13-147	6	0-30	
Merphos	63	70	30-130	13-147	10	0-30	
Methyl Parathion	87	93	30-130	13-147	6	0-30	
Phorate	101	113	30-130	13-147	12	0-30	
Ronnel	84	88	30-130	13-147	4	0-30	
Stirophos	102	107	30-130	13-147	5	0-30	
Tokuthion	77	81	30-130	13-147	6	0-30	
Trichloronate	87	91	30-130	13-147	4	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,401	**Solid**	**GC/MS RR**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	97	85-115	80-120	1	0-11	
Carbon Tetrachloride	94	92	68-134	57-145	2	0-14	
Chlorobenzene	103	103	83-119	77-125	0	0-9	
1,2-Dibromoethane	103	105	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	102	103	57-135	44-148	0	0-10	
1,1-Dichloroethene	92	90	72-120	64-128	2	0-10	
Ethylbenzene	109	109	80-120	73-127	1	0-20	
Toluene	99	97	67-127	57-137	1	0-10	
Trichloroethene	96	96	88-112	84-116	0	0-9	
Vinyl Chloride	87	84	57-129	45-141	4	0-16	
Methyl-t-Butyl Ether (MTBE)	91	92	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	101	99	31-145	12-164	3	0-23	
Diisopropyl Ether (DIPE)	92	92	74-128	65-137	0	0-10	
Ethyl-t-Butyl Ether (ETBE)	92	94	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	100	100	81-123	74-130	1	0-10	
Ethanol	139	115	44-152	26-170	19	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,274	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	116	80-120	73-127	12	0-20	
Carbon Tetrachloride	103	117	74-134	64-144	13	0-20	
Chlorobenzene	98	108	80-120	73-127	10	0-20	
1,2-Dibromoethane	100	105	79-121	72-128	5	0-20	
1,2-Dichlorobenzene	97	106	80-120	73-127	9	0-20	
1,1-Dichloroethene	105	120	78-126	70-134	13	0-28	
Ethylbenzene	96	107	80-120	73-127	11	0-20	
Toluene	100	114	80-120	73-127	13	0-20	
Trichloroethene	99	113	79-127	71-135	13	0-20	
Vinyl Chloride	98	110	72-132	62-142	11	0-20	
Methyl-t-Butyl Ether (MTBE)	104	112	69-123	60-132	7	0-20	
Tert-Butyl Alcohol (TBA)	95	96	63-123	53-133	1	0-20	
Diisopropyl Ether (DIPE)	108	120	59-137	46-150	11	0-37	
Ethyl-t-Butyl Ether (ETBE)	102	112	69-123	60-132	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	102	108	70-120	62-128	6	0-20	
Ethanol	104	109	28-160	6-182	5	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1754
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,276	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09**	**091027L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	102	80-120	73-127	0	0-20	
Carbon Tetrachloride	81	85	74-134	64-144	5	0-20	
Chlorobenzene	102	101	80-120	73-127	1	0-20	
1,2-Dibromoethane	97	100	79-121	72-128	3	0-20	
1,2-Dichlorobenzene	100	100	80-120	73-127	0	0-20	
1,1-Dichloroethene	97	101	78-126	70-134	4	0-28	
Ethylbenzene	104	99	80-120	73-127	5	0-20	
Toluene	106	102	80-120	73-127	4	0-20	
Trichloroethene	98	99	79-127	71-135	1	0-20	
Vinyl Chloride	94	94	72-132	62-142	0	0-20	
Methyl-t-Butyl Ether (MTBE)	79	88	69-123	60-132	10	0-20	
Tert-Butyl Alcohol (TBA)	82	78	63-123	53-133	5	0-20	
Diisopropyl Ether (DIPE)	90	96	59-137	46-150	5	0-37	
Ethyl-t-Butyl Ether (ETBE)	85	92	69-123	60-132	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	87	94	70-120	62-128	7	0-20	
Ethanol	93	88	28-160	6-182	6	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1754

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Project Number/Name RC000746.0002.00005

Project Location PG&E Radback - Oakley, CA

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation LK-CM/ARCADIS

1754

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D 1,500-mL amber, unp	VOCs w/MTBE, DIPE, ETBE, TAME, TBA 3 VOAs w/HCL	SVOC w/TICS 1 1-L amber, unp.	PAHs 1 1-L amber, unp	Organochlorine Pest. 1 1-L amber, unp.	Organophosphorus Pest. 1 1-L amber, unp	Remarks	Total
CPT-5G 15	W	10/21/09 11:00	1	✓	✓	✓	✓	✓	✓		109
CPT-5G 23	W	10/21/09 11:40	2	✓	✓	✓	✓				65
~~CPT-4G~~	~~W~~	~~10/21/09~~		~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~CPT-4G~~	~~108~~
~~CPT-4G~~	~~W~~	~~10/21/09~~		~~✓~~	~~✓~~	~~✓~~	~~✓~~			~~CPT-4G~~	~~6~~
OK ~~CPT-4G 1.0-1.5~~	~~S~~	~~10/21/09 12:50~~	3	✓	✓	✓		✓	✓		4
CPT-4G 4.5-5.0	S	10/21/09 12:58	4	✓	✓	✓		✓	✓		4
CPT-5G 1.0-1.5	S	10/21/09 09:10	5	✓	✓	✓		✓	✓		4
CPT-5G 4.5-5.0	S	10/21/09 09:28	6	✓	✓	✓		✓	✓		4
CPT-3G 1.0-1.5	S	10/21/09 14:30	7	✓	✓	✓		✓	✓		4
CPT-3G 4.5-5.0	S	10/21/09 14:38	8	✓	✓	✓		✓	✓		4
CPT-6G 1.0-1.5	S	10/21/09 15:00	9	✓	✓	✓		✓	✓		4
CPT-6G 4.5-5.0	S	10/21/09 15:15	10	✓	✓	✓		✓	✓		4

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: [signature]	Organization: ARCADIS	Date 10/21/09	Time 1610	Seal Intact? Yes No N/A
Received by: Tom O'Malley CEL	Organization: CALSCIENCE	Date 10/21/09	Time 1615	
Relinquished by: [signature] TO GSD	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1015	

Special Instructions/Remarks:

680 512875733

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name: PC000746.0002.00005

Project Location: PGE-Radback - Oakley, CA

Laboratory: Cal Science

Project Manager: K. Brandt

Sampler(s)/Affiliation: LK-CM/ARCADIS

1754

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Priority Pollutant Metals	RCBs (EPA 8082)	Organic Lead				Remarks	Total
1	CPT-5@15	W	10/21/09 11:00	11	✓		✓				lab filter & preserve	2
2	CPT-5@23	W	10/21/09 11:40	12	✓						" "	1
5	CPT-5@1.0-1.5	S	10/21/09 09:40	13		✓						1
6	CPT-5@4.5-5.0	S	10/21/09 09:28	14		✓						1
3	CPT-4@1.0-1.5	S	10/21/09 12:50	15		✓						1
4	CPT-4@4.5-5.0	S	10/21/09 12:58	16		✓						1
	~~CPT-4@~~	~~W~~	~~10/21/09~~		✓		✓					
	~~CPT-4@~~	~~W~~	~~10/21/09~~		✓							
7	CPT-3@1.0-1.5	S	10/21/09 14:30	17		✓						1
8	CPT-3@4.5-5.0	S	10/21/09 14:38	18		✓						1
9	CPT-6@1.0-1.5	S	10/21/09 15:00	19		✓						1
10	CPT-6@4.5-5.0	S	10/21/09 15:15	20		✓						1
				C 10/22/09								

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: _____

Relinquished by: [signature]	Organization: arcadis	Date 10/21/09	Time 1615	Seal Intact? Yes No N/A
Received by: Tom Grady CLT	Organization: CALscience	Date 10/21/09	Time 1615	
Relinquished by: [signature] TO GSD	Organization: CEL	Date 10/21/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CA	Date 10/22/09	Time 1015	

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1754

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/22/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☐	☑	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑ 4ozCGJ (2 (-8A)) ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve ☐ EnCores® ☑ TerraCores® (3) ☑ 2oz PJ

Water: ☐ VOA ☑ VOAh (3) ☐ VOA**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s**

☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☑ 1PB ☐ 500PB ☐ 500PB**na**

☑ 250PB ☐ 250PB**n** ☐ 125PB ☐ 125PB**znna** ☐ 100PJ ☐ 100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐ Tedlar® ☐ Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** YC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** WSC

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** YC

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1 7 5 4

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☑ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s)/preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☑ **# of Containers**
  - ☐ **Analysis**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Air sample containers compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-1) to (-2) Received 1 pB unpreserved for all SVOA test

(-2) Received 8 Containers

(-7) to (-8) Received 6 Containers (2 Jar + Terracores)

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date YC 10/22/09

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-A**	**10/22/09 08:57**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 16:34**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 1:45:46 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.36	0.750	1		Nickel	18.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	15.5	0.250	1		Thallium	ND	0.750	1	
Copper	10.3	0.500	1		Zinc	23.7	1.00	1	
Lead	3.48	0.500	1						

SB-60dup@1'	**09-10-1837-2-A**	**10/22/09 09:04**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 10:07**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 1:47:59 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.56	0.750	1		Nickel	18.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	15.1	0.250	1		Thallium	ND	0.750	1	
Copper	9.99	0.500	1		Zinc	23.6	1.00	1	
Lead	3.58	0.500	1						

SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 16:36**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 1:50:09 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.01	0.750	1		Nickel	14.5	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.8	0.250	1		Thallium	ND	0.750	1	
Copper	15.0	0.500	1		Zinc	32.8	1.00	1	
Lead	4.96	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 16:47**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 1:52:19 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.72	0.750	1		Nickel	16.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	13.1	0.250	1		Thallium	ND	0.750	1	
Copper	9.27	0.500	1		Zinc	24.1	1.00	1	
Lead	4.05	0.500	1						

SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 16:39**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 1:54:30 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.99	0.750	1		Nickel	16.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.1	0.250	1		Thallium	ND	0.750	1	
Copper	6.64	0.500	1		Zinc	19.4	1.00	1	
Lead	2.44	0.500	1						

SB-64@15'	**09-10-1837-6-A**	**10/22/09 11:42**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 16:40**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 2:01:11 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.13	0.750	1		Nickel	20.0	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.3	0.250	1		Thallium	ND	0.750	1	
Copper	6.18	0.500	1		Zinc	20.1	1.00	1	
Lead	2.08	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@1'	**09-10-1837-7-A**	**10/22/09 11:57**	**Solid**	**ICP 5300**	**10/27/09**	**10/29/09 18:37**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 2:03:23 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.18	0.750	1		Nickel	12.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	10.1	0.250	1		Thallium	ND	0.750	1	
Copper	14.2	0.500	1		Zinc	22.9	1.00	1	
Lead	10.2	0.500	1						

SB-62@15'	**09-10-1837-9-A**	**10/22/09 12:23**	**Solid**	**ICP 5300**	**10/27/09**	**10/29/09 18:38**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 2:05:36 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.26	0.750	1		Nickel	20.2	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.8	0.250	1		Thallium	ND	0.750	1	
Copper	6.46	0.500	1		Zinc	21.2	1.00	1	
Lead	2.20	0.500	1						

SB-63@1'	**09-10-1837-10-A**	**10/22/09 13:31**	**Solid**	**ICP 5300**	**10/27/09**	**10/29/09 18:40**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 2:07:49 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.98	0.750	1		Nickel	10.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.72	0.250	1		Thallium	ND	0.750	1	
Copper	6.25	0.500	1		Zinc	20.8	1.00	1	
Lead	4.52	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@15'	**09-10-1837-12-A**	**10/22/09 13:48**	**Solid**	**ICP 5300**	**10/27/09**	**10/29/09 18:41**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 2:10:03 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	1.10	0.750	1		Mercury	ND	0.0835	1	
Arsenic	3.28	0.750	1		Nickel	18.4	0.250	1	
Beryllium	0.265	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	16.5	0.250	1		Thallium	ND	0.750	1	
Copper	10.5	0.500	1		Zinc	29.5	1.00	1	
Lead	3.90	0.500	1						

SB-65@15'	**09-10-1837-13-A**	**10/22/09 14:07**	**Solid**	**ICP 5300**	**10/27/09**	**10/29/09 18:45**	**091027L01**

Comment(s): -Mercury was analyzed on 10/27/2009 2:12:17 PM with batch 091027L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	0.856	0.750	1		Mercury	ND	0.0835	1	
Arsenic	6.23	0.750	1		Nickel	24.8	0.250	1	
Beryllium	0.514	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	19.8	0.250	1		Thallium	ND	0.750	1	
Copper	21.5	0.500	1		Zinc	58.7	1.00	1	
Lead	8.00	0.500	1						

Method Blank	**099-04-007-6,622**	**N/A**	**Solid**	**Mercury**	**10/27/09**	**10/27/09 13:34**	**091027L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,868**	**N/A**	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09 10:00**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-A**	**10/22/09 08:57**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 15:05**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

SB-60dup@1'	**09-10-1837-2-A**	**10/22/09 09:04**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 15:21**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	61-145	

SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 15:37**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	61-145	

SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 15:53**	**091027B02**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	16	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 16:10**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-64@15'	**09-10-1837-6-A**	**10/22/09 11:42**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 16:26**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@1'	**09-10-1837-7-A**	**10/22/09 11:57**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 16:42**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@15'	**09-10-1837-9-A**	**10/22/09 12:23**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 16:58**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@1'	**09-10-1837-10-A**	**10/22/09 13:31**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 17:14**	**091027B02**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	6.8	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	61-145	

SB-63@15'	**09-10-1837-12-A**	**10/22/09 13:48**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 17:30**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	117	61-145	

SB-65@15'	**09-10-1837-13-A**	**10/22/09 14:07**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 18:02**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

Method Blank	**099-12-025-886**	**N/A**	**Solid**	**GC 47**	**10/27/09**	**10/28/09 13:44**	**091027B02**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-64@15'	**09-10-1837-6-A**	**10/22/09 11:42**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-62@15'	**09-10-1837-9-A**	**10/22/09 12:23**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-63@15'	**09-10-1837-12-A**	**10/22/09 13:48**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-65@15'	**09-10-1837-13-A**	**10/22/09 14:07**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,276**	**N/A**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-A**	**10/22/09 08:57**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 13:14**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	42-120		Phenol-d6	88	46-118	
Nitrobenzene-d5	85	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	77	36-132		p-Terphenyl-d14	96	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60dup@1'	**09-10-1837-2-A**	**10/22/09 09:04**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 13:40**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	42-120		Phenol-d6	95	46-118	
Nitrobenzene-d5	93	42-150		2-Fluorobiphenyl	92	38-134	
2,4,6-Tribromophenol	83	36-132		p-Terphenyl-d14	105	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-64@15'	**09-10-1837-6-A**	**10/22/09 11:42**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 15:25**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	42-120		Phenol-d6	87	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	76	36-132		p-Terphenyl-d14	94	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@1'	**09-10-1837-7-A**	**10/22/09 11:57**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 15:52**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	91	42-120		Phenol-d6	96	46-118	
Nitrobenzene-d5	93	42-150		2-Fluorobiphenyl	90	38-134	
2,4,6-Tribromophenol	82	36-132		p-Terphenyl-d14	104	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@15'	**09-10-1837-9-A**	**10/22/09 12:23**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 16:18**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	88	42-120		Phenol-d6	93	46-118	
Nitrobenzene-d5	89	42-150		2-Fluorobiphenyl	87	38-134	
2,4,6-Tribromophenol	81	36-132		p-Terphenyl-d14	98	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@1'	**09-10-1837-10-A**	**10/22/09 13:31**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 16:44**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	85	42-120		Phenol-d6	89	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	88	38-134	
2,4,6-Tribromophenol	78	36-132		p-Terphenyl-d14	101	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@15'	**09-10-1837-12-A**	**10/22/09 13:48**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 17:10**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	76	42-120		Phenol-d6	83	46-118	
Nitrobenzene-d5	78	42-150		2-Fluorobiphenyl	55	38-134	
2,4,6-Tribromophenol	68	36-132		p-Terphenyl-d14	99	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-65@15'	**09-10-1837-13-A**	**10/22/09 14:07**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 17:36**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	42-120		Phenol-d6	89	46-118	
Nitrobenzene-d5	84	42-150		2-Fluorobiphenyl	73	38-134	
2,4,6-Tribromophenol	73	36-132		p-Terphenyl-d14	105	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-975**	**N/A**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 11:55**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
Aniline	ND	0.50	0.056	1		4-Nitrophenol	ND	0.50	0.051	1	
Phenol	ND	0.50	0.079	1		Dibenzofuran	ND	0.50	0.097	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
2-Chlorophenol	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		Diethyl Phthalate	ND	0.50	0.060	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
Benzyl Alcohol	ND	0.50	0.054	1		Fluorene	ND	0.50	0.089	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		4-Nitroaniline	ND	0.50	0.051	1	
2-Methylphenol	ND	0.50	0.068	1		Azobenzene	ND	0.50	0.10	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
3/4-Methylphenol	ND	0.50	0.058	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
Hexachloroethane	ND	0.50	0.096	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
Nitrobenzene	ND	2.5	0.10	1		Hexachlorobenzene	ND	0.50	0.14	1	
Isophorone	ND	0.50	0.053	1		Pentachlorophenol	ND	2.5	0.88	1	
2-Nitrophenol	ND	0.50	0.063	1		Phenanthrene	ND	0.50	0.098	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Anthracene	ND	0.50	0.10	1	
Benzoic Acid	ND	2.5	0.56	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Fluoranthene	ND	0.50	0.11	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyrene	ND	0.50	0.10	1	
Naphthalene	ND	0.50	0.11	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Benzo (a) Anthracene	ND	0.50	0.11	1	
2-Methylnaphthalene	ND	0.50	0.10	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
1-Methylnaphthalene	ND	0.50	0.095	1		Chrysene	ND	0.50	0.11	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	
2,4,5-Trichlorophenol	ND	0.50	0.067	1		Benzo (k) Fluoranthene	ND	0.50	0.13	1	
2-Chloronaphthalene	ND	0.50	0.099	1		Benzo (b) Fluoranthene	ND	0.50	0.11	1	
2-Nitroaniline	ND	0.50	0.047	1		Benzo (a) Pyrene	ND	0.50	0.12	1	
Dimethyl Phthalate	ND	0.50	0.051	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.23	1	
Acenaphthylene	ND	0.50	0.082	1		Dibenz (a,h) Anthracene	ND	0.50	0.20	1	
3-Nitroaniline	ND	0.50	0.054	1		Benzo (g,h,i) Perylene	ND	0.50	0.25	1	
Acenaphthene	ND	0.50	0.24	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 14:07**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	42-120		Phenol-d6	88	46-118	
Nitrobenzene-d5	87	42-150		2-Fluorobiphenyl	85	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	98	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 14:33**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	90	42-120		Phenol-d6	94	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	87	38-134	
2,4,6-Tribromophenol	85	36-132		p-Terphenyl-d14	103	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 14:59**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	75	42-120		Phenol-d6	79	46-118	
Nitrobenzene-d5	78	42-150		2-Fluorobiphenyl	76	38-134	
2,4,6-Tribromophenol	67	36-132		p-Terphenyl-d14	87	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-975**	**N/A**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 11:55**	**091026L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	0.091	1		2,4,5-Trichlorophenol	ND	0.50	0.067	1	
Aniline	ND	0.50	0.056	1		2-Nitroaniline	ND	0.50	0.047	1	
Phenol	ND	0.50	0.079	1		Dimethyl Phthalate	ND	0.50	0.051	1	
Bis(2-Chloroethyl) Ether	ND	2.5	0.10	1		3-Nitroaniline	ND	0.50	0.054	1	
2-Chlorophenol	ND	0.50	0.10	1		2,4-Dinitrophenol	ND	2.5	0.97	1	
1,3-Dichlorobenzene	ND	0.50	0.10	1		4-Nitrophenol	ND	0.50	0.051	1	
1,4-Dichlorobenzene	ND	0.50	0.15	1		Dibenzofuran	ND	0.50	0.097	1	
Benzyl Alcohol	ND	0.50	0.054	1		2,4-Dinitrotoluene	ND	0.50	0.056	1	
1,2-Dichlorobenzene	ND	0.50	0.10	1		2,6-Dinitrotoluene	ND	0.50	0.053	1	
2-Methylphenol	ND	0.50	0.068	1		Diethyl Phthalate	ND	0.50	0.060	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.092	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	0.10	1	
3/4-Methylphenol	ND	0.50	0.058	1		4-Nitroaniline	ND	0.50	0.051	1	
N-Nitroso-di-n-propylamine	ND	0.50	0.082	1		Azobenzene	ND	0.50	0.10	1	
Hexachloroethane	ND	0.50	0.096	1		4,6-Dinitro-2-Methylphenol	ND	2.5	0.99	1	
Nitrobenzene	ND	2.5	0.10	1		N-Nitrosodiphenylamine	ND	0.50	0.074	1	
Isophorone	ND	0.50	0.053	1		2,4,6-Trichlorophenol	ND	0.50	0.062	1	
2-Nitrophenol	ND	0.50	0.063	1		4-Bromophenyl-Phenyl Ether	ND	0.50	0.094	1	
2,4-Dimethylphenol	ND	0.50	0.085	1		Hexachlorobenzene	ND	0.50	0.14	1	
Benzoic Acid	ND	2.5	0.56	1		Pentachlorophenol	ND	2.5	0.88	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.082	1		Di-n-Butyl Phthalate	ND	0.50	0.12	1	
2,4-Dichlorophenol	ND	0.50	0.065	1		Benzidine	ND	10	1.2	1	
1,2,4-Trichlorobenzene	ND	0.50	0.20	1		Pyridine	ND	0.50	0.082	1	
4-Chloroaniline	ND	0.50	0.061	1		Butyl Benzyl Phthalate	ND	0.50	0.12	1	
Hexachloro-1,3-Butadiene	ND	0.50	0.088	1		3,3'-Dichlorobenzidine	ND	10	1.1	1	
4-Chloro-3-Methylphenol	ND	0.50	0.059	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.16	1	
Hexachlorocyclopentadiene	ND	2.5	0.83	1		Di-n-Octyl Phthalate	ND	0.50	0.24	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C SIM PAHs
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**GC/MS AAA**	**10/29/09**	**10/29/09 20:18**	**091029L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	97	14-146		Nitrobenzene-d5	97	18-162	
p-Terphenyl-d14	69	34-148					

SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**GC/MS AAA**	**10/29/09**	**10/29/09 20:40**	**091029L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	80	14-146		Nitrobenzene-d5	83	18-162	
p-Terphenyl-d14	65	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C SIM PAHs
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**GC/MS AAA**	**10/29/09**	**10/29/09 21:02**	**091029L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	81	14-146		Nitrobenzene-d5	84	18-162	
p-Terphenyl-d14	61	34-148					

Method Blank	**099-06-010-388**	**N/A**	**Solid**	**GC/MS AAA**	**10/29/09**	**10/29/09 15:27**	**091029L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	0.020	0.0037	1		Pyrene	ND	0.020	0.0033	1	
2-Methylnaphthalene	ND	0.020	0.0024	1		Benzo (a) Anthracene	ND	0.020	0.0026	1	
1-Methylnaphthalene	ND	0.020	0.0043	1		Chrysene	ND	0.020	0.0047	1	
Acenaphthylene	ND	0.020	0.0024	1		Benzo (k) Fluoranthene	ND	0.020	0.0045	1	
Acenaphthene	ND	0.020	0.0050	1		Benzo (b) Fluoranthene	ND	0.020	0.0014	1	
Fluorene	ND	0.020	0.0031	1		Benzo (a) Pyrene	ND	0.020	0.0020	1	
Phenanthrene	ND	0.020	0.0038	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	0.0035	1	
Anthracene	ND	0.020	0.0062	1		Dibenz (a,h) Anthracene	ND	0.020	0.0027	1	
Fluoranthene	ND	0.020	0.0019	1		Benzo (g,h,i) Perylene	ND	0.020	0.0033	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	97	14-146		Nitrobenzene-d5	97	18-162	
p-Terphenyl-d14	84	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-A**	**10/22/09 08:57**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 03:48**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	56	50-130		2,4,5,6-Tetrachloro-m-Xylene	53	50-130	

SB-60dup@1'	**09-10-1837-2-A**	**10/22/09 09:04**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 04:07**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-130		2,4,5,6-Tetrachloro-m-Xylene	82	50-130	

SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 04:26**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 04:45**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-130		2,4,5,6-Tetrachloro-m-Xylene	79	50-130	

SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 05:04**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-130		2,4,5,6-Tetrachloro-m-Xylene	92	50-130	

SB-62@1'	**09-10-1837-7-A**	**10/22/09 11:57**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 05:23**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	50-130		2,4,5,6-Tetrachloro-m-Xylene	86	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@1'	**09-10-1837-10-A**	**10/22/09 13:31**	**Solid**	**GC 31**	**10/24/09**	**10/28/09 05:42**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	58	50-130		2,4,5,6-Tetrachloro-m-Xylene	54	50-130	

Method Blank	**099-12-535-803**	**N/A**	**Solid**	**GC 31**	**10/24/09**	**10/27/09 22:23**	**091024L12**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Aroclor-1016	ND	50	10	1		Aroclor-1248	ND	50	10	1	
Aroclor-1221	ND	50	10	1		Aroclor-1254	ND	50	10	1	
Aroclor-1232	ND	50	10	1		Aroclor-1260	ND	50	11	1	
Aroclor-1242	ND	50	10	1		Aroclor-1262	ND	50	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	114	50-130		2,4,5,6-Tetrachloro-m-Xylene	80	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-A**	**10/22/09 08:57**	**Solid**	**GC 37**	**10/24/09**	**10/27/09 22:20**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	8.1	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	13	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	64	50-135		2,4,5,6-Tetrachloro-m-Xylene	53	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60dup@1'	**09-10-1837-2-A**	**10/22/09 09:04**	**Solid**	**GC 51**	**10/24/09**	**10/29/09 03:33**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	9.6	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	16	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**GC 37**	**10/24/09**	**10/27/09 22:48**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	38	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	62	10	3.0	2		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-135		2,4,5,6-Tetrachloro-m-Xylene	87	50-135	

SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**GC 37**	**10/24/09**	**10/27/09 23:16**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	3.2	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	50-135		2,4,5,6-Tetrachloro-m-Xylene	76	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**GC 37**	**10/24/09**	**10/27/09 23:44**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	50-135		2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@1'	**09-10-1837-7-A**	**10/22/09 11:57**	**Solid**	**GC 37**	**10/24/09**	**10/28/09 00:12**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	6.8	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	7.4	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	50-135		2,4,5,6-Tetrachloro-m-Xylene	89	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8081A
Units:	ug/kg
	Page 4 of 4

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@1'	**09-10-1837-10-A**	**10/22/09 13:31**	**Solid**	**GC 37**	**10/24/09**	**10/28/09 00:40**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	2.5	5.0	1.5	1	J	Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	64	50-135		2,4,5,6-Tetrachloro-m-Xylene	54	50-135	

Method Blank	**099-12-537-756**	**N/A**	**Solid**	**GC 51**	**10/24/09**	**10/27/09 16:41**	**091024L11**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	5.0	1.5	1		Endrin	ND	5.0	1.0	1	
Gamma-BHC	ND	5.0	1.1	1		Endrin Aldehyde	ND	5.0	0.98	1	
Beta-BHC	ND	5.0	1.3	1		4,4'-DDD	ND	5.0	1.3	1	
Heptachlor	ND	5.0	1.1	1		Endosulfan II	ND	5.0	0.88	1	
Delta-BHC	ND	5.0	1.6	1		4,4'-DDT	ND	5.0	1.6	1	
Aldrin	ND	5.0	1.5	1		Endosulfan Sulfate	ND	5.0	1.3	1	
Heptachlor Epoxide	ND	5.0	0.92	1		Methoxychlor	ND	5.0	0.84	1	
Endosulfan I	ND	5.0	1.8	1		Chlordane	ND	50	20	1	
Dieldrin	ND	5.0	1.1	1		Toxaphene	ND	100	42	1	
4,4'-DDE	ND	5.0	1.5	1		Endrin Ketone	ND	5.0	1.5	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-135		2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-A**	**10/22/09 08:57**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 19:34**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	114	30-130	

SB-60dup@1'	**09-10-1837-2-A**	**10/22/09 09:04**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 20:19**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	121	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5@1'	**09-10-1837-3-A**	**10/22/09 09:13**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 21:05**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	131	30-130	2

SB-19@1'	**09-10-1837-4-A**	**10/22/09 09:27**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 21:51**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	124	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6@1'	**09-10-1837-5-A**	**10/22/09 09:38**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 22:36**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	60	30-130	

SB-62@1'	**09-10-1837-7-A**	**10/22/09 11:57**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 23:22**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	113	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@1'	**09-10-1837-10-A**	**10/22/09 13:31**	**Solid**	**GC 35**	**10/24/09**	**10/29/09 00:08**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	94	30-130	

Method Blank	**099-12-465-14**	**N/A**	**Solid**	**GC 35**	**10/24/09**	**10/28/09 17:16**	**091024L14**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	97	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60@1'	**09-10-1837-1-D**	**10/22/09 08:57**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 14:59**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	68	50	1.01		c-1,3-Dichloropropene	ND	1.0	1.01	
Benzene	ND	1.0	1.01		t-1,3-Dichloropropene	ND	2.0	1.01	
Bromobenzene	ND	1.0	1.01		Ethylbenzene	ND	1.0	1.01	
Bromochloromethane	ND	2.0	1.01		2-Hexanone	ND	20	1.01	
Bromodichloromethane	ND	1.0	1.01		Isopropylbenzene	ND	1.0	1.01	
Bromoform	ND	5.0	1.01		p-Isopropyltoluene	ND	1.0	1.01	
Bromomethane	ND	20	1.01		Methylene Chloride	ND	10	1.01	
2-Butanone	ND	20	1.01		4-Methyl-2-Pentanone	ND	20	1.01	
n-Butylbenzene	ND	1.0	1.01		Naphthalene	ND	10	1.01	
sec-Butylbenzene	ND	1.0	1.01		n-Propylbenzene	ND	2.0	1.01	
tert-Butylbenzene	ND	1.0	1.01		Styrene	ND	1.0	1.01	
Carbon Disulfide	ND	10	1.01		1,1,1,2-Tetrachloroethane	ND	1.0	1.01	
Carbon Tetrachloride	ND	1.0	1.01		1,1,2,2-Tetrachloroethane	ND	2.0	1.01	
Chlorobenzene	ND	1.0	1.01		Tetrachloroethene	ND	1.0	1.01	
Chloroethane	ND	2.0	1.01		Toluene	ND	1.0	1.01	
Chloroform	ND	1.0	1.01		1,2,3-Trichlorobenzene	ND	2.0	1.01	
Chloromethane	ND	20	1.01		1,2,4-Trichlorobenzene	ND	2.0	1.01	
2-Chlorotoluene	ND	1.0	1.01		1,1,1-Trichloroethane	ND	1.0	1.01	
4-Chlorotoluene	ND	1.0	1.01		1,1,2-Trichloroethane	ND	1.0	1.01	
Dibromochloromethane	ND	2.0	1.01		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.01	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.01		Trichloroethene	ND	2.0	1.01	
1,2-Dibromoethane	ND	1.0	1.01		Trichlorofluoromethane	ND	10	1.01	
Dibromomethane	ND	1.0	1.01		1,2,3-Trichloropropane	ND	2.0	1.01	
1,2-Dichlorobenzene	ND	1.0	1.01		1,2,4-Trimethylbenzene	ND	2.0	1.01	
1,3-Dichlorobenzene	ND	1.0	1.01		1,3,5-Trimethylbenzene	ND	2.0	1.01	
1,4-Dichlorobenzene	ND	1.0	1.01		Vinyl Acetate	ND	10	1.01	
Dichlorodifluoromethane	ND	2.0	1.01		Vinyl Chloride	ND	1.0	1.01	
1,1-Dichloroethane	ND	1.0	1.01		p/m-Xylene	ND	2.0	1.01	
1,2-Dichloroethane	ND	1.0	1.01		o-Xylene	ND	1.0	1.01	
1,1-Dichloroethene	ND	1.0	1.01		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.01	
c-1,2-Dichloroethene	ND	1.0	1.01		Tert-Butyl Alcohol (TBA)	ND	20	1.01	
t-1,2-Dichloroethene	ND	1.0	1.01		Diisopropyl Ether (DIPE)	ND	1.0	1.01	
1,2-Dichloropropane	ND	1.0	1.01		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.01	
1,3-Dichloropropane	ND	1.0	1.01		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.01	
2,2-Dichloropropane	ND	5.0	1.01		Ethanol	ND	500	1.01	
1,1-Dichloropropene	ND	2.0	1.01						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-60dup@1'	**09-10-1837-2-D**	**10/22/09 09:04**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 15:30**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	67	47	0.933		c-1,3-Dichloropropene	ND	0.93	0.933	
Benzene	ND	0.93	0.933		t-1,3-Dichloropropene	ND	1.9	0.933	
Bromobenzene	ND	0.93	0.933		Ethylbenzene	ND	0.93	0.933	
Bromochloromethane	ND	1.9	0.933		2-Hexanone	ND	19	0.933	
Bromodichloromethane	ND	0.93	0.933		Isopropylbenzene	ND	0.93	0.933	
Bromoform	ND	4.7	0.933		p-Isopropyltoluene	ND	0.93	0.933	
Bromomethane	ND	19	0.933		Methylene Chloride	ND	9.3	0.933	
2-Butanone	ND	19	0.933		4-Methyl-2-Pentanone	ND	19	0.933	
n-Butylbenzene	ND	0.93	0.933		Naphthalene	ND	9.3	0.933	
sec-Butylbenzene	ND	0.93	0.933		n-Propylbenzene	ND	1.9	0.933	
tert-Butylbenzene	ND	0.93	0.933		Styrene	ND	0.93	0.933	
Carbon Disulfide	ND	9.3	0.933		1,1,1,2-Tetrachloroethane	ND	0.93	0.933	
Carbon Tetrachloride	ND	0.93	0.933		1,1,2,2-Tetrachloroethane	ND	1.9	0.933	
Chlorobenzene	ND	0.93	0.933		Tetrachloroethene	ND	0.93	0.933	
Chloroethane	ND	1.9	0.933		Toluene	ND	0.93	0.933	
Chloroform	ND	0.93	0.933		1,2,3-Trichlorobenzene	ND	1.9	0.933	
Chloromethane	ND	19	0.933		1,2,4-Trichlorobenzene	ND	1.9	0.933	
2-Chlorotoluene	ND	0.93	0.933		1,1,1-Trichloroethane	ND	0.93	0.933	
4-Chlorotoluene	ND	0.93	0.933		1,1,2-Trichloroethane	ND	0.93	0.933	
Dibromochloromethane	ND	1.9	0.933		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.933	
1,2-Dibromo-3-Chloropropane	ND	4.7	0.933		Trichloroethene	ND	1.9	0.933	
1,2-Dibromoethane	ND	0.93	0.933		Trichlorofluoromethane	ND	9.3	0.933	
Dibromomethane	ND	0.93	0.933		1,2,3-Trichloropropane	ND	1.9	0.933	
1,2-Dichlorobenzene	ND	0.93	0.933		1,2,4-Trimethylbenzene	ND	1.9	0.933	
1,3-Dichlorobenzene	ND	0.93	0.933		1,3,5-Trimethylbenzene	ND	1.9	0.933	
1,4-Dichlorobenzene	ND	0.93	0.933		Vinyl Acetate	ND	9.3	0.933	
Dichlorodifluoromethane	ND	1.9	0.933		Vinyl Chloride	ND	0.93	0.933	
1,1-Dichloroethane	ND	0.93	0.933		p/m-Xylene	ND	1.9	0.933	
1,2-Dichloroethane	ND	0.93	0.933		o-Xylene	ND	0.93	0.933	
1,1-Dichloroethene	ND	0.93	0.933		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.933	
c-1,2-Dichloroethene	ND	0.93	0.933		Tert-Butyl Alcohol (TBA)	ND	19	0.933	
t-1,2-Dichloroethene	ND	0.93	0.933		Diisopropyl Ether (DIPE)	ND	0.93	0.933	
1,2-Dichloropropane	ND	0.93	0.933		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.933	
1,3-Dichloropropane	ND	0.93	0.933		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.933	
2,2-Dichloropropane	ND	4.7	0.933		Ethanol	ND	470	0.933	
1,1-Dichloropropene	ND	1.9	0.933						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	96	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5@1'	**09-10-1837-3-D**	**10/22/09 09:13**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 16:02**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	66	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19@1'	**09-10-1837-4-D**	**10/22/09 09:27**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 16:34**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	150	47	0.935		c-1,3-Dichloropropene	ND	0.94	0.935	
Benzene	ND	0.94	0.935		t-1,3-Dichloropropene	ND	1.9	0.935	
Bromobenzene	ND	0.94	0.935		Ethylbenzene	ND	0.94	0.935	
Bromochloromethane	ND	1.9	0.935		2-Hexanone	ND	19	0.935	
Bromodichloromethane	ND	0.94	0.935		Isopropylbenzene	ND	0.94	0.935	
Bromoform	ND	4.7	0.935		p-Isopropyltoluene	ND	0.94	0.935	
Bromomethane	ND	19	0.935		Methylene Chloride	ND	9.4	0.935	
2-Butanone	ND	19	0.935		4-Methyl-2-Pentanone	ND	19	0.935	
n-Butylbenzene	ND	0.94	0.935		Naphthalene	ND	9.4	0.935	
sec-Butylbenzene	ND	0.94	0.935		n-Propylbenzene	ND	1.9	0.935	
tert-Butylbenzene	ND	0.94	0.935		Styrene	ND	0.94	0.935	
Carbon Disulfide	ND	9.4	0.935		1,1,1,2-Tetrachloroethane	ND	0.94	0.935	
Carbon Tetrachloride	ND	0.94	0.935		1,1,2,2-Tetrachloroethane	ND	1.9	0.935	
Chlorobenzene	ND	0.94	0.935		Tetrachloroethene	ND	0.94	0.935	
Chloroethane	ND	1.9	0.935		Toluene	3.1	0.94	0.935	
Chloroform	ND	0.94	0.935		1,2,3-Trichlorobenzene	ND	1.9	0.935	
Chloromethane	ND	19	0.935		1,2,4-Trichlorobenzene	ND	1.9	0.935	
2-Chlorotoluene	ND	0.94	0.935		1,1,1-Trichloroethane	ND	0.94	0.935	
4-Chlorotoluene	ND	0.94	0.935		1,1,2-Trichloroethane	ND	0.94	0.935	
Dibromochloromethane	ND	1.9	0.935		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.4	0.935	
1,2-Dibromo-3-Chloropropane	ND	4.7	0.935		Trichloroethene	ND	1.9	0.935	
1,2-Dibromoethane	ND	0.94	0.935		Trichlorofluoromethane	ND	9.4	0.935	
Dibromomethane	ND	0.94	0.935		1,2,3-Trichloropropane	ND	1.9	0.935	
1,2-Dichlorobenzene	ND	0.94	0.935		1,2,4-Trimethylbenzene	ND	1.9	0.935	
1,3-Dichlorobenzene	ND	0.94	0.935		1,3,5-Trimethylbenzene	ND	1.9	0.935	
1,4-Dichlorobenzene	ND	0.94	0.935		Vinyl Acetate	ND	9.4	0.935	
Dichlorodifluoromethane	ND	1.9	0.935		Vinyl Chloride	ND	0.94	0.935	
1,1-Dichloroethane	ND	0.94	0.935		p/m-Xylene	ND	1.9	0.935	
1,2-Dichloroethane	ND	0.94	0.935		o-Xylene	ND	0.94	0.935	
1,1-Dichloroethene	ND	0.94	0.935		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.935	
c-1,2-Dichloroethene	ND	0.94	0.935		Tert-Butyl Alcohol (TBA)	ND	19	0.935	
t-1,2-Dichloroethene	ND	0.94	0.935		Diisopropyl Ether (DIPE)	ND	0.94	0.935	
1,2-Dichloropropane	ND	0.94	0.935		Ethyl-t-Butyl Ether (ETBE)	ND	0.94	0.935	
1,3-Dichloropropane	ND	0.94	0.935		Tert-Amyl-Methyl Ether (TAME)	ND	0.94	0.935	
2,2-Dichloropropane	ND	4.7	0.935		Ethanol	ND	470	0.935	
1,1-Dichloropropene	ND	1.9	0.935						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	101	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6@1'	**09-10-1837-5-D**	**10/22/09 09:38**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 17:06**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	57	49	0.973		c-1,3-Dichloropropene	ND	0.97	0.973	
Benzene	ND	0.97	0.973		t-1,3-Dichloropropene	ND	1.9	0.973	
Bromobenzene	ND	0.97	0.973		Ethylbenzene	ND	0.97	0.973	
Bromochloromethane	ND	1.9	0.973		2-Hexanone	ND	19	0.973	
Bromodichloromethane	ND	0.97	0.973		Isopropylbenzene	ND	0.97	0.973	
Bromoform	ND	4.9	0.973		p-Isopropyltoluene	ND	0.97	0.973	
Bromomethane	ND	19	0.973		Methylene Chloride	ND	9.7	0.973	
2-Butanone	ND	19	0.973		4-Methyl-2-Pentanone	ND	19	0.973	
n-Butylbenzene	ND	0.97	0.973		Naphthalene	ND	9.7	0.973	
sec-Butylbenzene	ND	0.97	0.973		n-Propylbenzene	ND	1.9	0.973	
tert-Butylbenzene	ND	0.97	0.973		Styrene	ND	0.97	0.973	
Carbon Disulfide	ND	9.7	0.973		1,1,1,2-Tetrachloroethane	ND	0.97	0.973	
Carbon Tetrachloride	ND	0.97	0.973		1,1,2,2-Tetrachloroethane	ND	1.9	0.973	
Chlorobenzene	ND	0.97	0.973		Tetrachloroethene	ND	0.97	0.973	
Chloroethane	ND	1.9	0.973		Toluene	ND	0.97	0.973	
Chloroform	ND	0.97	0.973		1,2,3-Trichlorobenzene	ND	1.9	0.973	
Chloromethane	ND	19	0.973		1,2,4-Trichlorobenzene	ND	1.9	0.973	
2-Chlorotoluene	ND	0.97	0.973		1,1,1-Trichloroethane	ND	0.97	0.973	
4-Chlorotoluene	ND	0.97	0.973		1,1,2-Trichloroethane	ND	0.97	0.973	
Dibromochloromethane	ND	1.9	0.973		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.973	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.973		Trichloroethene	ND	1.9	0.973	
1,2-Dibromoethane	ND	0.97	0.973		Trichlorofluoromethane	ND	9.7	0.973	
Dibromomethane	ND	0.97	0.973		1,2,3-Trichloropropane	ND	1.9	0.973	
1,2-Dichlorobenzene	ND	0.97	0.973		1,2,4-Trimethylbenzene	ND	1.9	0.973	
1,3-Dichlorobenzene	ND	0.97	0.973		1,3,5-Trimethylbenzene	ND	1.9	0.973	
1,4-Dichlorobenzene	ND	0.97	0.973		Vinyl Acetate	ND	9.7	0.973	
Dichlorodifluoromethane	ND	1.9	0.973		Vinyl Chloride	ND	0.97	0.973	
1,1-Dichloroethane	ND	0.97	0.973		p/m-Xylene	ND	1.9	0.973	
1,2-Dichloroethane	ND	0.97	0.973		o-Xylene	ND	0.97	0.973	
1,1-Dichloroethene	ND	0.97	0.973		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.973	
c-1,2-Dichloroethene	ND	0.97	0.973		Tert-Butyl Alcohol (TBA)	ND	19	0.973	
t-1,2-Dichloroethene	ND	0.97	0.973		Diisopropyl Ether (DIPE)	ND	0.97	0.973	
1,2-Dichloropropane	ND	0.97	0.973		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.973	
1,3-Dichloropropane	ND	0.97	0.973		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.973	
2,2-Dichloropropane	ND	4.9	0.973		Ethanol	ND	490	0.973	
1,1-Dichloropropene	ND	1.9	0.973						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-64@15'	**09-10-1837-6-D**	**10/22/09 11:42**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 17:36**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.858		c-1,3-Dichloropropene	ND	0.86	0.858	
Benzene	ND	0.86	0.858		t-1,3-Dichloropropene	ND	1.7	0.858	
Bromobenzene	ND	0.86	0.858		Ethylbenzene	ND	0.86	0.858	
Bromochloromethane	ND	1.7	0.858		2-Hexanone	ND	17	0.858	
Bromodichloromethane	ND	0.86	0.858		Isopropylbenzene	ND	0.86	0.858	
Bromoform	ND	4.3	0.858		p-Isopropyltoluene	ND	0.86	0.858	
Bromomethane	ND	17	0.858		Methylene Chloride	ND	8.6	0.858	
2-Butanone	ND	17	0.858		4-Methyl-2-Pentanone	ND	17	0.858	
n-Butylbenzene	ND	0.86	0.858		Naphthalene	ND	8.6	0.858	
sec-Butylbenzene	ND	0.86	0.858		n-Propylbenzene	ND	1.7	0.858	
tert-Butylbenzene	ND	0.86	0.858		Styrene	ND	0.86	0.858	
Carbon Disulfide	ND	8.6	0.858		1,1,1,2-Tetrachloroethane	ND	0.86	0.858	
Carbon Tetrachloride	ND	0.86	0.858		1,1,2,2-Tetrachloroethane	ND	1.7	0.858	
Chlorobenzene	ND	0.86	0.858		Tetrachloroethene	ND	0.86	0.858	
Chloroethane	ND	1.7	0.858		Toluene	ND	0.86	0.858	
Chloroform	ND	0.86	0.858		1,2,3-Trichlorobenzene	ND	1.7	0.858	
Chloromethane	ND	17	0.858		1,2,4-Trichlorobenzene	ND	1.7	0.858	
2-Chlorotoluene	ND	0.86	0.858		1,1,1-Trichloroethane	ND	0.86	0.858	
4-Chlorotoluene	ND	0.86	0.858		1,1,2-Trichloroethane	ND	0.86	0.858	
Dibromochloromethane	ND	1.7	0.858		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.858	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.858		Trichloroethene	ND	1.7	0.858	
1,2-Dibromoethane	ND	0.86	0.858		Trichlorofluoromethane	ND	8.6	0.858	
Dibromomethane	ND	0.86	0.858		1,2,3-Trichloropropane	ND	1.7	0.858	
1,2-Dichlorobenzene	ND	0.86	0.858		1,2,4-Trimethylbenzene	ND	1.7	0.858	
1,3-Dichlorobenzene	ND	0.86	0.858		1,3,5-Trimethylbenzene	ND	1.7	0.858	
1,4-Dichlorobenzene	ND	0.86	0.858		Vinyl Acetate	ND	8.6	0.858	
Dichlorodifluoromethane	ND	1.7	0.858		Vinyl Chloride	ND	0.86	0.858	
1,1-Dichloroethane	ND	0.86	0.858		p/m-Xylene	ND	1.7	0.858	
1,2-Dichloroethane	ND	0.86	0.858		o-Xylene	ND	0.86	0.858	
1,1-Dichloroethene	ND	0.86	0.858		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.858	
c-1,2-Dichloroethene	ND	0.86	0.858		Tert-Butyl Alcohol (TBA)	ND	17	0.858	
t-1,2-Dichloroethene	ND	0.86	0.858		Diisopropyl Ether (DIPE)	ND	0.86	0.858	
1,2-Dichloropropane	ND	0.86	0.858		Ethyl-t-Butyl Ether (ETBE)	ND	0.86	0.858	
1,3-Dichloropropane	ND	0.86	0.858		Tert-Amyl-Methyl Ether (TAME)	ND	0.86	0.858	
2,2-Dichloropropane	ND	4.3	0.858		Ethanol	ND	430	0.858	
1,1-Dichloropropene	ND	1.7	0.858						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@1'	**09-10-1837-7-D**	**10/22/09 11:57**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 18:05**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	96	46	0.923		c-1,3-Dichloropropene	ND	0.92	0.923	
Benzene	ND	0.92	0.923		t-1,3-Dichloropropene	ND	1.8	0.923	
Bromobenzene	ND	0.92	0.923		Ethylbenzene	ND	0.92	0.923	
Bromochloromethane	ND	1.8	0.923		2-Hexanone	ND	18	0.923	
Bromodichloromethane	ND	0.92	0.923		Isopropylbenzene	ND	0.92	0.923	
Bromoform	ND	4.6	0.923		p-Isopropyltoluene	ND	0.92	0.923	
Bromomethane	ND	18	0.923		Methylene Chloride	ND	9.2	0.923	
2-Butanone	ND	18	0.923		4-Methyl-2-Pentanone	ND	18	0.923	
n-Butylbenzene	ND	0.92	0.923		Naphthalene	ND	9.2	0.923	
sec-Butylbenzene	ND	0.92	0.923		n-Propylbenzene	ND	1.8	0.923	
tert-Butylbenzene	ND	0.92	0.923		Styrene	ND	0.92	0.923	
Carbon Disulfide	ND	9.2	0.923		1,1,1,2-Tetrachloroethane	ND	0.92	0.923	
Carbon Tetrachloride	ND	0.92	0.923		1,1,2,2-Tetrachloroethane	ND	1.8	0.923	
Chlorobenzene	ND	0.92	0.923		Tetrachloroethene	ND	0.92	0.923	
Chloroethane	ND	1.8	0.923		Toluene	ND	0.92	0.923	
Chloroform	ND	0.92	0.923		1,2,3-Trichlorobenzene	ND	1.8	0.923	
Chloromethane	ND	18	0.923		1,2,4-Trichlorobenzene	ND	1.8	0.923	
2-Chlorotoluene	ND	0.92	0.923		1,1,1-Trichloroethane	ND	0.92	0.923	
4-Chlorotoluene	ND	0.92	0.923		1,1,2-Trichloroethane	ND	0.92	0.923	
Dibromochloromethane	ND	1.8	0.923		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.2	0.923	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.923		Trichloroethene	ND	1.8	0.923	
1,2-Dibromoethane	ND	0.92	0.923		Trichlorofluoromethane	ND	9.2	0.923	
Dibromomethane	ND	0.92	0.923		1,2,3-Trichloropropane	ND	1.8	0.923	
1,2-Dichlorobenzene	ND	0.92	0.923		1,2,4-Trimethylbenzene	ND	1.8	0.923	
1,3-Dichlorobenzene	ND	0.92	0.923		1,3,5-Trimethylbenzene	ND	1.8	0.923	
1,4-Dichlorobenzene	ND	0.92	0.923		Vinyl Acetate	ND	9.2	0.923	
Dichlorodifluoromethane	ND	1.8	0.923		Vinyl Chloride	ND	0.92	0.923	
1,1-Dichloroethane	ND	0.92	0.923		p/m-Xylene	ND	1.8	0.923	
1,2-Dichloroethane	ND	0.92	0.923		o-Xylene	ND	0.92	0.923	
1,1-Dichloroethene	ND	0.92	0.923		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.923	
c-1,2-Dichloroethene	ND	0.92	0.923		Tert-Butyl Alcohol (TBA)	ND	18	0.923	
t-1,2-Dichloroethene	ND	0.92	0.923		Diisopropyl Ether (DIPE)	ND	0.92	0.923	
1,2-Dichloropropane	ND	0.92	0.923		Ethyl-t-Butyl Ether (ETBE)	ND	0.92	0.923	
1,3-Dichloropropane	ND	0.92	0.923		Tert-Amyl-Methyl Ether (TAME)	ND	0.92	0.923	
2,2-Dichloropropane	ND	4.6	0.923		Ethanol	ND	460	0.923	
1,1-Dichloropropene	ND	1.8	0.923						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-62@15'	**09-10-1837-9-D**	**10/22/09 12:23**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 19:09**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	48	0.969		c-1,3-Dichloropropene	ND	0.97	0.969	
Benzene	ND	0.97	0.969		t-1,3-Dichloropropene	ND	1.9	0.969	
Bromobenzene	ND	0.97	0.969		Ethylbenzene	ND	0.97	0.969	
Bromochloromethane	ND	1.9	0.969		2-Hexanone	ND	19	0.969	
Bromodichloromethane	ND	0.97	0.969		Isopropylbenzene	ND	0.97	0.969	
Bromoform	ND	4.8	0.969		p-Isopropyltoluene	ND	0.97	0.969	
Bromomethane	ND	19	0.969		Methylene Chloride	ND	9.7	0.969	
2-Butanone	ND	19	0.969		4-Methyl-2-Pentanone	ND	19	0.969	
n-Butylbenzene	ND	0.97	0.969		Naphthalene	ND	9.7	0.969	
sec-Butylbenzene	ND	0.97	0.969		n-Propylbenzene	ND	1.9	0.969	
tert-Butylbenzene	ND	0.97	0.969		Styrene	ND	0.97	0.969	
Carbon Disulfide	ND	9.7	0.969		1,1,1,2-Tetrachloroethane	ND	0.97	0.969	
Carbon Tetrachloride	ND	0.97	0.969		1,1,2,2-Tetrachloroethane	ND	1.9	0.969	
Chlorobenzene	ND	0.97	0.969		Tetrachloroethene	ND	0.97	0.969	
Chloroethane	ND	1.9	0.969		Toluene	ND	0.97	0.969	
Chloroform	ND	0.97	0.969		1,2,3-Trichlorobenzene	ND	1.9	0.969	
Chloromethane	ND	19	0.969		1,2,4-Trichlorobenzene	ND	1.9	0.969	
2-Chlorotoluene	ND	0.97	0.969		1,1,1-Trichloroethane	ND	0.97	0.969	
4-Chlorotoluene	ND	0.97	0.969		1,1,2-Trichloroethane	ND	0.97	0.969	
Dibromochloromethane	ND	1.9	0.969		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.969	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.969		Trichloroethene	ND	1.9	0.969	
1,2-Dibromoethane	ND	0.97	0.969		Trichlorofluoromethane	ND	9.7	0.969	
Dibromomethane	ND	0.97	0.969		1,2,3-Trichloropropane	ND	1.9	0.969	
1,2-Dichlorobenzene	ND	0.97	0.969		1,2,4-Trimethylbenzene	ND	1.9	0.969	
1,3-Dichlorobenzene	ND	0.97	0.969		1,3,5-Trimethylbenzene	ND	1.9	0.969	
1,4-Dichlorobenzene	ND	0.97	0.969		Vinyl Acetate	ND	9.7	0.969	
Dichlorodifluoromethane	ND	1.9	0.969		Vinyl Chloride	ND	0.97	0.969	
1,1-Dichloroethane	ND	0.97	0.969		p/m-Xylene	ND	1.9	0.969	
1,2-Dichloroethane	ND	0.97	0.969		o-Xylene	ND	0.97	0.969	
1,1-Dichloroethene	ND	0.97	0.969		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.969	
c-1,2-Dichloroethene	ND	0.97	0.969		Tert-Butyl Alcohol (TBA)	ND	19	0.969	
t-1,2-Dichloroethene	ND	0.97	0.969		Diisopropyl Ether (DIPE)	ND	0.97	0.969	
1,2-Dichloropropane	ND	0.97	0.969		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.969	
1,3-Dichloropropane	ND	0.97	0.969		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.969	
2,2-Dichloropropane	ND	4.8	0.969		Ethanol	ND	480	0.969	
1,1-Dichloropropene	ND	1.9	0.969						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	127	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@1'	**09-10-1837-10-D**	**10/22/09 13:31**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 19:40**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	100	49	0.975		c-1,3-Dichloropropene	ND	0.98	0.975	
Benzene	ND	0.98	0.975		t-1,3-Dichloropropene	ND	2.0	0.975	
Bromobenzene	ND	0.98	0.975		Ethylbenzene	ND	0.98	0.975	
Bromochloromethane	ND	2.0	0.975		2-Hexanone	ND	20	0.975	
Bromodichloromethane	ND	0.98	0.975		Isopropylbenzene	ND	0.98	0.975	
Bromoform	ND	4.9	0.975		p-Isopropyltoluene	ND	0.98	0.975	
Bromomethane	ND	20	0.975		Methylene Chloride	ND	9.8	0.975	
2-Butanone	ND	20	0.975		4-Methyl-2-Pentanone	ND	20	0.975	
n-Butylbenzene	ND	0.98	0.975		Naphthalene	ND	9.8	0.975	
sec-Butylbenzene	ND	0.98	0.975		n-Propylbenzene	ND	2.0	0.975	
tert-Butylbenzene	ND	0.98	0.975		Styrene	ND	0.98	0.975	
Carbon Disulfide	ND	9.8	0.975		1,1,1,2-Tetrachloroethane	ND	0.98	0.975	
Carbon Tetrachloride	ND	0.98	0.975		1,1,2,2-Tetrachloroethane	ND	2.0	0.975	
Chlorobenzene	ND	0.98	0.975		Tetrachloroethene	ND	0.98	0.975	
Chloroethane	ND	2.0	0.975		Toluene	ND	0.98	0.975	
Chloroform	ND	0.98	0.975		1,2,3-Trichlorobenzene	ND	2.0	0.975	
Chloromethane	ND	20	0.975		1,2,4-Trichlorobenzene	ND	2.0	0.975	
2-Chlorotoluene	ND	0.98	0.975		1,1,1-Trichloroethane	ND	0.98	0.975	
4-Chlorotoluene	ND	0.98	0.975		1,1,2-Trichloroethane	ND	0.98	0.975	
Dibromochloromethane	ND	2.0	0.975		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.8	0.975	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.975		Trichloroethene	ND	2.0	0.975	
1,2-Dibromoethane	ND	0.98	0.975		Trichlorofluoromethane	ND	9.8	0.975	
Dibromomethane	ND	0.98	0.975		1,2,3-Trichloropropane	ND	2.0	0.975	
1,2-Dichlorobenzene	ND	0.98	0.975		1,2,4-Trimethylbenzene	ND	2.0	0.975	
1,3-Dichlorobenzene	ND	0.98	0.975		1,3,5-Trimethylbenzene	ND	2.0	0.975	
1,4-Dichlorobenzene	ND	0.98	0.975		Vinyl Acetate	ND	9.8	0.975	
Dichlorodifluoromethane	ND	2.0	0.975		Vinyl Chloride	ND	0.98	0.975	
1,1-Dichloroethane	ND	0.98	0.975		p/m-Xylene	ND	2.0	0.975	
1,2-Dichloroethane	ND	0.98	0.975		o-Xylene	ND	0.98	0.975	
1,1-Dichloroethene	ND	0.98	0.975		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.975	
c-1,2-Dichloroethene	ND	0.98	0.975		Tert-Butyl Alcohol (TBA)	ND	20	0.975	
t-1,2-Dichloroethene	ND	0.98	0.975		Diisopropyl Ether (DIPE)	ND	0.98	0.975	
1,2-Dichloropropane	ND	0.98	0.975		Ethyl-t-Butyl Ether (ETBE)	ND	0.98	0.975	
1,3-Dichloropropane	ND	0.98	0.975		Tert-Amyl-Methyl Ether (TAME)	ND	0.98	0.975	
2,2-Dichloropropane	ND	4.9	0.975		Ethanol	ND	490	0.975	
1,1-Dichloropropene	ND	2.0	0.975						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-63@15'	**09-10-1837-12-D**	**10/22/09 13:48**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 20:41**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	34	0.683		c-1,3-Dichloropropene	ND	0.68	0.683	
Benzene	ND	0.68	0.683		t-1,3-Dichloropropene	ND	1.4	0.683	
Bromobenzene	ND	0.68	0.683		Ethylbenzene	ND	0.68	0.683	
Bromochloromethane	ND	1.4	0.683		2-Hexanone	ND	14	0.683	
Bromodichloromethane	ND	0.68	0.683		Isopropylbenzene	ND	0.68	0.683	
Bromoform	ND	3.4	0.683		p-Isopropyltoluene	ND	0.68	0.683	
Bromomethane	ND	14	0.683		Methylene Chloride	ND	6.8	0.683	
2-Butanone	ND	14	0.683		4-Methyl-2-Pentanone	ND	14	0.683	
n-Butylbenzene	ND	0.68	0.683		Naphthalene	ND	6.8	0.683	
sec-Butylbenzene	ND	0.68	0.683		n-Propylbenzene	ND	1.4	0.683	
tert-Butylbenzene	ND	0.68	0.683		Styrene	ND	0.68	0.683	
Carbon Disulfide	ND	6.8	0.683		1,1,1,2-Tetrachloroethane	ND	0.68	0.683	
Carbon Tetrachloride	ND	0.68	0.683		1,1,2,2-Tetrachloroethane	ND	1.4	0.683	
Chlorobenzene	ND	0.68	0.683		Tetrachloroethene	ND	0.68	0.683	
Chloroethane	ND	1.4	0.683		Toluene	ND	0.68	0.683	
Chloroform	ND	0.68	0.683		1,2,3-Trichlorobenzene	ND	1.4	0.683	
Chloromethane	ND	14	0.683		1,2,4-Trichlorobenzene	ND	1.4	0.683	
2-Chlorotoluene	ND	0.68	0.683		1,1,1-Trichloroethane	ND	0.68	0.683	
4-Chlorotoluene	ND	0.68	0.683		1,1,2-Trichloroethane	ND	0.68	0.683	
Dibromochloromethane	ND	1.4	0.683		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	6.8	0.683	
1,2-Dibromo-3-Chloropropane	ND	3.4	0.683		Trichloroethene	ND	1.4	0.683	
1,2-Dibromoethane	ND	0.68	0.683		Trichlorofluoromethane	ND	6.8	0.683	
Dibromomethane	ND	0.68	0.683		1,2,3-Trichloropropane	ND	1.4	0.683	
1,2-Dichlorobenzene	ND	0.68	0.683		1,2,4-Trimethylbenzene	ND	1.4	0.683	
1,3-Dichlorobenzene	ND	0.68	0.683		1,3,5-Trimethylbenzene	ND	1.4	0.683	
1,4-Dichlorobenzene	ND	0.68	0.683		Vinyl Acetate	ND	6.8	0.683	
Dichlorodifluoromethane	ND	1.4	0.683		Vinyl Chloride	ND	0.68	0.683	
1,1-Dichloroethane	ND	0.68	0.683		p/m-Xylene	ND	1.4	0.683	
1,2-Dichloroethane	ND	0.68	0.683		o-Xylene	ND	0.68	0.683	
1,1-Dichloroethene	ND	0.68	0.683		Methyl-t-Butyl Ether (MTBE)	ND	1.4	0.683	
c-1,2-Dichloroethene	ND	0.68	0.683		Tert-Butyl Alcohol (TBA)	ND	14	0.683	
t-1,2-Dichloroethene	ND	0.68	0.683		Diisopropyl Ether (DIPE)	ND	0.68	0.683	
1,2-Dichloropropane	ND	0.68	0.683		Ethyl-t-Butyl Ether (ETBE)	ND	0.68	0.683	
1,3-Dichloropropane	ND	0.68	0.683		Tert-Amyl-Methyl Ether (TAME)	ND	0.68	0.683	
2,2-Dichloropropane	ND	3.4	0.683		Ethanol	ND	340	0.683	
1,1-Dichloropropene	ND	1.4	0.683						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	124	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 11 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-65@15'	**09-10-1837-13-D**	**10/22/09 14:07**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 21:12**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	43	0.864		c-1,3-Dichloropropene	ND	0.86	0.864	
Benzene	ND	0.86	0.864		t-1,3-Dichloropropene	ND	1.7	0.864	
Bromobenzene	ND	0.86	0.864		Ethylbenzene	ND	0.86	0.864	
Bromochloromethane	ND	1.7	0.864		2-Hexanone	ND	17	0.864	
Bromodichloromethane	ND	0.86	0.864		Isopropylbenzene	ND	0.86	0.864	
Bromoform	ND	4.3	0.864		p-Isopropyltoluene	ND	0.86	0.864	
Bromomethane	ND	17	0.864		Methylene Chloride	ND	8.6	0.864	
2-Butanone	ND	17	0.864		4-Methyl-2-Pentanone	ND	17	0.864	
n-Butylbenzene	ND	0.86	0.864		Naphthalene	ND	8.6	0.864	
sec-Butylbenzene	ND	0.86	0.864		n-Propylbenzene	ND	1.7	0.864	
tert-Butylbenzene	ND	0.86	0.864		Styrene	ND	0.86	0.864	
Carbon Disulfide	ND	8.6	0.864		1,1,1,2-Tetrachloroethane	ND	0.86	0.864	
Carbon Tetrachloride	ND	0.86	0.864		1,1,2,2-Tetrachloroethane	ND	1.7	0.864	
Chlorobenzene	ND	0.86	0.864		Tetrachloroethene	ND	0.86	0.864	
Chloroethane	ND	1.7	0.864		Toluene	ND	0.86	0.864	
Chloroform	ND	0.86	0.864		1,2,3-Trichlorobenzene	ND	1.7	0.864	
Chloromethane	ND	17	0.864		1,2,4-Trichlorobenzene	ND	1.7	0.864	
2-Chlorotoluene	ND	0.86	0.864		1,1,1-Trichloroethane	ND	0.86	0.864	
4-Chlorotoluene	ND	0.86	0.864		1,1,2-Trichloroethane	ND	0.86	0.864	
Dibromochloromethane	ND	1.7	0.864		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.6	0.864	
1,2-Dibromo-3-Chloropropane	ND	4.3	0.864		Trichloroethene	ND	1.7	0.864	
1,2-Dibromoethane	ND	0.86	0.864		Trichlorofluoromethane	ND	8.6	0.864	
Dibromomethane	ND	0.86	0.864		1,2,3-Trichloropropane	ND	1.7	0.864	
1,2-Dichlorobenzene	ND	0.86	0.864		1,2,4-Trimethylbenzene	ND	1.7	0.864	
1,3-Dichlorobenzene	ND	0.86	0.864		1,3,5-Trimethylbenzene	ND	1.7	0.864	
1,4-Dichlorobenzene	ND	0.86	0.864		Vinyl Acetate	ND	8.6	0.864	
Dichlorodifluoromethane	ND	1.7	0.864		Vinyl Chloride	ND	0.86	0.864	
1,1-Dichloroethane	ND	0.86	0.864		p/m-Xylene	ND	1.7	0.864	
1,2-Dichloroethane	ND	0.86	0.864		o-Xylene	ND	0.86	0.864	
1,1-Dichloroethene	ND	0.86	0.864		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.864	
c-1,2-Dichloroethene	ND	0.86	0.864		Tert-Butyl Alcohol (TBA)	ND	17	0.864	
t-1,2-Dichloroethene	ND	0.86	0.864		Diisopropyl Ether (DIPE)	ND	0.86	0.864	
1,2-Dichloropropane	ND	0.86	0.864		Ethyl-t-Butyl Ether (ETBE)	ND	0.86	0.864	
1,3-Dichloropropane	ND	0.86	0.864		Tert-Amyl-Methyl Ether (TAME)	ND	0.86	0.864	
2,2-Dichloropropane	ND	4.3	0.864		Ethanol	ND	430	0.864	
1,1-Dichloropropene	ND	1.7	0.864						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	123	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 12 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,426**	**N/A**	**Solid**	**GC/MS JJ**	**10/27/09**	**10/27/09 13:29**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60dup@1'	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09**	**091027S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	32	31	50-115	1	0-20	3
Arsenic	111	104	75-125	6	0-20	
Beryllium	109	106	75-125	3	0-20	
Cadmium	105	102	75-125	3	0-20	
Chromium	105	105	75-125	0	0-20	
Copper	110	109	75-125	1	0-20	
Lead	107	106	75-125	1	0-20	
Nickel	114	115	75-125	0	0-20	
Selenium	100	96	75-125	3	0-20	
Silver	116	113	75-125	2	0-20	
Thallium	106	102	75-125	3	0-20	
Zinc	112	109	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3050B
Method:	EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
SB-60dup@1'	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09**	**091027S01**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	92	93	75-125	1	0-20	
Arsenic	105	104	75-125	1	0-20	
Beryllium	103	102	75-125	1	0-20	
Cadmium	99	99	75-125	0	0-20	
Chromium	98	97	75-125	0	0-20	
Copper	103	102	75-125	0	0-20	
Lead	101	102	75-125	1	0-20	
Nickel	102	101	75-125	0	0-20	
Selenium	98	97	75-125	1	0-20	
Silver	110	111	75-125	0	0-20	
Thallium	101	102	75-125	1	0-20	
Zinc	97	98	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60dup@1'	**Solid**	**GC 47**	**10/27/09**	**10/28/09**	**091027S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	112	109	64-130	3	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1721-2	**Solid**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01A**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	105	107	22-148	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60@1'	**Solid**	**Mercury**	**10/27/09**	**10/27/09**	**091027S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	114	115	71-137	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60@1'	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09**	**091026S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	89	86	57-123	4	0-16	
2-Chlorophenol	91	87	57-111	5	0-17	
1,4-Dichlorobenzene	95	90	49-127	6	0-20	
N-Nitroso-di-n-propylamine	101	97	54-144	4	0-17	
1,2,4-Trichlorobenzene	96	92	42-132	4	0-20	
Naphthalene	86	83	50-150	3	0-20	
4-Chloro-3-Methylphenol	94	92	50-128	2	0-17	
Dimethyl Phthalate	83	81	50-150	2	0-20	
Acenaphthylene	87	84	50-150	4	0-20	
Acenaphthene	95	92	49-133	3	0-18	
4-Nitrophenol	86	87	30-144	1	0-21	
2,4-Dinitrotoluene	91	89	50-128	2	0-18	
Fluorene	94	91	50-150	3	0-20	
Pentachlorophenol	77	76	29-113	1	0-22	
Pyrene	108	105	47-149	2	0-20	
Butyl Benzyl Phthalate	96	95	50-150	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2291-1	**Solid**	**GC/MS AAA**	**10/29/09**	**10/29/09**	**091029S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	25	26	21-133	3	0-25	
2-Methylnaphthalene	0	23	21-140	200	0-25	3,4
1-Methylnaphthalene	0	0	40-160	0	0-25	3
Acenaphthylene	76	335	33-145	126	0-25	4,3
Acenaphthene	81	83	40-106	2	0-25	
Fluorene	83	114	59-121	32	0-25	4
Phenanthrene	430	146	54-120	99	0-25	3,4
Anthracene	467	852	27-133	58	0-25	3,4
Fluoranthene	649	1155	26-137	56	0-25	3,4
Pyrene	0	0	6-156	0	0-25	3
Benzo (a) Anthracene	77	83	33-143	7	0-25	
Chrysene	74	81	17-168	9	0-25	
Benzo (k) Fluoranthene	80	92	24-159	14	0-25	
Benzo (b) Fluoranthene	71	55	24-159	25	0-25	
Benzo (a) Pyrene	101	89	17-163	13	0-25	
Indeno (1,2,3-c,d) Pyrene	65	58	0-171	11	0-25	
Dibenz (a,h) Anthracene	0	0	0-227	0	0-25	
Benzo (g,h,i) Perylene	70	68	0-219	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60dup@1'	**Solid**	**GC 51**	**10/24/09**	**10/27/09**	**091024S11**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	101	100	50-135	1	0-25	
Gamma-BHC	102	101	50-135	1	0-25	
Beta-BHC	110	106	50-135	3	0-25	
Heptachlor	103	103	50-135	0	0-25	
Delta-BHC	106	105	50-135	1	0-25	
Aldrin	101	102	50-135	2	0-25	
Heptachlor Epoxide	98	91	50-135	7	0-25	
Endosulfan I	107	102	50-135	5	0-25	
Dieldrin	104	101	50-135	3	0-25	
4,4'-DDE	132	127	50-135	3	0-25	
Endrin	160	140	50-135	13	0-25	3
Endrin Aldehyde	97	92	50-135	5	0-25	
4,4'-DDD	115	112	50-135	3	0-25	
Endosulfan II	100	98	50-135	2	0-25	
4,4'-DDT	131	122	50-135	6	0-25	
Endosulfan Sulfate	105	102	50-135	3	0-25	
Methoxychlor	111	109	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60dup@1'	**Solid**	**GC 31**	**10/24/09**	**10/28/09**	**091024S12**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	88	84	50-135	4	0-20	
Aroclor-1260	94	94	50-135	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-60dup@1'	**Solid**	**GC 35**	**10/24/09**	**10/28/09**	**091024S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	104	104	30-130	0	0-30	
Bolstar	93	92	30-130	1	0-30	
Chlorpyrifos	97	96	30-130	2	0-30	
Coumaphos	109	109	30-130	0	0-30	
Diazinon	102	102	30-130	0	0-30	
Disulfoton	108	107	30-130	1	0-30	
Ethoprop	102	99	30-130	3	0-30	
Fensulfothion	116	115	30-130	1	0-30	
Fenthion	102	101	30-130	1	0-30	
Merphos	82	87	30-130	6	0-30	
Methyl Parathion	99	97	30-130	2	0-30	
Phorate	117	114	30-130	2	0-30	
Ronnel	96	94	30-130	2	0-30	
Stirophos	114	115	30-130	1	0-30	
Tokuthion	87	88	30-130	1	0-30	
Trichloronate	107	105	30-130	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1837
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,868	**Solid**	**ICP 5300**	**10/27/09**	**10/28/09**	**091027L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	102	103	80-120	73-127	0	0-20	
Arsenic	110	106	80-120	73-127	3	0-20	
Beryllium	102	104	80-120	73-127	2	0-20	
Cadmium	108	108	80-120	73-127	0	0-20	
Chromium	103	105	80-120	73-127	1	0-20	
Copper	104	105	80-120	73-127	2	0-20	
Lead	109	109	80-120	73-127	0	0-20	
Nickel	109	110	80-120	73-127	1	0-20	
Selenium	100	101	80-120	73-127	1	0-20	
Silver	115	117	80-120	73-127	2	0-20	
Thallium	108	110	80-120	73-127	2	0-20	
Zinc	116	114	80-120	73-127	2	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-886	**Solid**	**GC 47**	**10/27/09**	**10/28/09**	**091027B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	123	128	75-123	4	0-12	ME,X

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1837
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,276	**Solid**	**FLAA2**	**10/29/09**	**NONE**	**091029L01A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	26.5	106	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1837
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,622	**Solid**	**Mercury**	**10/27/09**	**10/27/09**	**091027L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	105	105	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-975	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09**	**091026L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	86	87	59-125	48-136	0	0-15	
2-Chlorophenol	87	87	60-114	51-123	0	0-15	
1,4-Dichlorobenzene	90	90	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	91	91	64-136	52-148	0	0-15	
1,2,4-Trichlorobenzene	93	92	58-118	48-128	1	0-18	
Naphthalene	82	82	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	92	91	61-121	51-131	1	0-14	
Dimethyl Phthalate	83	82	0-112	0-131	0	0-20	
Acenaphthylene	79	79	33-145	14-164	0	0-20	
Acenaphthene	85	85	59-125	48-136	0	0-15	
4-Nitrophenol	87	90	38-152	19-171	3	0-31	
2,4-Dinitrotoluene	88	88	51-141	36-156	1	0-16	
Fluorene	88	89	59-121	49-131	0	0-20	
Pentachlorophenol	73	74	38-116	25-129	1	0-20	
Pyrene	96	94	51-141	36-156	3	0-14	
Butyl Benzyl Phthalate	93	91	0-152	0-177	3	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-388	**Solid**	**GC/MS AAA**	**10/29/09**	**10/29/09**	**091029L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	87	87	21-133	2-152	0	0-25	
2-Methylnaphthalene	87	87	21-140	1-160	0	0-25	
1-Methylnaphthalene	85	85	40-160	20-180	0	0-25	
Acenaphthylene	77	77	33-145	14-164	1	0-25	
Acenaphthene	87	88	48-108	38-118	1	0-11	
Fluorene	88	88	59-121	49-131	0	0-25	
Phenanthrene	84	84	54-120	43-131	0	0-25	
Anthracene	79	79	27-133	9-151	0	0-25	
Fluoranthene	74	73	26-137	8-156	1	0-25	
Pyrene	75	74	28-106	15-119	1	0-16	
Benzo (a) Anthracene	80	79	33-143	15-161	1	0-25	
Chrysene	76	76	17-168	0-193	0	0-25	
Benzo (k) Fluoranthene	82	83	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	79	80	24-159	2-182	1	0-25	
Benzo (a) Pyrene	77	77	17-163	0-187	0	0-25	
Indeno (1,2,3-c,d) Pyrene	85	82	0-171	0-200	3	0-25	
Dibenz (a,h) Anthracene	79	80	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	81	80	0-227	0-265	1	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-756	**Solid**	**GC 51**	**10/24/09**	**10/29/09**	**091024L11**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	110	109	50-135	36-149	1	0-25	
Gamma-BHC	110	109	50-135	36-149	1	0-25	
Beta-BHC	112	110	50-135	36-149	1	0-25	
Heptachlor	116	117	50-135	36-149	1	0-25	
Delta-BHC	109	109	50-135	36-149	0	0-25	
Aldrin	117	119	50-135	36-149	2	0-25	
Heptachlor Epoxide	111	112	50-135	36-149	0	0-25	
Endosulfan I	113	113	50-135	36-149	1	0-25	
Dieldrin	90	90	50-135	36-149	0	0-25	
4,4'-DDE	126	129	50-135	36-149	3	0-25	
Endrin	120	121	50-135	36-149	1	0-25	
Endrin Aldehyde	109	108	50-135	36-149	0	0-25	
4,4'-DDD	118	119	50-135	36-149	1	0-25	
Endosulfan II	109	99	50-135	36-149	9	0-25	
4,4'-DDT	124	103	50-135	36-149	19	0-25	
Endosulfan Sulfate	107	108	50-135	36-149	0	0-25	
Methoxychlor	110	111	50-135	36-149	1	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1837
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-803	**Solid**	**GC 31**	**10/24/09**	**10/28/09**	**091024L12**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	85	102	50-135	19	0-20	
Aroclor-1260	104	103	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1837
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-14	**Solid**	**GC 35**	**10/24/09**	**10/28/09**	**091024L14**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	101	127	30-130	13-147	23	0-30	
Bolstar	91	101	30-130	13-147	11	0-30	
Chlorpyrifos	96	114	30-130	13-147	17	0-30	
Coumaphos	105	129	30-130	13-147	20	0-30	
Diazinon	103	120	30-130	13-147	16	0-30	
Disulfoton	106	124	30-130	13-147	16	0-30	
Ethoprop	99	111	30-130	13-147	12	0-30	
Fensulfothion	113	128	30-130	13-147	13	0-30	
Fenthion	100	122	30-130	13-147	19	0-30	
Merphos	82	102	30-130	13-147	21	0-30	
Methyl Parathion	96	115	30-130	13-147	17	0-30	
Phorate	112	126	30-130	13-147	11	0-30	
Ronnel	92	112	30-130	13-147	19	0-30	
Stirophos	114	136	30-130	13-147	18	0-30	ME
Tokuthion	86	105	30-130	13-147	20	0-30	
Trichloronate	106	128	30-130	13-147	19	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1837
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,426	**Solid**	**GC/MS JJ**	**10/27/09**	**10/27/09**	**091027L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	97	92	85-115	80-120	5	0-11	
Carbon Tetrachloride	95	91	68-134	57-145	5	0-14	
Chlorobenzene	96	92	83-119	77-125	4	0-9	
1,2-Dibromoethane	101	98	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	89	86	57-135	44-148	3	0-10	
1,1-Dichloroethene	95	91	72-120	64-128	5	0-10	
Ethylbenzene	100	96	80-120	73-127	4	0-20	
Toluene	99	95	67-127	57-137	4	0-10	
Trichloroethene	100	95	88-112	84-116	5	0-9	
Vinyl Chloride	83	80	57-129	45-141	4	0-16	
Methyl-t-Butyl Ether (MTBE)	85	81	76-124	68-132	4	0-12	
Tert-Butyl Alcohol (TBA)	97	96	31-145	12-164	1	0-23	
Diisopropyl Ether (DIPE)	100	95	74-128	65-137	5	0-10	
Ethyl-t-Butyl Ether (ETBE)	85	84	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	83	81	81-123	74-130	2	0-10	
Ethanol	98	92	44-152	26-170	6	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1837

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name R0007746.0002.00006

Project Location PG&E Radbrook, Oakley

Laboratory CAL science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK AV - Arcadis/LFR

09-10-1837

(1891)

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	Low level VOCs (USEPA 8260B/8235)	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorous Pesticides (USEPA 8141/8014)	PD Metals (USEPA 6010B/7470/7471)	Dioxins + Furans (USEPA 8290)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Remarks	Total
	SB-60@1'	S	0857	1	X	X	X		X	X	X	X	X			6
(MS)	SB-60dup@1'		0904	2	X	X	X		X	X	X	X	X			6
	SB-5@1'		0913	3	X	X	X		X	X	X	X	X	X		6
	SB-19@1'		0927	4	X	X	X		X	X	X	X	X	X		6
	SB-6@1'		0938	5	X	X	X		X	X	X	X	X	X		6
	SB-64@15'		1142	6	X		X	X			X		X			5
	SB-62@1'		1157	7	X	X	X		X	X	X	X	X			6
	SB-62@5'		1210	8	Hold	Hold	Hold	H	Hold	Hold	Hold	Hold	Hold	Hold		6
	SB-62@15'		1223	9	X		X	X			X		X			5
	SB-63@1'		1331	10	X	X	X		X	X	X	X	X			6
	SB-63@5'		1340	11	Hold	→							→	Hold		6
	SB-63@15'		1348	12	X		X	X			X		X			5
	SB-65@15'		1407	13	X		X	X			X		X			5
	~~SB-66@15'~~															

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 74

Relinquished by: [signature]	Organization: Arcadis/LFR	Date 10/22/09	Time 1422	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1422	Yes No N/A	
Relinquished by: [signature] TO GSC	Organization: CEL	Date 10/22/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/23/09	Time 1000	Yes No N/A	

Special Instructions/Remarks:

5128847 47

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1837

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Arcadis

DATE: 10/23/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** DL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ #11 ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® 3 ☑2 oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** DL

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** WSC

Preservative: h: HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** DL

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 12, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1837**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/23/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

November 10, 2009

FAL Project ID: 5801

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5801**. This corresponds to your project number **09-10-1837**. Eight soil samples were received on 10/23/2009 in good condition. Per your chain of custody instructions, sample 5801-007-SA (Calscience Sample ID: SB-62 @ 5ft) was placed on hold. In addition, you contacted us by e-mail on 10/26/09 and requested we change the ID on sample 5801-002-SA from "MS SB-60" to "SB-60 dup @ 1ft". The seven samples that were not on hold were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5801**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, your e-mail dated 10/26/09, our sample login form and a sample photo. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. Also included are the Electronic Data Deliverables (EDDs), in Excel format, you requested

If you have any questions regarding project **5801**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Vice President

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Tel (916) 934-0900 • Fax (916) 934-0999
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ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5801**

Received on: **10/23/2009** Project Due: **11/16/2009** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5801-001-SA	0	09-10-1837	SB-60 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	08:57 am	11/21/2009
5801-002-SA	0	09-10-1837	SB-60 dup@ 1 ft	EPA 8290 D/F	Soil	10/22/2009	09:04 am	11/21/2009
5801-003-SA	0	09-10-1837	SB-5 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	09:13 am	11/21/2009
5801-004-SA	0	09-10-1837	SB-19 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	09:27 am	11/21/2009
5801-005-SA	0	09-10-1837	SB-6 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	09:38 am	11/21/2009
5801-006-SA	0	09-10-1837	SB-62 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	11:57 am	11/21/2009
5801-007-SA	0	09-10-1837	SB-62 @ 5 ft	EPA 8290 D/F	Soil	10/22/2009	12:10 pm	11/21/2009
5801-008-SA	0	09-10-1837	SB-63 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	01:31 pm	11/21/2009

FAL Sample ID	Notes
5801-002-SA	Sample ID provided by client via email 10/26/09.
5801-003-SA	'Using sample ID from COC for our tracking purposes. '
5801-004-SA	Using sample ID from COC for our tracking purposes.
5801-005-SA	Using sample ID from COC for our tracking purposes.
5801-006-SA	'Using sample ID from COC for our tracking purposes. '
5801-007-SA	'HOLD. Using sample ID from COC for our tracking purposes. '
5801-008-SA	'Using sample ID from COC for our tracking purposes. '

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0721		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.131		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.120		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.164		-	0.0680	Total TCDD	ND	0.0721	
1,2,3,7,8,9-HxCDD	ND	0.155		-	0.0666	Total PeCDD	ND	0.131	
1,2,3,4,6,7,8-HpCDD	ND	0.326		-	0.0927	Total HxCDD	ND	0.164	
OCDD	ND	0.784		-	0.272	Total HpCDD	ND	0.326	
2,3,7,8-TCDF	ND	0.0520		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0858		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.111		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0807		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0881		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0792		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.123		-	0.0493	Total TCDF	ND	0.0520	
1,2,3,4,6,7,8-HpCDF	ND	0.123		-	0.0404	Total PeCDF	ND	0.111	
1,2,3,4,7,8,9-HpCDF	ND	0.136		-	0.0469	Total HxCDF	ND	0.123	
OCDF	ND	0.396		-	0.177	Total HpCDF	ND	0.136	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	88.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	72.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	73.8	40.0 - 135	
13C-OCDD	65.4	40.0 - 135	
13C-2,3,7,8-TCDF	96.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	83.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	82.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	72.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	65.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.1	40.0 - 135	
13C-OCDF	71.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	96.5	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 11-09-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	8.84	7.00 - 13.0	
1,2,3,7,8-PeCDD	47.4	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	44.3	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	43.5	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	43.8	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	41.8	35.0 - 65.0	
OCDD	83.4	70.0 - 130	
2,3,7,8-TCDF	8.15	7.00 - 13.0	
1,2,3,7,8-PeCDF	43.3	35.0 - 65.0	
2,3,4,7,8-PeCDF	42.9	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	42.7	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	42.2	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	42.0	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	41.5	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	42.4	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	43.6	35.0 - 65.0	
OCDF	82.4	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	95.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	73.0	40.0 - 135	
13C-OCDD	64.3	40.0 - 135	
13C-2,3,7,8-TCDF	96.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	88.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	87.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	71.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	71.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	66.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	75.4	40.0 - 135	
13C-OCDF	68.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.7	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-001-SA
Client ID: SB-60 @ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.19 g
% Solids: 85.73

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.0186

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0412		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.0994		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.167		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.221		-	0.0680	Total TCDD	0.222	-	J
1,2,3,7,8,9-HxCDD	ND	0.213		-	0.0666	Total PeCDD	ND	0.0994	
1,2,3,4,6,7,8-HpCDD	1.34	-	J	0.0134	0.0927	Total HxCDD	ND	0.221	
OCDD	8.27	-	J	0.00248	0.272	Total HpCDD	2.66	-	J
2,3,7,8-TCDF	ND	0.0714		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0907		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.116		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0827		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0897		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0790		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.121		-	0.0493	Total TCDF	0.220	-	J
1,2,3,4,6,7,8-HpCDF	0.267	-	J	0.00267	0.0404	Total PeCDF	0.528	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0711		-	0.0469	Total HxCDF	0.547	-	J
OCDF	ND	0.438		-	0.177	Total HpCDF	0.592	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	91.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	70.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	69.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.9	40.0 - 135	
13C-OCDD	54.2	40.0 - 135	
13C-2,3,7,8-TCDF	92.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	84.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	83.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	67.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	67.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	65.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	73.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	61.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	73.5	40.0 - 135	
13C-OCDF	60.7	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	92.5	50.0 - 150

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-002-SA
Client ID: SB-60 dup@ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.43 g
% Solids: 84.51

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.00854

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.118		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.122		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.115		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.164		-	0.0680	Total TCDD	ND	0.118	
1,2,3,7,8,9-HxCDD	ND	0.152		-	0.0666	Total PeCDD	ND	0.122	
1,2,3,4,6,7,8-HpCDD	0.578	-	J	0.00578	0.0927	Total HxCDD	ND	0.164	
OCDD	3.57	-	J	0.00107	0.272	Total HpCDD	1.25	-	J
2,3,7,8-TCDF	ND	0.0560		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0797		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.104		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0695		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0757		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0667		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.102		-	0.0493	Total TCDF	0.186	-	J
1,2,3,4,6,7,8-HpCDF	0.169	-	J	0.00169	0.0404	Total PeCDF	0.354	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0664		-	0.0469	Total HxCDF	0.372	-	J
OCDF	ND	0.245		-	0.177	Total HpCDF	0.338	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.4	40.0 - 135	
13C-OCDD	64.9	40.0 - 135	
13C-2,3,7,8-TCDF	96.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	97.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	95.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	71.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	70.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	78.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	67.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	79.3	40.0 - 135	
13C-OCDF	68.4	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.0	50.0 - 150

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-003-SA
Client ID: SB-5 @ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.35 g
% Solids: 93.16

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.322

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0449		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.103		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0831		-	0.0496				
1,2,3,6,7,8-HxCDD	0.491	-	J	0.0491	0.0680	Total TCDD	0.676	-	J
1,2,3,7,8,9-HxCDD	0.416	-	J	0.0416	0.0666	Total PeCDD	0.518	-	J
1,2,3,4,6,7,8-HpCDD	5.36	-		0.0536	0.0927	Total HxCDD	2.17	-	J
OCDD	37.6	-		0.0113	0.272	Total HpCDD	9.65	-	
2,3,7,8-TCDF	0.167	-	J	0.0167	0.0252				
1,2,3,7,8-PeCDF	ND	0.100		-	0.0365				
2,3,4,7,8-PeCDF	0.224	-	J	0.0672	0.0486				
1,2,3,4,7,8-HxCDF	0.165	-	J	0.0165	0.0267				
1,2,3,6,7,8-HxCDF	0.157	-	J	0.0157	0.0289				
2,3,4,6,7,8-HxCDF	0.202	-	J	0.0202	0.0298				
1,2,3,7,8,9-HxCDF	0.203	-	J	0.0203	0.0493	Total TCDF	2.20	-	
1,2,3,4,6,7,8-HpCDF	0.896	-	J	0.00896	0.0404	Total PeCDF	3.84	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0988		-	0.0469	Total HxCDF	3.03	-	J
OCDF	1.53	-	J	0.000459	0.177	Total HpCDF	2.14	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	97.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	71.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	69.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	69.1	40.0 - 135	
13C-OCDD	59.7	40.0 - 135	
13C-2,3,7,8-TCDF	93.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	91.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	68.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	67.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	66.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	71.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	74.1	40.0 - 135	
13C-OCDF	64.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-004-SA
Client ID: SB-19 @ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.15 g
% Solids: 91.08

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.341

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0545		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.124		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0897		-	0.0496				
1,2,3,6,7,8-HxCDD	0.422	-	J	0.0422	0.0680	Total TCDD	0.629	-	J
1,2,3,7,8,9-HxCDD	0.420	-	J	0.0420	0.0666	Total PeCDD	0.589	-	J
1,2,3,4,6,7,8-HpCDD	5.72	-		0.0572	0.0927	Total HxCDD	2.95	-	J
OCDD	47.6	-		0.0143	0.272	Total HpCDD	14.1	-	
2,3,7,8-TCDF	0.198	-	J	0.0198	0.0252				
1,2,3,7,8-PeCDF	ND	0.0844		-	0.0365				
2,3,4,7,8-PeCDF	0.301	-	J	0.0903	0.0486				
1,2,3,4,7,8-HxCDF	0.164	-	J	0.0164	0.0267				
1,2,3,6,7,8-HxCDF	0.184	-	J	0.0184	0.0289				
2,3,4,6,7,8-HxCDF	0.255	-	J	0.0255	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.118		-	0.0493	Total TCDF	2.70	-	
1,2,3,4,6,7,8-HpCDF	1.31	-	J	0.0131	0.0404	Total PeCDF	6.03	-	
1,2,3,4,7,8,9-HpCDF	ND	0.115		-	0.0469	Total HxCDF	3.92	-	J
OCDF	4.40	-	J	0.00132	0.177	Total HpCDF	3.61	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	97.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	68.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	69.3	40.0 - 135	
13C-OCDD	59.3	40.0 - 135	
13C-2,3,7,8-TCDF	89.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	90.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	89.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	66.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	65.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	65.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	71.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	62.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	73.6	40.0 - 135	
13C-OCDF	63.6	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	93.0	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-005-SA
Client ID: SB-6 @ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.25 g
% Solids: 91.90

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 1.05

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0900		-	0.0252				
1,2,3,7,8-PeCDD	0.294	-	J	0.294	0.0457				
1,2,3,4,7,8-HxCDD	0.402	-	J	0.0402	0.0496				
1,2,3,6,7,8-HxCDD	1.70	-	J	0.170	0.0680	Total TCDD	ND	0.0900	
1,2,3,7,8,9-HxCDD	0.972	-	J	0.0972	0.0666	Total PeCDD	0.294	-	J
1,2,3,4,6,7,8-HpCDD	29.4	-		0.294	0.0927	Total HxCDD	8.05	-	
OCDD	195	-		0.0585	0.272	Total HpCDD	52.5	-	
2,3,7,8-TCDF	ND	0.0392		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0721		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.0962		-	0.0486				
1,2,3,4,7,8-HxCDF	0.234	-	J	0.0234	0.0267				
1,2,3,6,7,8-HxCDF	0.235	-	J	0.0235	0.0289				
2,3,4,6,7,8-HxCDF	0.243	-	J	0.0243	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.0926		-	0.0493	Total TCDF	ND	0.0392	
1,2,3,4,6,7,8-HpCDF	2.14	-	J	0.0214	0.0404	Total PeCDF	0.743	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.165		-	0.0469	Total HxCDF	5.22	-	
OCDF	1.34	-	J	0.000402	0.177	Total HpCDF	5.47	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	109	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	76.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	75.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	79.4	40.0 - 135	
13C-OCDD	70.6	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	104	40.0 - 135	
13C-2,3,4,7,8-PeCDF	101	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	73.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	72.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	72.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	83.4	40.0 - 135	
13C-OCDF	74.7	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.8	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-006-SA
Client ID: SB-62 @ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.22 g
% Solids: 85.92

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.121

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0367		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.123		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0723		-	0.0496				
1,2,3,6,7,8-HxCDD	0.356	-	J	0.0356	0.0680	Total TCDD	0.209	-	J
1,2,3,7,8,9-HxCDD	0.448	-	J	0.0448	0.0666	Total PeCDD	ND	0.123	
1,2,3,4,6,7,8-HpCDD	1.03	-	J	0.0103	0.0927	Total HxCDD	0.803	-	J
OCDD	6.98	-	J	0.00209	0.272	Total HpCDD	2.12	-	J
2,3,7,8-TCDF	ND	0.0737		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.0792		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.103		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0738		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0760		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0682		-	0.0298				
1,2,3,7,8,9-HxCDF	0.249	-	J	0.0249	0.0493	Total TCDF	0.470	-	J
1,2,3,4,6,7,8-HpCDF	0.293	-	J	0.00293	0.0404	Total PeCDF	0.303	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0536		-	0.0469	Total HxCDF	0.693	-	J
OCDF	ND	0.463		-	0.177	Total HpCDF	0.618	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	73.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.5	40.0 - 135	
13C-OCDD	63.6	40.0 - 135	
13C-2,3,7,8-TCDF	98.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	96.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	96.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	70.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	69.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	70.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	67.0	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.8	40.0 - 135	
13C-OCDF	70.8	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.7	50.0 - 150

Analyst: K
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5801-008-SA
Client ID: SB-63 @ 1 ft
Matrix: Soil
Batch No: X1877

Date Extracted: 11-06-2009
Date Received: 10-23-2009
Amount: 5.40 g
% Solids: 90.21

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-09-2009
2005 WHO TEQ: 0.156

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0702		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.166		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.0655		-	0.0496				
1,2,3,6,7,8-HxCDD	0.436	-	J	0.0436	0.0680	Total TCDD	0.248	-	J
1,2,3,7,8,9-HxCDD	0.566	-	J	0.0566	0.0666	Total PeCDD	ND	0.166	
1,2,3,4,6,7,8-HpCDD	0.726	-	J	0.00726	0.0927	Total HxCDD	1.00	-	J
OCDD	3.98	-	J	0.00119	0.272	Total HpCDD	1.50	-	J
2,3,7,8-TCDF	0.125	-	J	0.0125	0.0252				
1,2,3,7,8-PeCDF	ND	0.0916		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.123		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0770		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0811		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0705		-	0.0298				
1,2,3,7,8,9-HxCDF	0.324	-	J	0.0324	0.0493	Total TCDF	1.74	-	
1,2,3,4,6,7,8-HpCDF	0.273	-	J	0.00273	0.0404	Total PeCDF	0.984	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.0444		-	0.0469	Total HxCDF	0.811	-	J
OCDF	ND	0.332		-	0.177	Total HpCDF	0.460	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	94.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	104	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	72.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	72.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	72.2	40.0 - 135	
13C-OCDD	62.8	40.0 - 135	
13C-2,3,7,8-TCDF	99.3	40.0 - 135	
13C-1,2,3,7,8-PeCDF	100	40.0 - 135	
13C-2,3,4,7,8-PeCDF	96.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	70.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	69.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	76.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	66.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	77.3	40.0 - 135	
13C-OCDF	67.7	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	98.7	50.0 - 150

Analyst: [signature]
Date: 11/10/09

Reviewed By: [signature]
Date: 11/10/09

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5801
Temperature: 10 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1837
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-60 @ 1 ft	10-22-09	0857	S			X									D/F
2	* MS SB-60		0904													
3	SB-5 @ 1 ft		0913													
4	-19		0927													
5	-6		0938													
6	-62		1157													
7	5 ft		1210				HOLD									
8	-63 1 ft		1331				X									
9																
10																
11	* Danielle to Kathy: Change ID to SB-60 dup @ 1 ft.															KZ 10/26/09
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP	10-22-09	1730	Kathy Sop K Kipp	10-23-09	11:35

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Kathy Zipp

From: Danielle Gonsman [dgonsman@calscience.com]
Sent: Monday, October 26, 2009 12:12 PM
To: Kathy Zipp
Subject: RE: 5801 Sample Receipt 09-10-1837 Due: 11-16-09

Hi Kathy,

Can you please change the ID for sample "MS SB-60" to "SB-60 dup@ 1 ft"?

Thank you,

Danielle Gonsman
Project Manager
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x232

From: Kathy Zipp [mailto:kathyz@frontieranalytical.com]
Sent: Friday, October 23, 2009 2:13 PM
To: Danielle Gonsman
Cc: Brad Silverbush; samplecontrol
Subject: 5801 Sample Receipt 09-10-1837 Due: 11-16-09

Dear Ms. Gonsman,

This email confirms the receipt of your eight soil samples. The samples were received on October 23, 2009 in good condition. Attached is a PDF of your chain of custody, our sample login form and project-sample tracking form. The samples have been assigned a Frontier Analytical Laboratory (FAL) project number of 5801 (Calscience ID: 09-10-1837). In order to expedite inquiries, please reference our project number. The samples will be analyzed following EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans.

A fifteen (15) business day turnaround time will be provided for this work.

If you have any questions regarding this project, please feel free to call us at (916) 934-0900.

Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

FRONTIER ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5801**

Client:	Calscience
Client Project ID:	09-10-1837
Date Received:	10/23/2009
Time Received:	11:35 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	8
Duplicates:	0
Storage Location:	R1

Method of Delivery:	Other
Tracking Number:	51288413
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	1
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/21/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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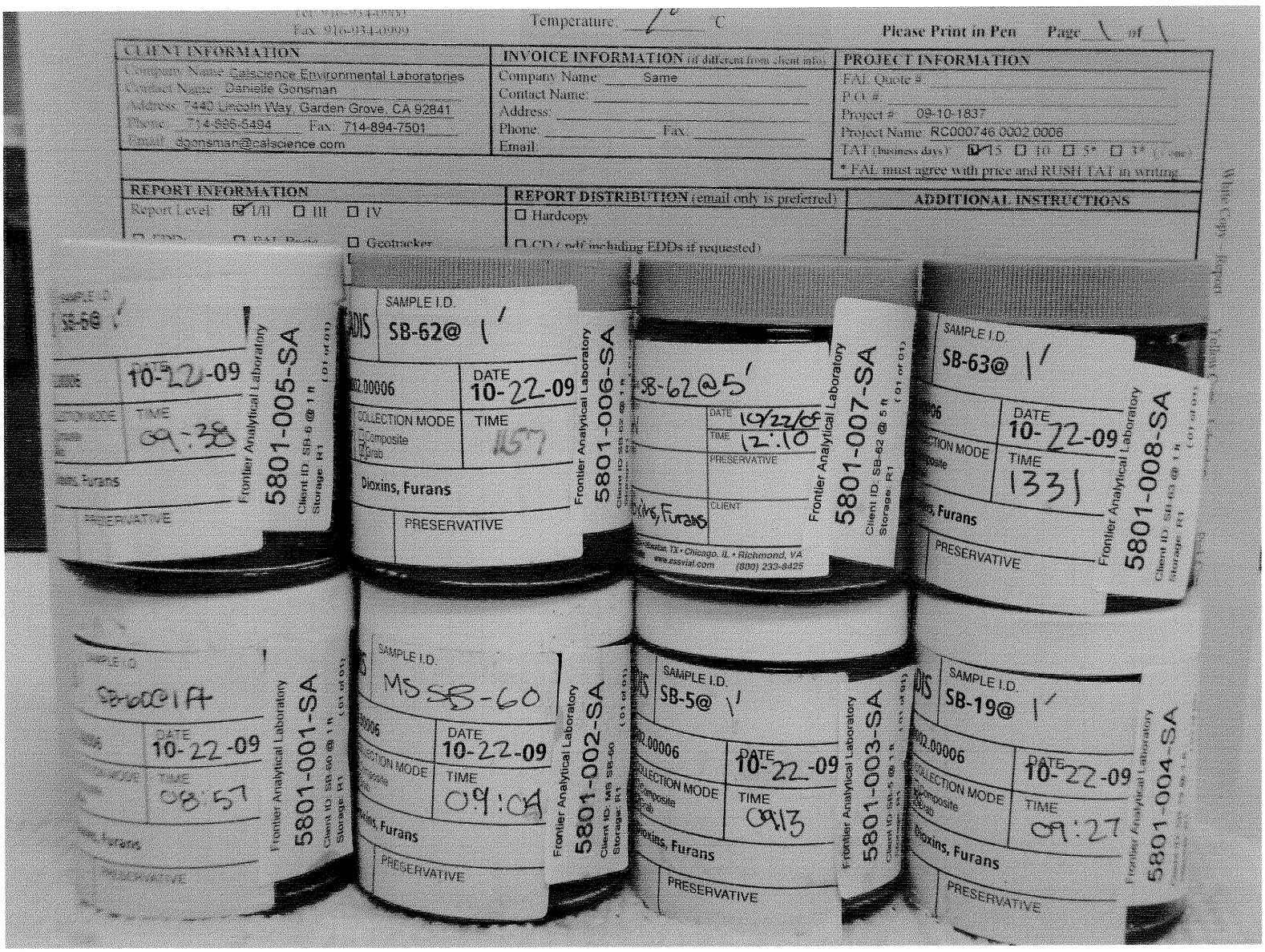
FRONTIER ANALYTICAL LABORATORY

Fax: 916-934-0999 Temperature: 2° C Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1837
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* ( )
		* FAL must agree with price and RUSH TAT in writing

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☑ I/II ☐ III ☐ IV	☐ Hardcopy	
☐ EDD ☐ FAL Basic ☐ Geotracker	☐ CD (.pdf including EDDs if requested)	



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RL000746.0002.00006

Project Location PG&E Radbrook, Oakley

Laboratory CAL science

Project Manager Kathy Brandt

Sampler(s)/Affiliation LK AV - Arcadis/LFR

09-10-1837

(+891)

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	PCBs (USEPA 8082)	Low level VOCs (USEPA 8260B/8235)	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorous Pesticides (USEPA 8141/8014)	PD Metals (USEPA 6010B/7470/7471)	Dioxins + Furans (USEPA 8290)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Remarks	Total
	SB-60@1'	S	0857	1	X	X	X		X	X	X	X	X			6
(MS)	SB-60dup@1'		0904	2	X	X	X		X	X	X	X	X			6
	SB-5@1'		0913	3	X	X	X		X	X	X	X	X	X		6
	SB-19@1'		0927	4	X	X	X		X	X	X	X	X	X		6
	SB-6@1'		0938	5	X	X	X		X	X	X	X	X	X		6
	SB-64@15'		1142	6	X		X	X			X		X			5
	SB-62@1'		1157	7	X	X	X		X	X	X	X	X			6
	SB-62@5'		1210	8	Hold	Hold	Hold	H	Hold	Hold	Hold	Hold	Hold	Hold		6
	SB-62@15'		1223	9	X		X	X			X		X			5
	SB-63@1'		1331	10	X	X	X		X	X	X	X	X			6
	SB-63@5'		1340	11	Hold	→							→	Hold		6
	SB-63@15'		1348	12	X		X	X			X		X			5
	SB-65@15'		1407	13	X		X	X			X		X			5
	~~SB-66@15'~~															

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 74

Relinquished by: [signature]	Organization: Arcadis/LFR	Date 10/22/09	Time 1422	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1422	Yes No N/A	
Relinquished by: [signature] TO GSC	Organization: CEL	Date 10/22/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/23/09	Time 1000	Yes No N/A	

Special Instructions/Remarks:

5128847 47

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1837

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Arcadis

DATE: 10/23/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** NC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** NC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** DL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑ 4ozCGJ #11 ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve ☐ EnCores® ☑ TerraCores® 3 ☑ 2 oz PJ

Water: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s**

☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 1PB ☐ 500PB ☐ 500PB**na**

☐ 250PB ☐ 250PB**n** ☐ 125PB ☐ 125PB**znna** ☐ 100PJ ☐ 100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐ Tedlar® ☐ Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** DL

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** WSC

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** DL

Calscience Environmental Laboratories, Inc.

November 03, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1891**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/23/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1891
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-I**	**10/22/09 10:00**	**Aqueous**	**ICP 5300**	**10/23/09**	**10/24/09 13:45**	**091023LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 11:50:29 AM with batch 091023L03F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0805	0.0100	1	
Lead	ND	0.0100	1						

CPT-4@22	**09-10-1891-2-G**	**10/22/09 11:30**	**Aqueous**	**ICP 5300**	**10/23/09**	**10/24/09 13:47**	**091023LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 11:52:43 AM with batch 091023L03F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0214	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,389**	**N/A**	**Aqueous**	**Mercury**	**10/23/09**	**10/23/09 15:22**	**091023L03F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,831**	**N/A**	**Aqueous**	**ICP 5300**	**10/23/09**	**10/24/09 13:04**	**091023LA1F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-H**	**10/22/09 10:00**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 21:29**	**091026B13**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	120	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	68-140	

CPT-4@22	**09-10-1891-2-F**	**10/22/09 11:30**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 21:45**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

Method Blank	**099-12-211-1,392**	**N/A**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 20:41**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-I**	**10/22/09 10:00**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	**099-10-019-429**	**N/A**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-G**	**10/22/09 10:00**	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09 16:36**	**091023L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	12	1.18		2,4,5-Trichlorophenol	ND	12	1.18	
Aniline	ND	12	1.18		2-Nitroaniline	ND	12	1.18	
Phenol	ND	12	1.18		Dimethyl Phthalate	ND	12	1.18	
Bis(2-Chloroethyl) Ether	ND	29	1.18		3-Nitroaniline	ND	12	1.18	
2-Chlorophenol	ND	12	1.18		2,4-Dinitrophenol	ND	59	1.18	
1,3-Dichlorobenzene	ND	12	1.18		4-Nitrophenol	ND	12	1.18	
1,4-Dichlorobenzene	ND	12	1.18		Dibenzofuran	ND	12	1.18	
Benzyl Alcohol	ND	12	1.18		2,4-Dinitrotoluene	ND	12	1.18	
1,2-Dichlorobenzene	ND	12	1.18		2,6-Dinitrotoluene	ND	12	1.18	
2-Methylphenol	ND	12	1.18		Diethyl Phthalate	ND	12	1.18	
Bis(2-Chloroisopropyl) Ether	ND	12	1.18		4-Chlorophenyl-Phenyl Ether	ND	12	1.18	
3/4-Methylphenol	ND	12	1.18		4-Nitroaniline	ND	12	1.18	
N-Nitroso-di-n-propylamine	ND	12	1.18		Azobenzene	ND	12	1.18	
Hexachloroethane	ND	12	1.18		4,6-Dinitro-2-Methylphenol	ND	59	1.18	
Nitrobenzene	ND	29	1.18		N-Nitrosodiphenylamine	ND	12	1.18	
Isophorone	ND	12	1.18		4-Bromophenyl-Phenyl Ether	ND	12	1.18	
2-Nitrophenol	ND	12	1.18		Hexachlorobenzene	ND	12	1.18	
2,4-Dimethylphenol	ND	12	1.18		Pentachlorophenol	ND	12	1.18	
Benzoic Acid	ND	59	1.18		Di-n-Butyl Phthalate	ND	12	1.18	
Bis(2-Chloroethoxy) Methane	ND	12	1.18		Benzidine	ND	59	1.18	
2,4-Dichlorophenol	ND	12	1.18		Pyridine	ND	12	1.18	
4-Chloroaniline	ND	12	1.18		Butyl Benzyl Phthalate	ND	12	1.18	
Hexachloro-1,3-Butadiene	ND	12	1.18		3,3'-Dichlorobenzidine	ND	29	1.18	
4-Chloro-3-Methylphenol	ND	12	1.18		Bis(2-Ethylhexyl) Phthalate	ND	12	1.18	
Hexachlorocyclopentadiene	ND	29	1.18		Di-n-Octyl Phthalate	ND	12	1.18	
2,4,6-Trichlorophenol	ND	12	1.18		1,2,4-Trichlorobenzene	ND	12	1.18	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	36	7-121		Phenol-d6	28	1-127	
Nitrobenzene-d5	89	50-146		2-Fluorobiphenyl	80	42-138	
2,4,6-Tribromophenol	47	41-137		p-Terphenyl-d14	93	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@22	**09-10-1891-2-E**	**10/22/09 11:30**	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09 17:02**	**091023L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	14	1.43		2,4,5-Trichlorophenol	ND	14	1.43	
Aniline	ND	14	1.43		2-Nitroaniline	ND	14	1.43	
Phenol	ND	14	1.43		Dimethyl Phthalate	ND	14	1.43	
Bis(2-Chloroethyl) Ether	ND	36	1.43		3-Nitroaniline	ND	14	1.43	
2-Chlorophenol	ND	14	1.43		2,4-Dinitrophenol	ND	71	1.43	
1,3-Dichlorobenzene	ND	14	1.43		4-Nitrophenol	ND	14	1.43	
1,4-Dichlorobenzene	ND	14	1.43		Dibenzofuran	ND	14	1.43	
Benzyl Alcohol	ND	14	1.43		2,4-Dinitrotoluene	ND	14	1.43	
1,2-Dichlorobenzene	ND	14	1.43		2,6-Dinitrotoluene	ND	14	1.43	
2-Methylphenol	ND	14	1.43		Diethyl Phthalate	ND	14	1.43	
Bis(2-Chloroisopropyl) Ether	ND	14	1.43		4-Chlorophenyl-Phenyl Ether	ND	14	1.43	
3/4-Methylphenol	ND	14	1.43		4-Nitroaniline	ND	14	1.43	
N-Nitroso-di-n-propylamine	ND	14	1.43		Azobenzene	ND	14	1.43	
Hexachloroethane	ND	14	1.43		4,6-Dinitro-2-Methylphenol	ND	71	1.43	
Nitrobenzene	ND	36	1.43		N-Nitrosodiphenylamine	ND	14	1.43	
Isophorone	ND	14	1.43		4-Bromophenyl-Phenyl Ether	ND	14	1.43	
2-Nitrophenol	ND	14	1.43		Hexachlorobenzene	ND	14	1.43	
2,4-Dimethylphenol	ND	14	1.43		Pentachlorophenol	ND	14	1.43	
Benzoic Acid	ND	71	1.43		Di-n-Butyl Phthalate	ND	14	1.43	
Bis(2-Chloroethoxy) Methane	ND	14	1.43		Benzidine	ND	71	1.43	
2,4-Dichlorophenol	ND	14	1.43		Pyridine	ND	14	1.43	
4-Chloroaniline	ND	14	1.43		Butyl Benzyl Phthalate	ND	14	1.43	
Hexachloro-1,3-Butadiene	ND	14	1.43		3,3'-Dichlorobenzidine	ND	36	1.43	
4-Chloro-3-Methylphenol	ND	14	1.43		Bis(2-Ethylhexyl) Phthalate	ND	14	1.43	
Hexachlorocyclopentadiene	ND	36	1.43		Di-n-Octyl Phthalate	ND	14	1.43	
2,4,6-Trichlorophenol	ND	14	1.43		1,2,4-Trichlorobenzene	ND	14	1.43	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	7-121		Phenol-d6	68	1-127	
Nitrobenzene-d5	102	50-146		2-Fluorobiphenyl	98	42-138	
2,4,6-Tribromophenol	96	41-137		p-Terphenyl-d14	114	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,776**	**N/A**	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09 12:40**	**091023L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	7-121		Phenol-d6	64	1-127	
Nitrobenzene-d5	109	50-146		2-Fluorobiphenyl	101	42-138	
2,4,6-Tribromophenol	98	41-137		p-Terphenyl-d14	116	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-D**	**10/22/09 10:00**	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/28/09 23:42**	**091023L15**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.29	1.43		Pyrene	ND	0.29	1.43	
2-Methylnaphthalene	ND	0.29	1.43		Benzo (a) Anthracene	ND	0.29	1.43	
1-Methylnaphthalene	ND	0.29	1.43		Chrysene	ND	0.29	1.43	
Acenaphthylene	ND	0.29	1.43		Benzo (k) Fluoranthene	ND	0.29	1.43	
Acenaphthene	ND	0.29	1.43		Benzo (b) Fluoranthene	ND	0.29	1.43	
Fluorene	ND	0.29	1.43		Benzo (a) Pyrene	ND	0.29	1.43	
Phenanthrene	ND	0.29	1.43		Indeno (1,2,3-c,d) Pyrene	ND	0.29	1.43	
Anthracene	ND	0.29	1.43		Dibenz (a,h) Anthracene	ND	0.29	1.43	
Fluoranthene	ND	0.29	1.43		Benzo (g,h,i) Perylene	ND	0.29	1.43	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	108	28-139		2-Fluorobiphenyl	112	33-144	
p-Terphenyl-d14	70	23-160					

CPT-4@22	**09-10-1891-2-D**	**10/22/09 11:30**	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/29/09 00:04**	**091023L15**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.25	1.25		Pyrene	ND	0.25	1.25	
2-Methylnaphthalene	ND	0.25	1.25		Benzo (a) Anthracene	ND	0.25	1.25	
1-Methylnaphthalene	ND	0.25	1.25		Chrysene	ND	0.25	1.25	
Acenaphthylene	ND	0.25	1.25		Benzo (k) Fluoranthene	ND	0.25	1.25	
Acenaphthene	ND	0.25	1.25		Benzo (b) Fluoranthene	ND	0.25	1.25	
Fluorene	ND	0.25	1.25		Benzo (a) Pyrene	ND	0.25	1.25	
Phenanthrene	ND	0.25	1.25		Indeno (1,2,3-c,d) Pyrene	ND	0.25	1.25	
Anthracene	ND	0.25	1.25		Dibenz (a,h) Anthracene	ND	0.25	1.25	
Fluoranthene	ND	0.25	1.25		Benzo (g,h,i) Perylene	ND	0.25	1.25	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	106	28-139		2-Fluorobiphenyl	99	33-144	
p-Terphenyl-d14	76	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-008-228**	**N/A**	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/26/09 17:21**	**091023L15**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	125	28-139		2-Fluorobiphenyl	97	33-144	
p-Terphenyl-d14	76	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-F**	**10/22/09 10:00**	**Aqueous**	**GC 44**	**10/23/09**	**10/27/09 05:41**	**091023L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.11	1.11		Endrin	ND	0.11	1.11	
Gamma-BHC	ND	0.11	1.11		Endrin Aldehyde	ND	0.11	1.11	
Beta-BHC	ND	0.11	1.11		4,4'-DDD	ND	0.11	1.11	
Heptachlor	ND	0.11	1.11		Endosulfan II	ND	0.11	1.11	
Delta-BHC	ND	0.11	1.11		4,4'-DDT	ND	0.11	1.11	
Aldrin	ND	0.11	1.11		Endosulfan Sulfate	ND	0.11	1.11	
Heptachlor Epoxide	ND	0.11	1.11		Methoxychlor	ND	0.11	1.11	
Endosulfan I	ND	0.11	1.11		Chlordane	ND	1.1	1.11	
Dieldrin	ND	0.11	1.11		Toxaphene	ND	2.2	1.11	
4,4'-DDE	ND	0.11	1.11		Endrin Ketone	ND	0.11	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	57	50-135		2,4,5,6-Tetrachloro-m-Xylene	86	50-135	

Method Blank	**099-12-529-306**	**N/A**	**Aqueous**	**GC 44**	**10/23/09**	**10/26/09 23:20**	**091023L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	50-135		2,4,5,6-Tetrachloro-m-Xylene	81	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8141B
		Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-E**	**10/22/09 10:00**	**Aqueous**	**GC 35**	**10/23/09**	**10/26/09 17:09**	**091023L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0056	1.11		Merphos	ND	0.0056	1.11	
Bolstar	ND	0.0056	1.11		Methyl Parathion	ND	0.0056	1.11	
Chlorpyrifos	ND	0.0056	1.11		Mevinphos	ND	0.0056	1.11	
Coumaphos	ND	0.0056	1.11		Naled	ND	0.044	1.11	
Diazinon	ND	0.0056	1.11		Phorate	ND	0.0056	1.11	
Dichlorvos	ND	0.0056	1.11		Ronnel	ND	0.0056	1.11	
Disulfoton	ND	0.011	1.11		Stirophos	ND	0.022	1.11	
Ethoprop	ND	0.0056	1.11		Tokuthion	ND	0.0056	1.11	
Fensulfothion	ND	0.0056	1.11		Trichloronate	ND	0.0056	1.11	
Fenthion	ND	0.0056	1.11		Demeton-o/s	ND	0.0056	1.11	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	129	30-130	

Method Blank	**099-12-957-25**	**N/A**	**Aqueous**	**GC 35**	**10/23/09**	**10/26/09 15:38**	**091023L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	130	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1-A**	**10/22/09 10:00**	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09 19:45**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@12	**09-10-1891-1**		**Aqueous**		**10/26/09**	**10/26/09 19:45**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	96	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 3 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@22	**09-10-1891-2-A**	**10/22/09 11:30**	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09 20:14**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	19	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	9.1	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-4@22	**09-10-1891-2**		**Aqueous**		**10/26/09**	**10/26/09 20:14**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	101	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	94	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Trip Blank	**09-10-1891-3-A**	**10/22/09 00:00**	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09 20:43**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Trip Blank	**09-10-1891-3**		**Aqueous**		**10/26/09**	**10/26/09 20:43**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	94	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,274**	**N/A**	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09 12:00**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/23/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,274**	**N/A**	**Aqueous**		**10/26/09**	**10/26/09 12:00**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	101	80-128		Dibromofluoromethane	100	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	93	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/23/09
Work Order No: 09-10-1891
Preparation: EPA 3010A Total
Method: EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1836-1	**Aqueous**	**ICP 5300**	**10/23/09**	**10/24/09**	**091023SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	106	109	72-132	3	0-10	
Arsenic	110	111	80-140	1	0-11	
Beryllium	102	106	89-119	4	0-8	
Cadmium	100	103	82-124	3	0-7	
Chromium	98	101	86-122	3	0-8	
Copper	108	111	78-126	3	0-7	
Lead	100	101	84-120	1	0-7	
Nickel	100	102	84-120	2	0-7	
Selenium	105	109	79-127	3	0-9	
Silver	113	117	86-128	3	0-7	
Thallium	99	101	79-121	1	0-8	
Zinc	107	109	89-131	2	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1891
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2006-1	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	79	83	25-121	5	0-11	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1891
Preparation:	EPA 7470A Total
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1863-9	**Aqueous**	**Mercury**	**10/23/09**	**10/23/09**	**091023S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	101	57-141	3	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/23/09
Work Order No:	09-10-1891
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1722-4	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09**	**091026S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	104	76-124	1	0-20	
Carbon Tetrachloride	93	99	74-134	6	0-20	
Chlorobenzene	97	100	80-120	3	0-20	
1,2-Dibromoethane	94	99	80-120	6	0-20	
1,2-Dichlorobenzene	95	99	80-120	4	0-20	
1,1-Dichloroethene	102	100	73-127	2	0-20	
Ethylbenzene	100	99	78-126	1	0-20	
Toluene	111	105	80-120	6	0-20	
Trichloroethene	97	101	77-120	4	0-20	
Vinyl Chloride	91	91	72-126	1	0-20	
Methyl-t-Butyl Ether (MTBE)	101	102	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	99	97	36-162	2	0-30	
Diisopropyl Ether (DIPE)	104	104	60-138	0	0-45	
Ethyl-t-Butyl Ether (ETBE)	101	101	69-123	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	98	101	65-120	3	0-20	
Ethanol	112	111	30-180	1	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1891
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,831	**Aqueous**	**ICP 5300**	**10/23/09**	**10/24/09**	**091023LA1F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	100	100	80-120	73-127	0	0-20	
Arsenic	100	101	80-120	73-127	1	0-20	
Beryllium	101	101	80-120	73-127	0	0-20	
Cadmium	105	105	80-120	73-127	0	0-20	
Chromium	102	102	80-120	73-127	0	0-20	
Copper	105	105	80-120	73-127	0	0-20	
Lead	107	108	80-120	73-127	1	0-20	
Nickel	107	107	80-120	73-127	0	0-20	
Selenium	94	96	80-120	73-127	2	0-20	
Silver	112	112	80-120	73-127	0	0-20	
Thallium	103	103	80-120	73-127	0	0-20	
Zinc	106	106	80-120	73-127	0	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,392	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09**	**091026B13**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	116	117	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1891
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-429	**Aqueous**	**FLAA2**	**10/29/09**	**NONE**	**091029L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	3.75	3.71	99	57-135	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1891
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,389	**Aqueous**	**Mercury**	**10/23/09**	**10/23/09**	**091023L03F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	102	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1891
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,776	**Aqueous**	**GC/MS SS**	**10/23/09**	**10/27/09**	**091023L09**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	59	59	4-142	0-165	1	0-24	
2-Chlorophenol	94	94	53-113	43-123	0	0-17	
1,4-Dichlorobenzene	89	90	50-122	38-134	1	0-19	
N-Nitroso-di-n-propylamine	108	109	56-146	41-161	2	0-22	
Naphthalene	87	88	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	101	102	55-121	44-132	1	0-18	
Dimethyl Phthalate	91	92	0-112	0-131	0	0-20	
Acenaphthylene	94	94	33-145	14-164	0	0-20	
Acenaphthene	100	102	55-139	41-153	2	0-17	
4-Nitrophenol	10	10	1-145	0-169	2	0-29	
2,4-Dinitrotoluene	98	98	41-161	21-181	0	0-22	
Fluorene	100	102	59-121	49-131	2	0-20	
Pentachlorophenol	85	85	34-130	18-146	0	0-23	
Pyrene	112	112	38-170	16-192	0	0-27	
Butyl Benzyl Phthalate	105	105	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	92	92	49-121	37-133	0	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1891
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-228	**Aqueous**	**GC/MS AAA**	**10/23/09**	**10/28/09**	**091023L15**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	86	86	21-133	2-152	0	0-25	
2-Methylnaphthalene	86	87	21-140	1-160	1	0-25	
1-Methylnaphthalene	86	87	20-140	0-160	1	0-25	
Acenaphthylene	78	79	33-145	14-164	1	0-25	
Acenaphthene	85	85	55-121	44-132	0	0-25	
Fluorene	89	89	59-121	49-131	0	0-25	
Phenanthrene	84	84	54-120	43-131	0	0-25	
Anthracene	65	64	27-133	9-151	1	0-25	
Fluoranthene	76	77	26-137	8-156	1	0-25	
Pyrene	78	79	45-129	31-143	1	0-25	
Benzo (a) Anthracene	81	81	33-143	15-161	1	0-25	
Chrysene	78	78	17-168	0-193	0	0-25	
Benzo (k) Fluoranthene	89	90	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	90	89	24-159	2-182	1	0-25	
Benzo (a) Pyrene	77	77	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	88	88	0-171	0-200	0	0-25	
Dibenz (a,h) Anthracene	85	84	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	84	84	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1891
Preparation: EPA 3510C
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-306	**Aqueous**	**GC 44**	**10/23/09**	**10/26/09**	**091023L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	90	93	50-135	36-149	3	0-25	
Gamma-BHC	91	93	50-135	36-149	2	0-25	
Beta-BHC	94	91	50-135	36-149	3	0-25	
Heptachlor	90	91	50-135	36-149	1	0-25	
Delta-BHC	91	87	50-135	36-149	5	0-25	
Aldrin	85	87	50-135	36-149	2	0-25	
Heptachlor Epoxide	90	91	50-135	36-149	1	0-25	
Endosulfan I	84	90	50-135	36-149	6	0-25	
Dieldrin	84	85	50-135	36-149	1	0-25	
4,4'-DDE	101	96	50-135	36-149	5	0-25	
Endrin	101	100	50-135	36-149	1	0-25	
Endrin Aldehyde	94	97	50-135	36-149	3	0-25	
4,4'-DDD	97	98	50-135	36-149	1	0-25	
Endosulfan II	90	91	50-135	36-149	1	0-25	
4,4'-DDT	99	100	50-135	36-149	0	0-25	
Endosulfan Sulfate	84	86	50-135	36-149	2	0-25	
Methoxychlor	102	103	50-135	36-149	2	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1891
Preparation: EPA 3510C
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-957-25	**Aqueous**	**GC 35**	**10/23/09**	**10/26/09**	**091023L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	96	99	30-130	13-147	3	0-30	
Bolstar	86	88	30-130	13-147	3	0-30	
Chlorpyrifos	88	92	30-130	13-147	5	0-30	
Coumaphos	101	104	30-130	13-147	3	0-30	
Diazinon	96	99	30-130	13-147	3	0-30	
Disulfoton	103	108	30-130	13-147	4	0-30	
Ethoprop	98	105	30-130	13-147	7	0-30	
Fensulfothion	107	111	30-130	13-147	3	0-30	
Fenthion	97	100	30-130	13-147	3	0-30	
Merphos	61	66	30-130	13-147	8	0-30	
Methyl Parathion	91	96	30-130	13-147	5	0-30	
Phorate	110	115	30-130	13-147	5	0-30	
Ronnel	88	93	30-130	13-147	6	0-30	
Stirophos	106	110	30-130	13-147	4	0-30	
Tokuthion	82	86	30-130	13-147	5	0-30	
Trichloronate	94	106	30-130	13-147	11	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1891
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,274	**Aqueous**	**GC/MS BB**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	116	80-120	73-127	12	0-20	
Carbon Tetrachloride	103	117	74-134	64-144	13	0-20	
Chlorobenzene	98	108	80-120	73-127	10	0-20	
1,2-Dibromoethane	100	105	79-121	72-128	5	0-20	
1,2-Dichlorobenzene	97	106	80-120	73-127	9	0-20	
1,1-Dichloroethene	105	120	78-126	70-134	13	0-28	
Ethylbenzene	96	107	80-120	73-127	11	0-20	
Toluene	100	114	80-120	73-127	13	0-20	
Trichloroethene	99	113	79-127	71-135	13	0-20	
Vinyl Chloride	98	110	72-132	62-142	11	0-20	
Methyl-t-Butyl Ether (MTBE)	104	112	69-123	60-132	7	0-20	
Tert-Butyl Alcohol (TBA)	95	96	63-123	53-133	1	0-20	
Diisopropyl Ether (DIPE)	108	120	59-137	46-150	11	0-37	
Ethyl-t-Butyl Ether (ETBE)	102	112	69-123	60-132	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	102	108	70-120	62-128	6	0-20	
Ethanol	104	109	28-160	6-182	5	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1891

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC0007460002.00005

Project Location PG&E Radback

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation CM/ARCADIS

1891

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D	VOCs w/MTBE oxygenates, TICs	SVOC w TICS	PAHs	*priority pollutant metals	organic lead	Remarks	Total
CPT-4G12	W	10/22/09 10:00	1	✓	✓	✓	✓	✓	✓	lab filter & preserve*	8
CPT-4G22	W	10/22/09 11:30	2	✓	✓	✓	✓	✓		for all water	7
TRIP BLANK	W	10/22/09	3		✓					samples	1
										TRIP BLANK	
										ADDED TO COC	
										AS PER KATHY	
										BRANDT - 10-22-09 1540 @	

Sample Matrix: L = Liquid; S = Solid; A = Air W=water

Total No. of Bottles/Containers _____

Relinquished by: Christine Meyer	Organization: ARCADIS	Date 10/22/09	Time 14:22	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1422	Yes No N/A	
Relinquished by: [signature] 10 GSO	Organization: CEL	Date 10/22/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/23/09	Time 1000	Yes No N/A	

Special Instructions/Remarks: _____

5128847 47

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC0007460002.00005

Project Location PG&E Radback - Oakley, CA

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation CM/ARCADIS

(Rev)

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	organochlorine pesticides	organophosphorous pesticides					Remarks	Total
CPT-4G12	W	10/22/09 10:00	1	✓	✓						2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: Christine Meyer	Organization: ARCADIS	Date 10/22/09	Time 14:22	Seal Intact?		
Received by: [signature]	Organization: CEL	Date 10/22/09	Time 1422	Yes	No	N/A
Relinquished by: [signature] to GSD	Organization: CEL	Date 10/22/09	Time 1730	Seal Intact?		
Received by: [signature]	Organization: CEL	Date 10/23/09	Time 1000	Yes	No	N/A

Special Instructions/Remarks:

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1 6 9 1

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/23/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na₂** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** not ours **Checked by:** YL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** DL

Preservative: h: HCL n: HNO3 na₂: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** YL

Calscience Environmental Laboratories, Inc.

November 06, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1967**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/24/09
Work Order No: 09-10-1967
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-66@15'	**09-10-1967-1-A**	**10/22/09 14:34**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 13:12**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:38:11 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.39	0.750	1		Nickel	21.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	17.1	0.250	1		Thallium	ND	0.750	1	
Copper	6.23	0.500	1		Zinc	20.8	1.00	1	
Lead	1.96	0.500	1						

SB-46@1'	**09-10-1967-2-A**	**10/22/09 14:47**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 12:14**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:40:24 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.53	0.750	1		Nickel	12.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.27	0.250	1		Thallium	ND	0.750	1	
Copper	4.72	0.500	1		Zinc	15.8	1.00	1	
Lead	3.01	0.500	1						

SB-22@1'	**09-10-1967-5-A**	**10/22/09 15:08**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 13:14**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:42:37 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.90	0.750	1		Nickel	16.3	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.6	0.250	1		Thallium	ND	0.750	1	
Copper	6.84	0.500	1		Zinc	21.1	1.00	1	
Lead	2.53	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/24/09
Work Order No: 09-10-1967
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@1'	**09-10-1967-8-A**	**10/23/09 08:47**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 13:15**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:44:51 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.66	0.750	1		Nickel	13.9	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.6	0.250	1		Thallium	ND	0.750	1	
Copper	5.96	0.500	1		Zinc	19.5	1.00	1	
Lead	3.67	0.500	1						

SB-14@1'	**09-10-1967-11-A**	**10/23/09 09:17**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 13:16**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:47:04 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.46	0.750	1		Nickel	14.1	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	11.1	0.250	1		Thallium	ND	0.750	1	
Copper	6.95	0.500	1		Zinc	22.3	1.00	1	
Lead	10.4	0.500	1						

SB-21@1'	**09-10-1967-14-A**	**10/23/09 09:42**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 13:18**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:53:50 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.23	0.750	1		Nickel	13.1	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	8.96	0.250	1		Thallium	ND	0.750	1	
Copper	4.43	0.500	1		Zinc	17.6	1.00	1	
Lead	6.57	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/24/09
Work Order No: 09-10-1967
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-44@1'	**09-10-1967-17-A**	**10/23/09 10:08**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 13:19**	**091026L05**

Comment(s): -Mercury was analyzed on 10/26/2009 4:56:05 PM with batch 091026L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.55	0.750	1		Nickel	12.4	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	9.54	0.250	1		Thallium	ND	0.750	1	
Copper	4.46	0.500	1		Zinc	17.9	1.00	1	
Lead	6.11	0.500	1						

Method Blank	**099-04-007-6,620**	**N/A**	**Solid**	**Mercury**	**10/26/09**	**10/26/09 16:27**	**091026L08**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,869**	**N/A**	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09 12:02**	**091026L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

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Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-66@15'	**09-10-1967-1-A**	**10/22/09 14:34**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 21:25**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-46@1'	**09-10-1967-2-A**	**10/22/09 14:47**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 21:40**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22@1'	**09-10-1967-5-A**	**10/22/09 15:08**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 21:56**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	112	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@1'	**09-10-1967-8-A**	**10/23/09 08:47**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 22:11**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	111	61-145	

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Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14@1'	**09-10-1967-11-A**	**10/23/09 09:17**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 22:27**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	61-145	

SB-21@1'	**09-10-1967-14-A**	**10/23/09 09:42**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 22:42**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	120	61-145	

SB-44@1'	**09-10-1967-17-A**	**10/23/09 10:08**	**Solid**	**GC 49**	**10/28/09**	**10/28/09 22:57**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	115	61-145	

Method Blank	**099-12-025-890**	**N/A**	**Solid**	**GC 49**	**10/26/09**	**10/28/09 16:49**	**091028B08**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	61-145	

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Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-66@15'	**09-10-1967-1-C**	**10/22/09 14:34**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-46@1'	**09-10-1967-2-C**	**10/22/09 14:47**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-22@1'	**09-10-1967-5-C**	**10/22/09 15:08**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-45@1'	**09-10-1967-8-C**	**10/23/09 08:47**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-14@1'	**09-10-1967-11-C**	**10/23/09 09:17**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

SB-21@1'	**09-10-1967-14-C**	**10/23/09 09:42**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-44@1'	**09-10-1967-17-C**	**10/23/09 10:08**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,273**	**N/A**	**Solid**	**FLAA2**	**10/29/09**	**10/29/09 16:57**	**091029L01A**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-46@1'	**09-10-1967-2-A**	**10/22/09 14:47**	**Solid**	**GC 37**	**10/26/09**	**10/28/09 20:28**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	83	50-135			2,4,5,6-Tetrachloro-m-Xylene	85	50-135		

SB-22@1'	**09-10-1967-5-A**	**10/22/09 15:08**	**Solid**	**GC 37**	**10/26/09**	**10/29/09 22:58**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	64	50-135			2,4,5,6-Tetrachloro-m-Xylene	67	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report

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ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@1'	**09-10-1967-8-A**	**10/23/09 08:47**	**Solid**	**GC 37**	**10/26/09**	**10/28/09 21:24**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	72	50-135			2,4,5,6-Tetrachloro-m-Xylene	76	50-135		

SB-14@1'	**09-10-1967-11-A**	**10/23/09 09:17**	**Solid**	**GC 44**	**10/26/09**	**10/28/09 21:06**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	72	50-135			2,4,5,6-Tetrachloro-m-Xylene	69	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report

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ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21@1'	**09-10-1967-14-A**	**10/23/09 09:42**	**Solid**	**GC 44**	**10/26/09**	**10/28/09 21:33**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	71	50-135			2,4,5,6-Tetrachloro-m-Xylene	72	50-135		

SB-44@1'	**09-10-1967-17-A**	**10/23/09 10:08**	**Solid**	**GC 44**	**10/26/09**	**10/28/09 22:00**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	74	50-135			2,4,5,6-Tetrachloro-m-Xylene	73	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-758**	**N/A**	**Solid**	**GC 37**	**10/26/09**	**10/28/09 13:27**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	99	50-135			2,4,5,6-Tetrachloro-m-Xylene	81	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-46@1'	**09-10-1967-2-A**	**10/22/09 14:47**	**Solid**	**GC 31**	**10/26/09**	**10/29/09 01:10**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	92	50-130			2,4,5,6-Tetrachloro-m-Xylene	96	50-130		

SB-22@1'	**09-10-1967-5-A**	**10/22/09 15:08**	**Solid**	**GC 31**	**10/26/09**	**10/29/09 19:36**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	96	50-130			2,4,5,6-Tetrachloro-m-Xylene	94	50-130		

SB-45@1'	**09-10-1967-8-A**	**10/23/09 08:47**	**Solid**	**GC 31**	**10/26/09**	**10/29/09 01:48**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	78	50-130			2,4,5,6-Tetrachloro-m-Xylene	75	50-130		

SB-14@1'	**09-10-1967-11-A**	**10/23/09 09:17**	**Solid**	**GC 31**	**10/26/09**	**10/29/09 02:07**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	91	50-130			2,4,5,6-Tetrachloro-m-Xylene	86	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21@1'	**09-10-1967-14-A**	**10/23/09 09:42**	**Solid**	**GC 31**	**10/26/09**	**10/29/09 02:26**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-130		2,4,5,6-Tetrachloro-m-Xylene	81	50-130	

SB-44@1'	**09-10-1967-17-A**	**10/23/09 10:08**	**Solid**	**GC 31**	**10/26/09**	**10/29/09 02:45**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	50-130		2,4,5,6-Tetrachloro-m-Xylene	86	50-130	

Method Blank	**099-12-535-806**	**N/A**	**Solid**	**GC 31**	**10/26/09**	**10/28/09 19:46**	**091026L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	50-130		2,4,5,6-Tetrachloro-m-Xylene	79	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-66@15'	**09-10-1967-1-A**	**10/22/09 14:34**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 18:56**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	42-120		Phenol-d6	94	46-118	
Nitrobenzene-d5	87	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	83	36-132		p-Terphenyl-d14	98	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-46@1'	**09-10-1967-2-A**	**10/22/09 14:47**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 19:22**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	42-120		Phenol-d6	93	46-118	
Nitrobenzene-d5	88	42-150		2-Fluorobiphenyl	87	38-134	
2,4,6-Tribromophenol	81	36-132		p-Terphenyl-d14	101	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22@1'	**09-10-1967-5-A**	**10/22/09 15:08**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 19:48**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	42-120		Phenol-d6	82	46-118	
Nitrobenzene-d5	79	42-150		2-Fluorobiphenyl	77	38-134	
2,4,6-Tribromophenol	67	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@1'	**09-10-1967-8-A**	**10/23/09 08:47**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 20:14**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	89	42-120		Phenol-d6	94	46-118	
Nitrobenzene-d5	91	42-150		2-Fluorobiphenyl	88	38-134	
2,4,6-Tribromophenol	82	36-132		p-Terphenyl-d14	103	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@15'	**09-10-1967-10-A**	**10/23/09 09:01**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 20:41**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	75	42-120		Phenol-d6	80	46-118	
Nitrobenzene-d5	75	42-150		2-Fluorobiphenyl	70	38-134	
2,4,6-Tribromophenol	68	36-132		p-Terphenyl-d14	89	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8270C
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14@1'	**09-10-1967-11-A**	**10/23/09 09:17**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 21:07**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	85	46-118	
Nitrobenzene-d5	83	42-150		2-Fluorobiphenyl	81	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	98	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21@1'	**09-10-1967-14-A**	**10/23/09 09:42**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 21:33**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	86	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	73	36-132		p-Terphenyl-d14	96	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-44@1'	**09-10-1967-17-A**	**10/23/09 10:08**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 21:59**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	42-120		Phenol-d6	88	46-118	
Nitrobenzene-d5	86	42-150		2-Fluorobiphenyl	85	38-134	
2,4,6-Tribromophenol	79	36-132		p-Terphenyl-d14	102	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-975**	**N/A**	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09 11:55**	**091026L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	90	42-150		2-Fluorobiphenyl	83	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	90	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-46@1'	**09-10-1967-2-A**	**10/22/09 14:47**	**Solid**	**GC 26**	**10/26/09**	**10/28/09 23:43**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	96	30-130	

SB-22@1'	**09-10-1967-5-A**	**10/22/09 15:08**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 00:33**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	101	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@1'	**09-10-1967-8-A**	**10/23/09 08:47**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 01:22**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	98	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14@1'	**09-10-1967-11-A**	**10/23/09 09:17**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 12:55**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	103	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21@1'	**09-10-1967-14-A**	**10/23/09 09:42**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 13:44**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	94	30-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-44@1'	**09-10-1967-17-A**	**10/23/09 10:08**	**Solid**	**GC 26**	**10/26/09**	**10/29/09 14:34**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	105	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-465-15**	**N/A**	**Solid**	**GC 26**	**10/26/09**	**10/28/09 18:46**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	101	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-66@15'	**09-10-1967-1-D**	**10/22/09 14:34**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 05:21**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.923		c-1,3-Dichloropropene	ND	0.92	0.923	
Benzene	ND	0.92	0.923		t-1,3-Dichloropropene	ND	1.8	0.923	
Bromobenzene	ND	0.92	0.923		Ethylbenzene	ND	0.92	0.923	
Bromochloromethane	ND	1.8	0.923		2-Hexanone	ND	18	0.923	
Bromodichloromethane	ND	0.92	0.923		Isopropylbenzene	ND	0.92	0.923	
Bromoform	ND	4.6	0.923		p-Isopropyltoluene	ND	0.92	0.923	
Bromomethane	ND	18	0.923		Methylene Chloride	ND	9.2	0.923	
2-Butanone	ND	18	0.923		4-Methyl-2-Pentanone	ND	18	0.923	
n-Butylbenzene	ND	0.92	0.923		Naphthalene	ND	9.2	0.923	
sec-Butylbenzene	ND	0.92	0.923		n-Propylbenzene	ND	1.8	0.923	
tert-Butylbenzene	ND	0.92	0.923		Styrene	ND	0.92	0.923	
Carbon Disulfide	ND	9.2	0.923		1,1,1,2-Tetrachloroethane	ND	0.92	0.923	
Carbon Tetrachloride	ND	0.92	0.923		1,1,2,2-Tetrachloroethane	ND	1.8	0.923	
Chlorobenzene	ND	0.92	0.923		Tetrachloroethene	ND	0.92	0.923	
Chloroethane	ND	1.8	0.923		Toluene	ND	0.92	0.923	
Chloroform	ND	0.92	0.923		1,2,3-Trichlorobenzene	ND	1.8	0.923	
Chloromethane	ND	18	0.923		1,2,4-Trichlorobenzene	ND	1.8	0.923	
2-Chlorotoluene	ND	0.92	0.923		1,1,1-Trichloroethane	ND	0.92	0.923	
4-Chlorotoluene	ND	0.92	0.923		1,1,2-Trichloroethane	ND	0.92	0.923	
Dibromochloromethane	ND	1.8	0.923		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.2	0.923	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.923		Trichloroethene	ND	1.8	0.923	
1,2-Dibromoethane	ND	0.92	0.923		Trichlorofluoromethane	ND	9.2	0.923	
Dibromomethane	ND	0.92	0.923		1,2,3-Trichloropropane	ND	1.8	0.923	
1,2-Dichlorobenzene	ND	0.92	0.923		1,2,4-Trimethylbenzene	ND	1.8	0.923	
1,3-Dichlorobenzene	ND	0.92	0.923		1,3,5-Trimethylbenzene	ND	1.8	0.923	
1,4-Dichlorobenzene	ND	0.92	0.923		Vinyl Acetate	ND	9.2	0.923	
Dichlorodifluoromethane	ND	1.8	0.923		Vinyl Chloride	ND	0.92	0.923	
1,1-Dichloroethane	ND	0.92	0.923		p/m-Xylene	ND	1.8	0.923	
1,2-Dichloroethane	ND	0.92	0.923		o-Xylene	ND	0.92	0.923	
1,1-Dichloroethene	ND	0.92	0.923		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.923	
c-1,2-Dichloroethene	ND	0.92	0.923		Tert-Butyl Alcohol (TBA)	ND	18	0.923	
t-1,2-Dichloroethene	ND	0.92	0.923		Diisopropyl Ether (DIPE)	ND	0.92	0.923	
1,2-Dichloropropane	ND	0.92	0.923		Ethyl-t-Butyl Ether (ETBE)	ND	0.92	0.923	
1,3-Dichloropropane	ND	0.92	0.923		Tert-Amyl-Methyl Ether (TAME)	ND	0.92	0.923	
2,2-Dichloropropane	ND	4.6	0.923		Ethanol	ND	460	0.923	
1,1-Dichloropropene	ND	1.8	0.923						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-46@1'	**09-10-1967-2-D**	**10/22/09 14:47**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 05:50**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	85	53	1.06		c-1,3-Dichloropropene	ND	1.1	1.06	
Benzene	ND	1.1	1.06		t-1,3-Dichloropropene	ND	2.1	1.06	
Bromobenzene	ND	1.1	1.06		Ethylbenzene	ND	1.1	1.06	
Bromochloromethane	ND	2.1	1.06		2-Hexanone	ND	21	1.06	
Bromodichloromethane	ND	1.1	1.06		Isopropylbenzene	ND	1.1	1.06	
Bromoform	ND	5.3	1.06		p-Isopropyltoluene	ND	1.1	1.06	
Bromomethane	ND	21	1.06		Methylene Chloride	ND	11	1.06	
2-Butanone	ND	21	1.06		4-Methyl-2-Pentanone	ND	21	1.06	
n-Butylbenzene	ND	1.1	1.06		Naphthalene	ND	11	1.06	
sec-Butylbenzene	ND	1.1	1.06		n-Propylbenzene	ND	2.1	1.06	
tert-Butylbenzene	ND	1.1	1.06		Styrene	ND	1.1	1.06	
Carbon Disulfide	ND	11	1.06		1,1,1,2-Tetrachloroethane	ND	1.1	1.06	
Carbon Tetrachloride	ND	1.1	1.06		1,1,2,2-Tetrachloroethane	ND	2.1	1.06	
Chlorobenzene	ND	1.1	1.06		Tetrachloroethene	ND	1.1	1.06	
Chloroethane	ND	2.1	1.06		Toluene	ND	1.1	1.06	
Chloroform	ND	1.1	1.06		1,2,3-Trichlorobenzene	ND	2.1	1.06	
Chloromethane	ND	21	1.06		1,2,4-Trichlorobenzene	ND	2.1	1.06	
2-Chlorotoluene	ND	1.1	1.06		1,1,1-Trichloroethane	ND	1.1	1.06	
4-Chlorotoluene	ND	1.1	1.06		1,1,2-Trichloroethane	ND	1.1	1.06	
Dibromochloromethane	ND	2.1	1.06		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.06	
1,2-Dibromo-3-Chloropropane	ND	5.3	1.06		Trichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	1.1	1.06		Trichlorofluoromethane	ND	11	1.06	
Dibromomethane	ND	1.1	1.06		1,2,3-Trichloropropane	ND	2.1	1.06	
1,2-Dichlorobenzene	ND	1.1	1.06		1,2,4-Trimethylbenzene	ND	2.1	1.06	
1,3-Dichlorobenzene	ND	1.1	1.06		1,3,5-Trimethylbenzene	ND	2.1	1.06	
1,4-Dichlorobenzene	ND	1.1	1.06		Vinyl Acetate	ND	11	1.06	
Dichlorodifluoromethane	ND	2.1	1.06		Vinyl Chloride	ND	1.1	1.06	
1,1-Dichloroethane	ND	1.1	1.06		p/m-Xylene	ND	2.1	1.06	
1,2-Dichloroethane	ND	1.1	1.06		o-Xylene	ND	1.1	1.06	
1,1-Dichloroethene	ND	1.1	1.06		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.06	
c-1,2-Dichloroethene	ND	1.1	1.06		Tert-Butyl Alcohol (TBA)	ND	21	1.06	
t-1,2-Dichloroethene	ND	1.1	1.06		Diisopropyl Ether (DIPE)	ND	1.1	1.06	
1,2-Dichloropropane	ND	1.1	1.06		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.06	
1,3-Dichloropropane	ND	1.1	1.06		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.06	
2,2-Dichloropropane	ND	5.3	1.06		Ethanol	ND	530	1.06	
1,1-Dichloropropene	ND	2.1	1.06						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22@1'	**09-10-1967-5-D**	**10/22/09 15:08**	**Solid**	**GC/MS JJ**	**10/22/09**	**10/27/09 06:20**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	110	48	0.956		c-1,3-Dichloropropene	ND	0.96	0.956	
Benzene	ND	0.96	0.956		t-1,3-Dichloropropene	ND	1.9	0.956	
Bromobenzene	ND	0.96	0.956		Ethylbenzene	ND	0.96	0.956	
Bromochloromethane	ND	1.9	0.956		2-Hexanone	ND	19	0.956	
Bromodichloromethane	ND	0.96	0.956		Isopropylbenzene	ND	0.96	0.956	
Bromoform	ND	4.8	0.956		p-Isopropyltoluene	ND	0.96	0.956	
Bromomethane	ND	19	0.956		Methylene Chloride	ND	9.6	0.956	
2-Butanone	ND	19	0.956		4-Methyl-2-Pentanone	ND	19	0.956	
n-Butylbenzene	ND	0.96	0.956		Naphthalene	ND	9.6	0.956	
sec-Butylbenzene	ND	0.96	0.956		n-Propylbenzene	ND	1.9	0.956	
tert-Butylbenzene	ND	0.96	0.956		Styrene	ND	0.96	0.956	
Carbon Disulfide	ND	9.6	0.956		1,1,1,2-Tetrachloroethane	ND	0.96	0.956	
Carbon Tetrachloride	ND	0.96	0.956		1,1,2,2-Tetrachloroethane	ND	1.9	0.956	
Chlorobenzene	ND	0.96	0.956		Tetrachloroethene	ND	0.96	0.956	
Chloroethane	ND	1.9	0.956		Toluene	ND	0.96	0.956	
Chloroform	ND	0.96	0.956		1,2,3-Trichlorobenzene	ND	1.9	0.956	
Chloromethane	ND	19	0.956		1,2,4-Trichlorobenzene	ND	1.9	0.956	
2-Chlorotoluene	ND	0.96	0.956		1,1,1-Trichloroethane	ND	0.96	0.956	
4-Chlorotoluene	ND	0.96	0.956		1,1,2-Trichloroethane	ND	0.96	0.956	
Dibromochloromethane	ND	1.9	0.956		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.6	0.956	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.956		Trichloroethene	ND	1.9	0.956	
1,2-Dibromoethane	ND	0.96	0.956		Trichlorofluoromethane	ND	9.6	0.956	
Dibromomethane	ND	0.96	0.956		1,2,3-Trichloropropane	ND	1.9	0.956	
1,2-Dichlorobenzene	ND	0.96	0.956		1,2,4-Trimethylbenzene	ND	1.9	0.956	
1,3-Dichlorobenzene	ND	0.96	0.956		1,3,5-Trimethylbenzene	ND	1.9	0.956	
1,4-Dichlorobenzene	ND	0.96	0.956		Vinyl Acetate	ND	9.6	0.956	
Dichlorodifluoromethane	ND	1.9	0.956		Vinyl Chloride	ND	0.96	0.956	
1,1-Dichloroethane	ND	0.96	0.956		p/m-Xylene	ND	1.9	0.956	
1,2-Dichloroethane	ND	0.96	0.956		o-Xylene	ND	0.96	0.956	
1,1-Dichloroethene	ND	0.96	0.956		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.956	
c-1,2-Dichloroethene	ND	0.96	0.956		Tert-Butyl Alcohol (TBA)	ND	19	0.956	
t-1,2-Dichloroethene	ND	0.96	0.956		Diisopropyl Ether (DIPE)	ND	0.96	0.956	
1,2-Dichloropropane	ND	0.96	0.956		Ethyl-t-Butyl Ether (ETBE)	ND	0.96	0.956	
1,3-Dichloropropane	ND	0.96	0.956		Tert-Amyl-Methyl Ether (TAME)	ND	0.96	0.956	
2,2-Dichloropropane	ND	4.8	0.956		Ethanol	ND	480	0.956	
1,1-Dichloropropene	ND	1.9	0.956						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@1'	**09-10-1967-8-D**	**10/23/09 08:47**	**Solid**	**GC/MS JJ**	**10/23/09**	**10/27/09 06:52**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	100	48	0.967		c-1,3-Dichloropropene	ND	0.97	0.967	
Benzene	ND	0.97	0.967		t-1,3-Dichloropropene	ND	1.9	0.967	
Bromobenzene	ND	0.97	0.967		Ethylbenzene	ND	0.97	0.967	
Bromochloromethane	ND	1.9	0.967		2-Hexanone	ND	19	0.967	
Bromodichloromethane	ND	0.97	0.967		Isopropylbenzene	ND	0.97	0.967	
Bromoform	ND	4.8	0.967		p-Isopropyltoluene	ND	0.97	0.967	
Bromomethane	ND	19	0.967		Methylene Chloride	ND	9.7	0.967	
2-Butanone	ND	19	0.967		4-Methyl-2-Pentanone	ND	19	0.967	
n-Butylbenzene	ND	0.97	0.967		Naphthalene	ND	9.7	0.967	
sec-Butylbenzene	ND	0.97	0.967		n-Propylbenzene	ND	1.9	0.967	
tert-Butylbenzene	ND	0.97	0.967		Styrene	ND	0.97	0.967	
Carbon Disulfide	ND	9.7	0.967		1,1,1,2-Tetrachloroethane	ND	0.97	0.967	
Carbon Tetrachloride	ND	0.97	0.967		1,1,2,2-Tetrachloroethane	ND	1.9	0.967	
Chlorobenzene	ND	0.97	0.967		Tetrachloroethene	ND	0.97	0.967	
Chloroethane	ND	1.9	0.967		Toluene	ND	0.97	0.967	
Chloroform	ND	0.97	0.967		1,2,3-Trichlorobenzene	ND	1.9	0.967	
Chloromethane	ND	19	0.967		1,2,4-Trichlorobenzene	ND	1.9	0.967	
2-Chlorotoluene	ND	0.97	0.967		1,1,1-Trichloroethane	ND	0.97	0.967	
4-Chlorotoluene	ND	0.97	0.967		1,1,2-Trichloroethane	ND	0.97	0.967	
Dibromochloromethane	ND	1.9	0.967		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.967	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.967		Trichloroethene	ND	1.9	0.967	
1,2-Dibromoethane	ND	0.97	0.967		Trichlorofluoromethane	ND	9.7	0.967	
Dibromomethane	ND	0.97	0.967		1,2,3-Trichloropropane	ND	1.9	0.967	
1,2-Dichlorobenzene	ND	0.97	0.967		1,2,4-Trimethylbenzene	ND	1.9	0.967	
1,3-Dichlorobenzene	ND	0.97	0.967		1,3,5-Trimethylbenzene	ND	1.9	0.967	
1,4-Dichlorobenzene	ND	0.97	0.967		Vinyl Acetate	ND	9.7	0.967	
Dichlorodifluoromethane	ND	1.9	0.967		Vinyl Chloride	ND	0.97	0.967	
1,1-Dichloroethane	ND	0.97	0.967		p/m-Xylene	ND	1.9	0.967	
1,2-Dichloroethane	ND	0.97	0.967		o-Xylene	ND	0.97	0.967	
1,1-Dichloroethene	ND	0.97	0.967		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.967	
c-1,2-Dichloroethene	ND	0.97	0.967		Tert-Butyl Alcohol (TBA)	ND	19	0.967	
t-1,2-Dichloroethene	ND	0.97	0.967		Diisopropyl Ether (DIPE)	ND	0.97	0.967	
1,2-Dichloropropane	ND	0.97	0.967		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.967	
1,3-Dichloropropane	ND	0.97	0.967		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.967	
2,2-Dichloropropane	ND	4.8	0.967		Ethanol	ND	480	0.967	
1,1-Dichloropropene	ND	1.9	0.967						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	96	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-45@15'	**09-10-1967-10-D**	**10/23/09 09:01**	**Solid**	**GC/MS JJ**	**10/23/09**	**10/27/09 07:51**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	52	1.05		c-1,3-Dichloropropene	ND	1.0	1.05	
Benzene	ND	1.0	1.05		t-1,3-Dichloropropene	ND	2.1	1.05	
Bromobenzene	ND	1.0	1.05		Ethylbenzene	ND	1.0	1.05	
Bromochloromethane	ND	2.1	1.05		2-Hexanone	ND	21	1.05	
Bromodichloromethane	ND	1.0	1.05		Isopropylbenzene	ND	1.0	1.05	
Bromoform	ND	5.2	1.05		p-Isopropyltoluene	ND	1.0	1.05	
Bromomethane	ND	21	1.05		Methylene Chloride	ND	10	1.05	
2-Butanone	ND	21	1.05		4-Methyl-2-Pentanone	ND	21	1.05	
n-Butylbenzene	ND	1.0	1.05		Naphthalene	ND	10	1.05	
sec-Butylbenzene	ND	1.0	1.05		n-Propylbenzene	ND	2.1	1.05	
tert-Butylbenzene	ND	1.0	1.05		Styrene	ND	1.0	1.05	
Carbon Disulfide	ND	10	1.05		1,1,1,2-Tetrachloroethane	ND	1.0	1.05	
Carbon Tetrachloride	ND	1.0	1.05		1,1,2,2-Tetrachloroethane	ND	2.1	1.05	
Chlorobenzene	ND	1.0	1.05		Tetrachloroethene	ND	1.0	1.05	
Chloroethane	ND	2.1	1.05		Toluene	ND	1.0	1.05	
Chloroform	ND	1.0	1.05		1,2,3-Trichlorobenzene	ND	2.1	1.05	
Chloromethane	ND	21	1.05		1,2,4-Trichlorobenzene	ND	2.1	1.05	
2-Chlorotoluene	ND	1.0	1.05		1,1,1-Trichloroethane	ND	1.0	1.05	
4-Chlorotoluene	ND	1.0	1.05		1,1,2-Trichloroethane	ND	1.0	1.05	
Dibromochloromethane	ND	2.1	1.05		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.05	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.05		Trichloroethene	ND	2.1	1.05	
1,2-Dibromoethane	ND	1.0	1.05		Trichlorofluoromethane	ND	10	1.05	
Dibromomethane	ND	1.0	1.05		1,2,3-Trichloropropane	ND	2.1	1.05	
1,2-Dichlorobenzene	ND	1.0	1.05		1,2,4-Trimethylbenzene	ND	2.1	1.05	
1,3-Dichlorobenzene	ND	1.0	1.05		1,3,5-Trimethylbenzene	ND	2.1	1.05	
1,4-Dichlorobenzene	ND	1.0	1.05		Vinyl Acetate	ND	10	1.05	
Dichlorodifluoromethane	ND	2.1	1.05		Vinyl Chloride	ND	1.0	1.05	
1,1-Dichloroethane	ND	1.0	1.05		p/m-Xylene	ND	2.1	1.05	
1,2-Dichloroethane	ND	1.0	1.05		o-Xylene	ND	1.0	1.05	
1,1-Dichloroethene	ND	1.0	1.05		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05	
c-1,2-Dichloroethene	ND	1.0	1.05		Tert-Butyl Alcohol (TBA)	ND	21	1.05	
t-1,2-Dichloroethene	ND	1.0	1.05		Diisopropyl Ether (DIPE)	ND	1.0	1.05	
1,2-Dichloropropane	ND	1.0	1.05		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.05	
1,3-Dichloropropane	ND	1.0	1.05		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.05	
2,2-Dichloropropane	ND	5.2	1.05		Ethanol	ND	520	1.05	
1,1-Dichloropropene	ND	2.1	1.05						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	71-137		1,2-Dichloroethane-d4	127	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14@1'	**09-10-1967-11-D**	**10/23/09 09:17**	**Solid**	**GC/MS JJ**	**10/23/09**	**10/27/09 08:20**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	120	58	1.17		c-1,3-Dichloropropene	ND	1.2	1.17	
Benzene	ND	1.2	1.17		t-1,3-Dichloropropene	ND	2.3	1.17	
Bromobenzene	ND	1.2	1.17		Ethylbenzene	ND	1.2	1.17	
Bromochloromethane	ND	2.3	1.17		2-Hexanone	ND	23	1.17	
Bromodichloromethane	ND	1.2	1.17		Isopropylbenzene	ND	1.2	1.17	
Bromoform	ND	5.8	1.17		p-Isopropyltoluene	ND	1.2	1.17	
Bromomethane	ND	23	1.17		Methylene Chloride	ND	12	1.17	
2-Butanone	ND	23	1.17		4-Methyl-2-Pentanone	ND	23	1.17	
n-Butylbenzene	ND	1.2	1.17		Naphthalene	ND	12	1.17	
sec-Butylbenzene	ND	1.2	1.17		n-Propylbenzene	ND	2.3	1.17	
tert-Butylbenzene	ND	1.2	1.17		Styrene	ND	1.2	1.17	
Carbon Disulfide	ND	12	1.17		1,1,1,2-Tetrachloroethane	ND	1.2	1.17	
Carbon Tetrachloride	ND	1.2	1.17		1,1,2,2-Tetrachloroethane	ND	2.3	1.17	
Chlorobenzene	ND	1.2	1.17		Tetrachloroethene	ND	1.2	1.17	
Chloroethane	ND	2.3	1.17		Toluene	ND	1.2	1.17	
Chloroform	ND	1.2	1.17		1,2,3-Trichlorobenzene	ND	2.3	1.17	
Chloromethane	ND	23	1.17		1,2,4-Trichlorobenzene	ND	2.3	1.17	
2-Chlorotoluene	ND	1.2	1.17		1,1,1-Trichloroethane	ND	1.2	1.17	
4-Chlorotoluene	ND	1.2	1.17		1,1,2-Trichloroethane	ND	1.2	1.17	
Dibromochloromethane	ND	2.3	1.17		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.17	
1,2-Dibromo-3-Chloropropane	ND	5.8	1.17		Trichloroethene	ND	2.3	1.17	
1,2-Dibromoethane	ND	1.2	1.17		Trichlorofluoromethane	ND	12	1.17	
Dibromomethane	ND	1.2	1.17		1,2,3-Trichloropropane	ND	2.3	1.17	
1,2-Dichlorobenzene	ND	1.2	1.17		1,2,4-Trimethylbenzene	ND	2.3	1.17	
1,3-Dichlorobenzene	ND	1.2	1.17		1,3,5-Trimethylbenzene	ND	2.3	1.17	
1,4-Dichlorobenzene	ND	1.2	1.17		Vinyl Acetate	ND	12	1.17	
Dichlorodifluoromethane	ND	2.3	1.17		Vinyl Chloride	ND	1.2	1.17	
1,1-Dichloroethane	ND	1.2	1.17		p/m-Xylene	ND	2.3	1.17	
1,2-Dichloroethane	ND	1.2	1.17		o-Xylene	ND	1.2	1.17	
1,1-Dichloroethene	ND	1.2	1.17		Methyl-t-Butyl Ether (MTBE)	ND	2.3	1.17	
c-1,2-Dichloroethene	ND	1.2	1.17		Tert-Butyl Alcohol (TBA)	ND	23	1.17	
t-1,2-Dichloroethene	ND	1.2	1.17		Diisopropyl Ether (DIPE)	ND	1.2	1.17	
1,2-Dichloropropane	ND	1.2	1.17		Ethyl-t-Butyl Ether (ETBE)	ND	1.2	1.17	
1,3-Dichloropropane	ND	1.2	1.17		Tert-Amyl-Methyl Ether (TAME)	ND	1.2	1.17	
2,2-Dichloropropane	ND	5.8	1.17		Ethanol	ND	580	1.17	
1,1-Dichloropropene	ND	2.3	1.17						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21@1'	**09-10-1967-14-D**	**10/23/09 09:42**	**Solid**	**GC/MS JJ**	**10/23/09**	**10/27/09 08:49**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	150	55	1.1		c-1,3-Dichloropropene	ND	1.1	1.1	
Benzene	ND	1.1	1.1		t-1,3-Dichloropropene	ND	2.2	1.1	
Bromobenzene	ND	1.1	1.1		Ethylbenzene	ND	1.1	1.1	
Bromochloromethane	ND	2.2	1.1		2-Hexanone	ND	22	1.1	
Bromodichloromethane	ND	1.1	1.1		Isopropylbenzene	ND	1.1	1.1	
Bromoform	ND	5.5	1.1		p-Isopropyltoluene	ND	1.1	1.1	
Bromomethane	ND	22	1.1		Methylene Chloride	ND	11	1.1	
2-Butanone	ND	22	1.1		4-Methyl-2-Pentanone	ND	22	1.1	
n-Butylbenzene	ND	1.1	1.1		Naphthalene	ND	11	1.1	
sec-Butylbenzene	ND	1.1	1.1		n-Propylbenzene	ND	2.2	1.1	
tert-Butylbenzene	ND	1.1	1.1		Styrene	ND	1.1	1.1	
Carbon Disulfide	ND	11	1.1		1,1,1,2-Tetrachloroethane	ND	1.1	1.1	
Carbon Tetrachloride	ND	1.1	1.1		1,1,2,2-Tetrachloroethane	ND	2.2	1.1	
Chlorobenzene	ND	1.1	1.1		Tetrachloroethene	ND	1.1	1.1	
Chloroethane	ND	2.2	1.1		Toluene	ND	1.1	1.1	
Chloroform	ND	1.1	1.1		1,2,3-Trichlorobenzene	ND	2.2	1.1	
Chloromethane	ND	22	1.1		1,2,4-Trichlorobenzene	ND	2.2	1.1	
2-Chlorotoluene	ND	1.1	1.1		1,1,1-Trichloroethane	ND	1.1	1.1	
4-Chlorotoluene	ND	1.1	1.1		1,1,2-Trichloroethane	ND	1.1	1.1	
Dibromochloromethane	ND	2.2	1.1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.1	
1,2-Dibromo-3-Chloropropane	ND	5.5	1.1		Trichloroethene	ND	2.2	1.1	
1,2-Dibromoethane	ND	1.1	1.1		Trichlorofluoromethane	ND	11	1.1	
Dibromomethane	ND	1.1	1.1		1,2,3-Trichloropropane	ND	2.2	1.1	
1,2-Dichlorobenzene	ND	1.1	1.1		1,2,4-Trimethylbenzene	ND	2.2	1.1	
1,3-Dichlorobenzene	ND	1.1	1.1		1,3,5-Trimethylbenzene	ND	2.2	1.1	
1,4-Dichlorobenzene	ND	1.1	1.1		Vinyl Acetate	ND	11	1.1	
Dichlorodifluoromethane	ND	2.2	1.1		Vinyl Chloride	ND	1.1	1.1	
1,1-Dichloroethane	ND	1.1	1.1		p/m-Xylene	ND	2.2	1.1	
1,2-Dichloroethane	ND	1.1	1.1		o-Xylene	ND	1.1	1.1	
1,1-Dichloroethene	ND	1.1	1.1		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.1	
c-1,2-Dichloroethene	ND	1.1	1.1		Tert-Butyl Alcohol (TBA)	ND	22	1.1	
t-1,2-Dichloroethene	ND	1.1	1.1		Diisopropyl Ether (DIPE)	ND	1.1	1.1	
1,2-Dichloropropane	ND	1.1	1.1		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.1	
1,3-Dichloropropane	ND	1.1	1.1		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.1	
2,2-Dichloropropane	ND	5.5	1.1		Ethanol	ND	550	1.1	
1,1-Dichloropropene	ND	2.2	1.1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-44@1'	**09-10-1967-17-D**	**10/23/09 10:08**	**Solid**	**GC/MS JJ**	**10/23/09**	**10/27/09 09:19**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	90	54	1.09		c-1,3-Dichloropropene	ND	1.1	1.09	
Benzene	ND	1.1	1.09		t-1,3-Dichloropropene	ND	2.2	1.09	
Bromobenzene	ND	1.1	1.09		Ethylbenzene	ND	1.1	1.09	
Bromochloromethane	ND	2.2	1.09		2-Hexanone	ND	22	1.09	
Bromodichloromethane	ND	1.1	1.09		Isopropylbenzene	ND	1.1	1.09	
Bromoform	ND	5.4	1.09		p-Isopropyltoluene	ND	1.1	1.09	
Bromomethane	ND	22	1.09		Methylene Chloride	ND	11	1.09	
2-Butanone	ND	22	1.09		4-Methyl-2-Pentanone	ND	22	1.09	
n-Butylbenzene	ND	1.1	1.09		Naphthalene	ND	11	1.09	
sec-Butylbenzene	ND	1.1	1.09		n-Propylbenzene	ND	2.2	1.09	
tert-Butylbenzene	ND	1.1	1.09		Styrene	ND	1.1	1.09	
Carbon Disulfide	ND	11	1.09		1,1,1,2-Tetrachloroethane	ND	1.1	1.09	
Carbon Tetrachloride	ND	1.1	1.09		1,1,2,2-Tetrachloroethane	ND	2.2	1.09	
Chlorobenzene	ND	1.1	1.09		Tetrachloroethene	ND	1.1	1.09	
Chloroethane	ND	2.2	1.09		Toluene	ND	1.1	1.09	
Chloroform	ND	1.1	1.09		1,2,3-Trichlorobenzene	ND	2.2	1.09	
Chloromethane	ND	22	1.09		1,2,4-Trichlorobenzene	ND	2.2	1.09	
2-Chlorotoluene	ND	1.1	1.09		1,1,1-Trichloroethane	ND	1.1	1.09	
4-Chlorotoluene	ND	1.1	1.09		1,1,2-Trichloroethane	ND	1.1	1.09	
Dibromochloromethane	ND	2.2	1.09		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.09	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.09		Trichloroethene	ND	2.2	1.09	
1,2-Dibromoethane	ND	1.1	1.09		Trichlorofluoromethane	ND	11	1.09	
Dibromomethane	ND	1.1	1.09		1,2,3-Trichloropropane	ND	2.2	1.09	
1,2-Dichlorobenzene	ND	1.1	1.09		1,2,4-Trimethylbenzene	ND	2.2	1.09	
1,3-Dichlorobenzene	ND	1.1	1.09		1,3,5-Trimethylbenzene	ND	2.2	1.09	
1,4-Dichlorobenzene	ND	1.1	1.09		Vinyl Acetate	ND	11	1.09	
Dichlorodifluoromethane	ND	2.2	1.09		Vinyl Chloride	ND	1.1	1.09	
1,1-Dichloroethane	ND	1.1	1.09		p/m-Xylene	ND	2.2	1.09	
1,2-Dichloroethane	ND	1.1	1.09		o-Xylene	ND	1.1	1.09	
1,1-Dichloroethene	ND	1.1	1.09		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.09	
c-1,2-Dichloroethene	ND	1.1	1.09		Tert-Butyl Alcohol (TBA)	ND	22	1.09	
t-1,2-Dichloroethene	ND	1.1	1.09		Diisopropyl Ether (DIPE)	ND	1.1	1.09	
1,2-Dichloropropane	ND	1.1	1.09		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.09	
1,3-Dichloropropane	ND	1.1	1.09		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.09	
2,2-Dichloropropane	ND	5.4	1.09		Ethanol	ND	540	1.09	
1,1-Dichloropropene	ND	2.2	1.09						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,419**	**N/A**	**Solid**	**GC/MS JJ**	**10/26/09**	**10/27/09 04:19**	**091026L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	71-137		1,2-Dichloroethane-d4	112	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	100	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-46@1'	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09**	**091026S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	54	57	50-115	5	0-20	
Arsenic	107	102	75-125	4	0-20	
Beryllium	105	102	75-125	2	0-20	
Cadmium	99	98	75-125	1	0-20	
Chromium	105	102	75-125	2	0-20	
Copper	107	105	75-125	2	0-20	
Lead	103	101	75-125	2	0-20	
Nickel	110	109	75-125	0	0-20	
Selenium	97	96	75-125	2	0-20	
Silver	114	111	75-125	3	0-20	
Thallium	103	101	75-125	2	0-20	
Zinc	103	103	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1861-1	**Solid**	**GC 49**	**10/28/09**	**10/28/09**	**091028S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	106	105	64-130	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1721-2	**Solid**	**FLAA2**	**10/29/09**	**10/29/09**	**090129S01A**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	105	107	22-148	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-46@1'	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	107	71-137	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1761-18	**Solid**	**GC 37**	**10/26/09**	**10/28/09**	**091026S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	92	89	50-135	4	0-25	
Gamma-BHC	93	91	50-135	2	0-25	
Beta-BHC	99	96	50-135	3	0-25	
Heptachlor	90	86	50-135	4	0-25	
Delta-BHC	97	106	50-135	10	0-25	
Aldrin	88	82	50-135	8	0-25	
Heptachlor Epoxide	81	72	50-135	12	0-25	
Endosulfan I	83	82	50-135	1	0-25	
Dieldrin	87	84	50-135	4	0-25	
4,4'-DDE	89	90	50-135	1	0-25	
Endrin	104	98	50-135	6	0-25	
Endrin Aldehyde	99	84	50-135	16	0-25	
4,4'-DDD	91	83	50-135	9	0-25	
Endosulfan II	91	86	50-135	6	0-25	
4,4'-DDT	90	86	50-135	5	0-25	
Endosulfan Sulfate	91	86	50-135	6	0-25	
Methoxychlor	86	83	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1761-18	**Solid**	**GC 31**	**10/26/09**	**10/30/09**	**091026S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	106	123	50-135	15	0-20	
Aroclor-1260	113	120	50-135	6	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/24/09
Work Order No: 09-10-1967
Preparation: EPA 3545
Method: EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1837-1	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09**	**091026S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	89	86	57-123	4	0-16	
2-Chlorophenol	91	87	57-111	5	0-17	
1,4-Dichlorobenzene	95	90	49-127	6	0-20	
N-Nitroso-di-n-propylamine	101	97	54-144	4	0-17	
1,2,4-Trichlorobenzene	96	92	42-132	4	0-20	
Naphthalene	86	83	50-150	3	0-20	
4-Chloro-3-Methylphenol	94	92	50-128	2	0-17	
Dimethyl Phthalate	83	81	50-150	2	0-20	
Acenaphthylene	87	84	50-150	4	0-20	
Acenaphthene	95	92	49-133	3	0-18	
4-Nitrophenol	86	87	30-144	1	0-21	
2,4-Dinitrotoluene	91	89	50-128	2	0-18	
Fluorene	94	91	50-150	3	0-20	
Pentachlorophenol	77	76	29-113	1	0-22	
Pyrene	108	105	47-149	2	0-20	
Butyl Benzyl Phthalate	96	95	50-150	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1721-9	**Solid**	**GC 26**	**10/26/09**	**10/28/09**	**091026S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	112	111	30-130	1	0-30	
Bolstar	97	97	30-130	1	0-30	
Chlorpyrifos	100	99	30-130	0	0-30	
Coumaphos	103	104	30-130	1	0-30	
Diazinon	110	112	30-130	1	0-30	
Disulfoton	101	102	30-130	1	0-30	
Ethoprop	111	111	30-130	0	0-30	
Fensulfothion	100	103	30-130	2	0-30	
Fenthion	104	104	30-130	0	0-30	
Merphos	99	101	30-130	2	0-30	
Methyl Parathion	104	104	30-130	1	0-30	
Phorate	136	137	30-130	1	0-30	3
Ronnel	96	96	30-130	1	0-30	
Stirophos	109	110	30-130	1	0-30	
Tokuthion	99	100	30-130	1	0-30	
Trichloronate	106	106	30-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1967
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,869	**Solid**	**ICP 5300**	**10/26/09**	**10/27/09**	**091026L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	98	98	80-120	73-127	0	0-20	
Arsenic	101	101	80-120	73-127	0	0-20	
Beryllium	100	100	80-120	73-127	0	0-20	
Cadmium	103	101	80-120	73-127	2	0-20	
Chromium	100	100	80-120	73-127	0	0-20	
Copper	103	103	80-120	73-127	0	0-20	
Lead	107	106	80-120	73-127	1	0-20	
Nickel	109	108	80-120	73-127	1	0-20	
Selenium	98	96	80-120	73-127	2	0-20	
Silver	113	115	80-120	73-127	2	0-20	
Thallium	105	105	80-120	73-127	1	0-20	
Zinc	109	108	80-120	73-127	1	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1967
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-890	**Solid**	**GC 49**	**10/26/09**	**10/28/09**	**091028B08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	116	118	75-123	2	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-1967
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,273	**Solid**	**FLAA2**	**10/29/09**	**NONE**	**091029L01A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	26.5	106	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1967
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,620	**Solid**	**Mercury**	**10/26/09**	**10/26/09**	**091026L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	105	85-121	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1967
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-758	**Solid**	**GC 37**	**10/26/09**	**10/28/09**	**091026L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	93	95	50-135	36-149	1	0-25	
Gamma-BHC	94	95	50-135	36-149	1	0-25	
Beta-BHC	97	97	50-135	36-149	0	0-25	
Heptachlor	95	94	50-135	36-149	1	0-25	
Delta-BHC	93	95	50-135	36-149	2	0-25	
Aldrin	92	92	50-135	36-149	0	0-25	
Heptachlor Epoxide	77	82	50-135	36-149	6	0-25	
Endosulfan I	93	93	50-135	36-149	0	0-25	
Dieldrin	95	93	50-135	36-149	2	0-25	
4,4'-DDE	93	95	50-135	36-149	2	0-25	
Endrin	107	104	50-135	36-149	3	0-25	
Endrin Aldehyde	103	89	50-135	36-149	15	0-25	
4,4'-DDD	97	94	50-135	36-149	3	0-25	
Endosulfan II	96	93	50-135	36-149	3	0-25	
4,4'-DDT	101	96	50-135	36-149	5	0-25	
Endosulfan Sulfate	96	93	50-135	36-149	3	0-25	
Methoxychlor	95	91	50-135	36-149	4	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-1967
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-806	**Solid**	**GC 31**	**10/26/09**	**10/29/09**	**091026L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	86	92	50-135	7	0-20	
Aroclor-1260	112	111	50-135	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1967
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-975	**Solid**	**GC/MS SS**	**10/26/09**	**10/29/09**	**091026L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	86	87	59-125	48-136	0	0-15	
2-Chlorophenol	87	87	60-114	51-123	0	0-15	
1,4-Dichlorobenzene	90	90	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	91	91	64-136	52-148	0	0-15	
1,2,4-Trichlorobenzene	93	92	58-118	48-128	1	0-18	
Naphthalene	82	82	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	92	91	61-121	51-131	1	0-14	
Dimethyl Phthalate	83	82	0-112	0-131	0	0-20	
Acenaphthylene	79	79	33-145	14-164	0	0-20	
Acenaphthene	85	85	59-125	48-136	0	0-15	
4-Nitrophenol	87	90	38-152	19-171	3	0-31	
2,4-Dinitrotoluene	88	88	51-141	36-156	1	0-16	
Fluorene	88	89	59-121	49-131	0	0-20	
Pentachlorophenol	73	74	38-116	25-129	1	0-20	
Pyrene	96	94	51-141	36-156	3	0-14	
Butyl Benzyl Phthalate	93	91	0-152	0-177	3	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1967
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-15	**Solid**	**GC 26**	**10/26/09**	**10/28/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	114	112	30-130	13-147	2	0-30	
Bolstar	94	95	30-130	13-147	1	0-30	
Chlorpyrifos	98	98	30-130	13-147	1	0-30	
Coumaphos	103	104	30-130	13-147	1	0-30	
Diazinon	109	110	30-130	13-147	1	0-30	
Disulfoton	99	101	30-130	13-147	2	0-30	
Ethoprop	108	110	30-130	13-147	1	0-30	
Fensulfothion	100	100	30-130	13-147	0	0-30	
Fenthion	102	103	30-130	13-147	1	0-30	
Merphos	97	99	30-130	13-147	1	0-30	
Methyl Parathion	102	102	30-130	13-147	0	0-30	
Phorate	129	128	30-130	13-147	1	0-30	
Ronnel	94	95	30-130	13-147	1	0-30	
Stirophos	107	107	30-130	13-147	0	0-30	
Tokuthion	97	98	30-130	13-147	1	0-30	
Trichloronate	103	105	30-130	13-147	1	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-1967
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,419	**Solid**	**GC/MS JJ**	**10/26/09**	**10/27/09**	**091026L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	93	94	85-115	80-120	1	0-11	
Carbon Tetrachloride	92	93	68-134	57-145	2	0-14	
Chlorobenzene	93	93	83-119	77-125	0	0-9	
1,2-Dibromoethane	97	98	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	84	84	57-135	44-148	0	0-10	
1,1-Dichloroethene	94	93	72-120	64-128	1	0-10	
Ethylbenzene	95	96	80-120	73-127	1	0-20	
Toluene	96	97	67-127	57-137	1	0-10	
Trichloroethene	109	112	88-112	84-116	3	0-9	
Vinyl Chloride	80	81	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	84	86	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	97	95	31-145	12-164	2	0-23	
Diisopropyl Ether (DIPE)	99	102	74-128	65-137	3	0-10	
Ethyl-t-Butyl Ether (ETBE)	85	88	77-125	69-133	3	0-9	
Tert-Amyl-Methyl Ether (TAME)	80	82	81-123	74-130	2	0-10	ME
Ethanol	96	89	44-152	26-170	8	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 1
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-1967

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.000006

Project Location Oakley, CA

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation A. Valdivia w/ Arcadis LFR

09-10-1967

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	Low Level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C)	Organochlorine Pesticides (USEPA 8310)	Organophosphorus Pesticides (USEPA 8081)	PCBs (USEPA 8141/614)	TEL (DHS LUFT)	PP Metals (USEPA 6010B/7470/7471)	Dioxins & Furans (USEPA 8280)			Remarks	Total
SB-66@15'	S	10/22 1434	1	X	X	X					X	X					5
SB-46@1'	↓	↓ 1447	2	X	X	X		X	X	X	X	X	X				6
SB-46@5'		1451	3	Hold	→								Hold				6
SB-46@15'		1459	4		Hold	Hold											5
SB-22@1'		1508	5	X	X	X		X	X	X	X	X	X				6
SB-22@5'	↓	↓ 1522	6	Hold	→								Hold				6
SB-22@15'	S	10/22 1543	7		Hold	Hold											5
SB-45@1'		10/23 0847	8	X	X	X		X	X	X	X	X	X				6
SB-45@5'		0852	9	Hold	→								Hold				6
SB-45@15'		0901	10		X	X											5
SB-14@1'		0917	11	X	X	X		X	X	X	X	X	X				6
SB-14@5'		0924	12	Hold	→								Hold				6
SB-14@15'		0935	13		Hold	Hold											5
SB-21@1'	↓	↓ 0942	14	X	X	X		X	X	X	X	X	X				6
SB-21@5'	S	10/23 0948	15	Hold	→								Hold				6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 85

Relinquished by: [signature]	Organization: Arcadis	Date 10/23/09	Time 1357	Seal Intact? Yes No N/A	
Received by: Jon Oppelty	Organization: CAL Science	Date 10/23/09	Time 1357		
Relinquished by: [signature] TO GSO	Organization: CEL	Date 10/23/09	Time 1730	Seal Intact? Yes No N/A	
Received by: [signature] CEL	Organization: CEL	Date 10/24/09	Time 0945		

Special Instructions/Remarks: GSO 5128926 11

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.00006

Project Location Oakley, CA

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation A. Valdivia w/Arcadis LFR

09-10-1967

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	Low Level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/614)	PCBs (USEPA 8082)	TEL (DHS LUFT)	PP Metals (USEPA 6010B/7470/7471)	Dioxins & Furans (USEPA 8280)	Remarks	Total
SB-21@15'		10/23 0958	16		Hold	Hold									5
SB-44@1'		1008	17	X	X	X		X	X	X	X	X	X		6
SB-44@5'		1012	18	Hold	→	→	→	→	→	→	→	→	Hold		6
SB-44@15'		1019	19		Hold	Hold									5
~~SB-68@1'~~															

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 22

Relinquished by: [signature]	Organization: Arcadis	Date 10/23/09	Time 13:57	Seal Intact?	
Received by: [signature]	Organization: CALscience	Date 10/23/09	Time 1357	Yes No N/A	
Relinquished by: [signature] to GSD	Organization: CEL	Date 10/23/09	Time 1730	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 10/24/09	Time 0945	Yes No N/A	

Special Instructions/Remarks: 51289261 1

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1967

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/24/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** SD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 2oz RJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** SD

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** YC

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** SD

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 12, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-1967**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

November 12, 2009

FAL Project ID: 5808

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5808**. This corresponds to your project number **09-10-1967**. Twelve soil samples were received on 10/27/2009 in good condition. Per your chain of custody instructions, samples 5808-002-SA, 5808-004-SA, 5808-006-SA, 5808-008-SA, 5808-010-SA and 5808-012-SA (Calscience Sample IDs: SB-46 @ 5ft , SB-22 @ 5ft, SB-45 @ 5ft, SB-14, SB-21 @ 5ft and SB-44 @ 5ft respectively) were placed on hold. The remaining six samples were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5808**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested. In addition, an electronic disk deliverable (EDD) for this project has been e-mailed to you.

If you have any questions regarding project **5808**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

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ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5808**

Received on: **10/27/2009** Project Due: **11/18/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5808-001-SA	0	09-10-1967	SB-46 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	02:47 pm	11/21/2009
5808-002-SA	0	09-10-1967	SB-46 @ 5 ft	EPA 8290 D/F	Soil	10/22/2009	02:51 pm	11/21/2009
5808-003-SA	0	09-10-1967	SB-22 @ 1 ft	EPA 8290 D/F	Soil	10/22/2009	03:08 pm	11/21/2009
5808-004-SA	0	09-10-1967	SB-22 @ 5 ft	EPA 8290 D/F	Soil	10/22/2009	03:22 pm	11/21/2009
5808-005-SA	0	09-10-1967	SB-45 @ 1 ft	EPA 8290 D/F	Soil	10/23/2009	08:47 am	11/24/2009
5808-006-SA	0	09-10-1967	SB-45 @ 5 ft	EPA 8290 D/F	Soil	10/23/2009	08:52 am	11/24/2009
5808-007-SA	0	09-10-1967	SB-14 @ 1 ft	EPA 8290 D/F	Soil	10/23/2009	09:17 am	11/24/2009
5808-008-SA	0	09-10-1967	SB-14 @ 5 ft	EPA 8290 D/F	Soil	10/23/2009	09:24 am	11/24/2009
5808-009-SA	0	09-10-1967	SB-21 @ 1 ft	EPA 8290 D/F	Soil	10/23/2009	09:42 am	11/24/2009
5808-010-SA	0	09-10-1967	SB-21 @ 5 ft	EPA 8290 D/F	Soil	10/23/2009	09:48 am	11/24/2009
5808-011-SA	0	09-10-1967	SB-44 @ 1 ft	EPA 8290 D/F	Soil	10/23/2009	10:08 am	11/24/2009
5808-012-SA	0	09-10-1967	SB-44 @ 5 ft	EPA 8290 D/F	Soil	10/23/2009	10:12 am	11/24/2009

FAL Sample ID	Notes
5808-001-SA	Using sample ID from COC for our tracking purposes.
5808-002-SA	'HOLD' Using sample ID from COC for our tracking purposes.
5808-004-SA	'HOLD' Using sample ID from COC for our tracking purposes.
5808-005-SA	Using sample ID from COC for our tracking purposes.
5808-006-SA	'HOLD' Using sample ID from COC for our tracking purposes.
5808-007-SA	Using sample ID from COC for our tracking purposes.
5808-008-SA	'HOLD' Using sample ID from COC for our tracking purposes.
5808-009-SA	Using sample ID from COC for our tracking purposes.
5808-010-SA	'HOLD' Using sample ID from COC for our tracking purposes.
5808-011-SA	Using sample ID from COC for our tracking purposes.
5808-012-SA	'HOLD' Using sample ID from COC for our tracking purposes.

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.127		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.152		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.140		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.188		-	0.0680	Total TCDD	ND	0.127	
1,2,3,7,8,9-HxCDD	ND	0.180		-	0.0666	Total PeCDD	ND	0.152	
1,2,3,4,6,7,8-HpCDD	ND	0.376		-	0.0927	Total HxCDD	ND	0.188	
OCDD	ND	0.837		-	0.272	Total HpCDD	ND	0.376	
2,3,7,8-TCDF	ND	0.0634		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.123		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.156		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.133		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.144		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.132		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.193		-	0.0493	Total TCDF	ND	0.0634	
1,2,3,4,6,7,8-HpCDF	ND	0.231		-	0.0404	Total PeCDF	ND	0.156	
1,2,3,4,7,8,9-HpCDF	ND	0.220		-	0.0469	Total HxCDF	ND	0.193	
OCDF	ND	0.351		-	0.177	Total HpCDF	ND	0.231	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	73.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	73.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	56.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	54.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	60.2	40.0 - 135	
13C-OCDD	58.8	40.0 - 135	
13C-2,3,7,8-TCDF	74.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	65.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	65.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	56.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	55.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	55.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	61.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	52.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	70.3	40.0 - 135	
13C-OCDF	62.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	85.5	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: k
Date: 11/12/09

Reviewed By: DAJ
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 11-11-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	8.94	7.00 - 13.0	
1,2,3,7,8-PeCDD	47.3	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	44.9	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	44.5	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	44.0	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	41.4	35.0 - 65.0	
OCDD	82.7	70.0 - 130	
2,3,7,8-TCDF	8.20	7.00 - 13.0	
1,2,3,7,8-PeCDF	44.9	35.0 - 65.0	
2,3,4,7,8-PeCDF	44.3	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	44.3	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	43.5	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	43.5	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	42.9	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	42.8	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	43.0	35.0 - 65.0	
OCDF	85.4	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	101	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	73.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	71.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.3	40.0 - 135	
13C-OCDD	66.5	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	86.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	89.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	71.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	70.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	89.1	40.0 - 135	
13C-OCDF	74.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.9	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/12/09

Reviewed By: DN
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-001-SA
Client ID: SB-46 @ 1 ft
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: 10-27-2009
Amount: 5.14 g
% Solids: 93.88

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 0.00606

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0847		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.168		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.139		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.187		-	0.0680	Total TCDD	ND	0.0847	
1,2,3,7,8,9-HxCDD	ND	0.178		-	0.0666	Total PeCDD	ND	0.168	
1,2,3,4,6,7,8-HpCDD	0.548	-	J	0.00548	0.0927	Total HxCDD	ND	0.187	
OCDD	1.92	-	J	0.000576	0.272	Total HpCDD	1.10	-	J
2,3,7,8-TCDF	ND	0.0795		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.215		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.279		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.0805		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.0843		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.0773		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.110		-	0.0493	Total TCDF	ND	0.0795	
1,2,3,4,6,7,8-HpCDF	ND	0.187		-	0.0404	Total PeCDF	ND	0.279	
1,2,3,4,7,8,9-HpCDF	ND	0.188		-	0.0469	Total HxCDF	ND	0.231	
OCDF	ND	0.263		-	0.177	Total HpCDF	ND	0.188	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	94.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	73.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	69.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.4	40.0 - 135	
13C-OCDD	73.0	40.0 - 135	
13C-2,3,7,8-TCDF	97.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	83.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	84.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	70.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	69.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	68.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	78.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	70.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	88.3	40.0 - 135	
13C-OCDF	77.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/12/09

Reviewed By: DN
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-003-SA
Client ID: SB-22 @ 1 ft
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: 10-27-2009
Amount: 5.36 g
% Solids: 90.96

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 0.000687

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0941		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.153		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.176		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.247		-	0.0680	Total TCDD	ND	0.0941	
1,2,3,7,8,9-HxCDD	ND	0.231		-	0.0666	Total PeCDD	ND	0.153	
1,2,3,4,6,7,8-HpCDD	ND	0.435		-	0.0927	Total HxCDD	ND	0.247	
OCDD	2.29	-	J	0.000687	0.272	Total HpCDD	ND	0.435	
2,3,7,8-TCDF	ND	0.0738		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.123		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.162		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.112		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.119		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.103		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.156		-	0.0493	Total TCDF	ND	0.0738	
1,2,3,4,6,7,8-HpCDF	ND	0.184		-	0.0404	Total PeCDF	ND	0.162	
1,2,3,4,7,8,9-HpCDF	ND	0.186		-	0.0469	Total HxCDF	ND	0.156	
OCDF	ND	0.370		-	0.177	Total HpCDF	ND	0.186	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	75.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	70.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	70.4	40.0 - 135	
13C-OCDD	64.3	40.0 - 135	
13C-2,3,7,8-TCDF	92.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	70.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	69.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	68.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	68.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	62.9	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	81.8	40.0 - 135	
13C-OCDF	69.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	97.5	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: K
Date: 11/12/09

Reviewed By: DN
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-005-SA
Client ID: SB-45 @ 1 ft
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: 10-27-2009
Amount: 5.50 g
% Solids: 92.44

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 0.211

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.112		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.181		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.180		-	0.0496				
1,2,3,6,7,8-HxCDD	0.680	-	J	0.0680	0.0680	Total TCDD	ND	0.112	
1,2,3,7,8,9-HxCDD	0.473	-	J	0.0473	0.0666	Total PeCDD	ND	0.181	
1,2,3,4,6,7,8-HpCDD	6.84	-		0.0684	0.0927	Total HxCDD	2.88	-	J
OCDD	42.8	-		0.0128	0.272	Total HpCDD	12.6	-	
2,3,7,8-TCDF	ND	0.101		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.300		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.392		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.151		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.167		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.144		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.206		-	0.0493	Total TCDF	ND	0.101	
1,2,3,4,6,7,8-HpCDF	1.33	-	J	0.0133	0.0404	Total PeCDF	ND	0.392	
1,2,3,4,7,8,9-HpCDF	ND	0.128		-	0.0469	Total HxCDF	1.61	-	J
OCDF	2.58	-	J	0.000774	0.177	Total HpCDF	3.31	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	79.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	79.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	63.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	61.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	64.7	40.0 - 135	
13C-OCDD	55.0	40.0 - 135	
13C-2,3,7,8-TCDF	81.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	74.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	71.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	61.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	60.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	61.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	70.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	59.1	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	73.3	40.0 - 135	
13C-OCDF	59.4	40.0 - 135	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	84.8	50.0 - 150

Analyst: [signature]
Date: 11/12/09

Reviewed By: DAJ
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-007-SA
Client ID: SB-14 @ 1 ft
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: 10-27-2009
Amount: 5.37 g
% Solids: 94.63

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 5.58

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0800		-	0.0252				
1,2,3,7,8-PeCDD	1.29	-	J	1.29	0.0457				
1,2,3,4,7,8-HxCDD	1.84	-	J	0.184	0.0496				
1,2,3,6,7,8-HxCDD	7.10	-		0.710	0.0680	Total TCDD	0.237	-	J
1,2,3,7,8,9-HxCDD	3.76	-	J	0.376	0.0666	Total PeCDD	4.90	-	
1,2,3,4,6,7,8-HpCDD	154	-		1.54	0.0927	Total HxCDD	31.9	-	
OCDD	1370	-		0.411	0.272	Total HpCDD	271	-	
2,3,7,8-TCDF	0.447	-	J	0.0447	0.0252				
1,2,3,7,8-PeCDF	0.366	-	J	0.0110	0.0365				
2,3,4,7,8-PeCDF	0.464	-	J	0.139	0.0486				
1,2,3,4,7,8-HxCDF	1.50	-	J	0.150	0.0267				
1,2,3,6,7,8-HxCDF	1.18	-	J	0.118	0.0289				
2,3,4,6,7,8-HxCDF	1.26	-	J	0.126	0.0298				
1,2,3,7,8,9-HxCDF	0.481	-	J	0.0481	0.0493	Total TCDF	4.21	-	
1,2,3,4,6,7,8-HpCDF	35.4	-		0.354	0.0404	Total PeCDF	9.98	-	
1,2,3,4,7,8,9-HpCDF	2.61	-	J	0.0261	0.0469	Total HxCDF	32.4	-	
OCDF	159	-		0.0477	0.177	Total HpCDF	124	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.8	40.0 - 135	
13C-1,2,3,7,8-PeCDD	103	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	70.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.3	40.0 - 135	
13C-OCDD	77.0	40.0 - 135	
13C-2,3,7,8-TCDF	93.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	97.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	91.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	66.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	65.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	79.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.0	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	86.1	40.0 - 135	
13C-OCDF	76.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	99.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/12/09

Reviewed By: BAJ
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-009-SA
Client ID: SB-21 @ 1 ft
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: 10-27-2009
Amount: 5.00 g
% Solids: 91.55

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 0.735

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.141		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.223		-	0.0457				
1,2,3,4,7,8-HxCDD	0.350	-	J	0.0350	0.0496				
1,2,3,6,7,8-HxCDD	1.26	-	J	0.126	0.0680	Total TCDD	ND	0.141	
1,2,3,7,8,9-HxCDD	0.747	-	J	0.0747	0.0666	Total PeCDD	ND	0.223	
1,2,3,4,6,7,8-HpCDD	25.2	-		0.252	0.0927	Total HxCDD	6.08	-	
OCDD	186	-		0.0558	0.272	Total HpCDD	43.3	-	
2,3,7,8-TCDF	ND	0.149		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.244		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.343		-	0.0486				
1,2,3,4,7,8-HxCDF	0.396	-	J	0.0396	0.0267				
1,2,3,6,7,8-HxCDF	0.314	-	J	0.0314	0.0289				
2,3,4,6,7,8-HxCDF	0.338	-	J	0.0338	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.172		-	0.0493	Total TCDF	ND	0.149	
1,2,3,4,6,7,8-HpCDF	7.28	-		0.0728	0.0404	Total PeCDF	2.15	-	J
1,2,3,4,7,8,9-HpCDF	0.608	-	J	0.00608	0.0469	Total HxCDF	7.58	-	
OCDF	26.1	-		0.00783	0.177	Total HpCDF	22.3	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	92.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	68.2	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	74.2	40.0 - 135	
13C-OCDD	66.1	40.0 - 135	
13C-2,3,7,8-TCDF	88.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	84.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	78.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	69.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	67.5	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	68.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	77.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	68.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.8	40.0 - 135	
13C-OCDF	69.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/12/09

Reviewed By: DN
Date: 11/12/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5808-011-SA
Client ID: SB-44 @ 1 ft
Matrix: Soil
Batch No: X1878

Date Extracted: 11-09-2009
Date Received: 10-27-2009
Amount: 5.32 g
% Solids: 94.04

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-11-2009
2005 WHO TEQ: 0.378

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.154		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.185		-	0.0457				
1,2,3,4,7,8-HxCDD	0.175	-	J	0.0175	0.0496				
1,2,3,6,7,8-HxCDD	0.725	-	J	0.0725	0.0680	Total TCDD	ND	0.154	
1,2,3,7,8,9-HxCDD	0.427	-	J	0.0427	0.0666	Total PeCDD	ND	0.185	
1,2,3,4,6,7,8-HpCDD	12.8	-		0.128	0.0927	Total HxCDD	3.20	-	J
OCDD	83.6	-		0.0251	0.272	Total HpCDD	21.4	-	
2,3,7,8-TCDF	ND	0.150		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.227		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.314		-	0.0486				
1,2,3,4,7,8-HxCDF	0.235	-	J	0.0235	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.144		-	0.0289				
2,3,4,6,7,8-HxCDF	0.258	-	J	0.0258	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.188		-	0.0493	Total TCDF	0.245	-	J
1,2,3,4,6,7,8-HpCDF	3.91	-	J	0.0391	0.0404	Total PeCDF	2.44	-	J
1,2,3,4,7,8,9-HpCDF	ND	0.221		-	0.0469	Total HxCDF	4.39	-	J
OCDF	12.8	-		0.00384	0.177	Total HpCDF	11.3	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	80.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	69.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	67.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	71.6	40.0 - 135	
13C-OCDD	65.2	40.0 - 135	
13C-2,3,7,8-TCDF	85.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	72.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	69.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	68.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	67.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	67.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	75.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	67.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	79.6	40.0 - 135	
13C-OCDF	68.0	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	92.3	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/12/09

Reviewed By: DRJ
Date: 11/12/09

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FAL USE ONLY
Laboratory Project No.: 5808
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-1967
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☑ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: _____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	SB-46 @ 1 ft	10-22-09	1447	S	1		X									DIF
2	↓ 5	↓	1451	↓	↓		HOLD									↓
3	-22 1		1508				X									
4	↓ 5	↓	1522				HOLD									
5	-45 1	10-23-09	0847				X									
6	↓ 5	↓	0852				HOLD									
7	-14 1		0917				X									
8	↓ 5		0924				HOLD									
9	-21 1		0942				X									
10	↓ 5		0948				HOLD									
11	-44 1		1008				X									
12	↓ ↓ 5 ↓	↓	1012	↓	↓		HOLD									↓
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Aaron B. Kemp to GSO	10-26-09	1730	Gabby Navarro	10/27/09	1050

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

FRONTIER ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5808**

Client:	Calscience
Client Project ID:	09-10-1967
Date Received:	10/27/2009
Time Received:	10:50 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	12
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	512899408
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/21/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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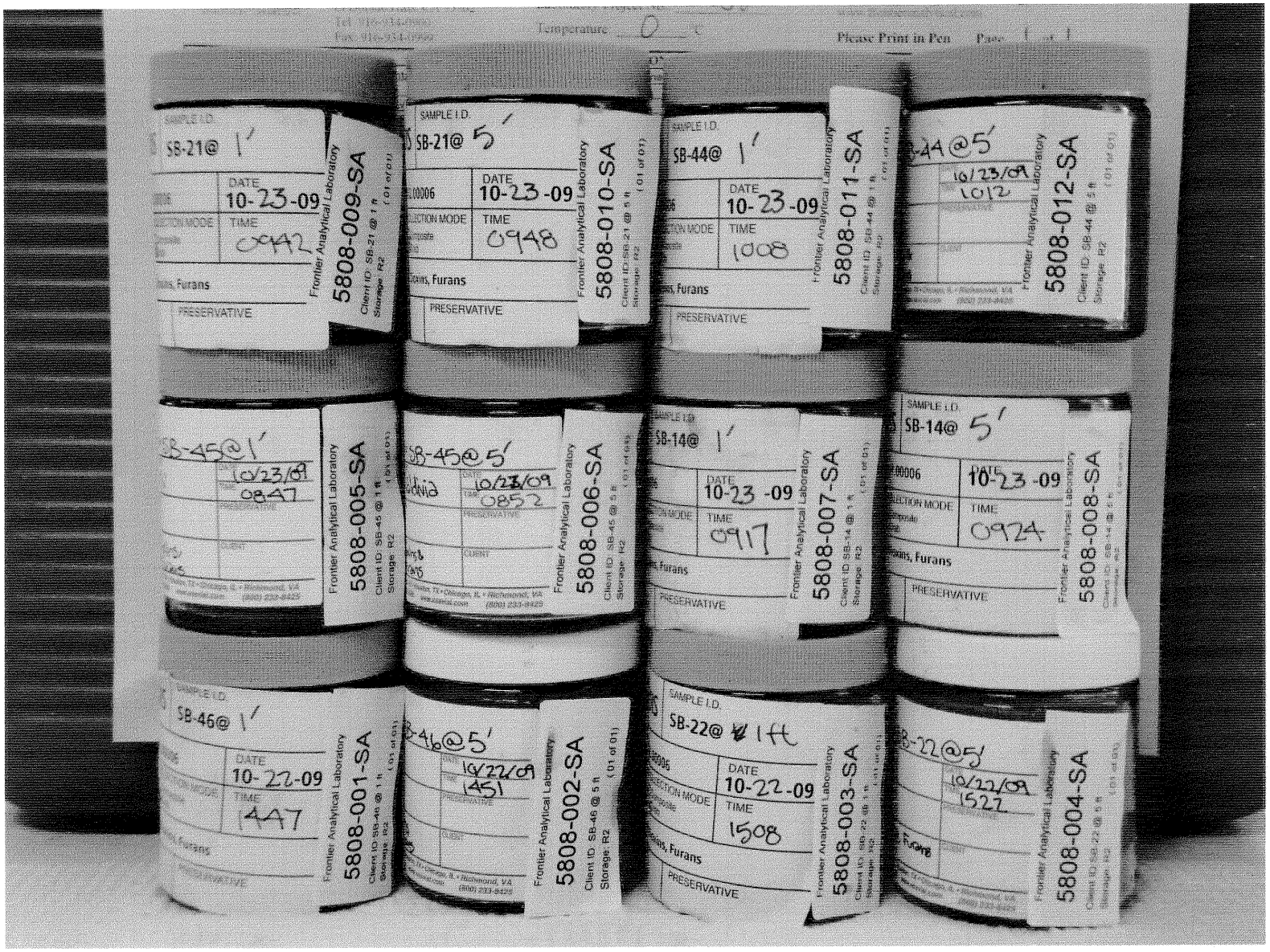
FRONTIER ANALYTICAL LABORATORY



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.000006

Project Location Oakley, CA

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation A. Valdivia w/ Arcadis LFR

09-10-1967

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	Low Level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C)	Organochlorine Pesticides (USEPA 8310)	Organophosphorus Pesticides (USEPA 8081)	PCBs (USEPA 8141/614)	TEL (DHS LUFT)	PP Metals (USEPA 6010B/7470/7471)	Dioxins & Furans (USEPA 8280)			Remarks	Total
SB-66@15'	S	10/22 1434	1	X	X	X					X	X					5
SB-46@1'	↓	↓ 1447	2	X	X	X		X	X	X	X	X	X				6
SB-46@5'		1451	3	Hold	→								Hold				6
SB-46@15'		1459	4		Hold	Hold											5
SB-22@1'		1508	5	X	X	X		X	X	X	X	X	X				6
SB-22@5'	↓	↓ 1522	6	Hold	→								Hold				6
SB-22@15'	S	10/22 1543	7		Hold	Hold											5
SB-45@1'		10/23 0847	8	X	X	X		X	X	X	X	X	X				6
SB-45@5'		0852	9	Hold	→								Hold				6
SB-45@15'		0901	10		X	X											5
SB-14@1'		0917	11	X	X	X		X	X	X	X	X	X				6
SB-14@5'		0924	12	Hold	→								Hold				6
SB-14@15'		0935	13		Hold	Hold											5
SB-21@1'	↓	↓ 0942	14	X	X	X		X	X	X	X	X	X				6
SB-21@5'	S	10/23 0948	15	Hold	→								Hold				6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 85

Relinquished by: [signature]	Organization: Arcadis	Date 10/23/09	Time 1357	Seal Intact? Yes No N/A
Received by: Jon Oppelty	Organization: CAS Science	Date 10/23/09	Time 1357	
Relinquished by: [signature] 20680	Organization: CEL	Date 10/23/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature] CEL	Organization: CEL	Date 10/24/09	Time 0945	

Special Instructions/Remarks: GSO 5128926 11

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Project Number/Name RC000746.0002.00006

Project Location Oakley, CA

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation A. Valdivia w/Arcadis LFR

09-10-1967

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	Low Level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/614)	PCBs (USEPA 8082)	TEL (DHS LUFT)	PP Metals (USEPA 6010B/7470/7471)	Dioxins & Furans (USEPA 8280)	Remarks	Total
SB-21@15'		10/23 0958	16		Hold	Hold									5
SB-44@1'		1008	17	X	X	X		X	X	X	X	X	X		6
SB-44@5'		1012	18	Hold	→	→	→	→	→	→	→	→	Hold		6
SB-44@15'		1019	19		Hold	Hold									5
~~SB-68@1'~~															

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 22

Relinquished by: [signature]	Organization: Arcadis	Date 10/23/09	Time 13:57	Seal Intact?	
Received by: [signature]	Organization: CALscience	Date 10/23/09	Time 1357	Yes No N/A	
Relinquished by: [signature] to GSO	Organization: CEL	Date 10/23/09	Time 1730	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 10/24/09	Time 0945	Yes No N/A	

Special Instructions/Remarks: 51289261 1

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-1967

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/24/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** SD

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 2oz RJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** SD

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** YC

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** SD

Calscience Environmental Laboratories, Inc.

November 04, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-2004**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2004
Preparation:	EPA 3005A Filt. / EPA 7470A Filt.
Method:	EPA 6010B / EPA 7470A
Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-I**	**10/23/09 11:40**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:14**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 4:51:17 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

CPT11@35-40	**09-10-2004-2-G**	**10/23/09 12:40**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:15**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 4:53:33 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,392**	**N/A**	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09 16:25**	**091026L05F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,828**	**N/A**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 18:55**	**091026LA1F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-D**	**10/23/09 11:40**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 22:01**	**091026B13**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	270	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	104	68-140	

CPT11@35-40	**09-10-2004-2-D**	**10/23/09 12:40**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 22:16**	**091026B13**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	120	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	107	68-140	

Method Blank	**099-12-211-1,392**	**N/A**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 20:41**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-E**	**10/23/09 11:40**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 14:59**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	74	7-121		Phenol-d6	54	1-127	
Nitrobenzene-d5	92	50-146		2-Fluorobiphenyl	84	42-138	
2,4,6-Tribromophenol	90	41-137		p-Terphenyl-d14	87	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@35-40	**09-10-2004-2-F**	**10/23/09 12:40**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 15:29**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	49	7-121		Phenol-d6	32	1-127	
Nitrobenzene-d5	85	50-146		2-Fluorobiphenyl	78	42-138	
2,4,6-Tribromophenol	82	41-137		p-Terphenyl-d14	81	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,777**	**N/A**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 12:30**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	51	7-121		Phenol-d6	43	1-127	
Nitrobenzene-d5	83	50-146		2-Fluorobiphenyl	77	42-138	
2,4,6-Tribromophenol	65	41-137		p-Terphenyl-d14	80	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-H**	**10/23/09 11:40**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 17:18**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	90	33-144		Nitrobenzene-d5	98	28-139	
p-Terphenyl-d14	70	23-160					

CPT11@35-40	**09-10-2004-2-E**	**10/23/09 12:40**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 17:40**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	88	33-144		Nitrobenzene-d5	96	28-139	
p-Terphenyl-d14	66	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-008-230**	**N/A**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 11:34**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	91	33-144		Nitrobenzene-d5	101	28-139	
p-Terphenyl-d14	71	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-F**	**10/23/09 11:40**	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09 14:45**	**091026L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	86	50-135			2,4,5,6-Tetrachloro-m-Xylene	83	50-135		

Method Blank	**099-12-529-309**	**N/A**	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09 13:24**	**091026L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	86	50-135			2,4,5,6-Tetrachloro-m-Xylene	83	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8141B
		Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-G**	**10/23/09 11:40**	**Aqueous**	**GC 26**	**10/26/09**	**10/30/09 01:24**	**091026L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	117	30-130	

Method Blank	**099-12-957-27**	**N/A**	**Aqueous**	**GC 26**	**10/26/09**	**10/30/09 00:35**	**091026L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	92	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1-B**	**10/23/09 11:40**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 14:17**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@13-18	**09-10-2004-1**		**Aqueous**		**10/27/09**	**10/27/09 14:17**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	124	80-128		Dibromofluoromethane	113	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@35-40	**09-10-2004-2-B**	**10/23/09 12:40**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 19:23**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	11	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT11@35-40	**09-10-2004-2**		**Aqueous**		**10/27/09**	**10/27/09 19:23**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	117	80-128		Dibromofluoromethane	108	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	95	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,276**	**N/A**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 13:22**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2004
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,276**	**N/A**	**Aqueous**		**10/27/09**	**10/27/09 13:22**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	97	80-128		Dibromofluoromethane	92	80-127	
Toluene-d8	106	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2004
Preparation:	EPA 3005A Filt.
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2005-1	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09**	**091026SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	101	102	72-132	1	0-10	
Arsenic	104	106	80-140	2	0-11	
Beryllium	100	101	89-119	1	0-8	
Cadmium	97	100	82-124	2	0-7	
Chromium	94	96	86-122	2	0-8	
Copper	103	105	78-126	2	0-7	
Lead	97	98	84-120	2	0-7	
Nickel	98	98	84-120	1	0-7	
Selenium	100	100	79-127	0	0-9	
Silver	112	113	86-128	1	0-7	
Thallium	95	97	79-121	2	0-8	
Zinc	103	109	89-131	5	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2004
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2005-2	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09**	**091026S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	105	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2004
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT11@13-18	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09**	**091027S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	108	76-124	1	0-20	
Carbon Tetrachloride	99	98	74-134	1	0-20	
Chlorobenzene	100	101	80-120	1	0-20	
1,2-Dibromoethane	112	108	80-120	4	0-20	
1,2-Dichlorobenzene	96	99	80-120	4	0-20	
1,1-Dichloroethene	139	116	73-127	18	0-20	3
Ethylbenzene	98	100	78-126	2	0-20	
Toluene	95	98	80-120	3	0-20	
Trichloroethene	104	105	77-120	1	0-20	
Vinyl Chloride	111	104	72-126	6	0-20	
Methyl-t-Butyl Ether (MTBE)	108	106	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	64	75	36-162	15	0-30	
Diisopropyl Ether (DIPE)	103	111	60-138	8	0-45	
Ethyl-t-Butyl Ether (ETBE)	97	98	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	89	86	65-120	4	0-20	
Ethanol	88	105	30-180	18	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2004
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,828	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09**	**091026LA1F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	98	95	80-120	73-127	3	0-20	
Arsenic	97	96	80-120	73-127	2	0-20	
Beryllium	96	96	80-120	73-127	1	0-20	
Cadmium	102	99	80-120	73-127	2	0-20	
Chromium	98	97	80-120	73-127	2	0-20	
Copper	102	100	80-120	73-127	2	0-20	
Lead	106	102	80-120	73-127	3	0-20	
Nickel	104	102	80-120	73-127	2	0-20	
Selenium	93	91	80-120	73-127	3	0-20	
Silver	109	108	80-120	73-127	1	0-20	
Thallium	100	98	80-120	73-127	2	0-20	
Zinc	110	106	80-120	73-127	4	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2004
Preparation:	EPA 3510C
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,392	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09**	**091026B13**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	116	117	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2004
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,392	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09**	**091026L05F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	105	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2004
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,777	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09**	**091026L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	35	36	4-142	0-165	1	0-24	
2-Chlorophenol	74	75	53-113	43-123	1	0-17	
1,4-Dichlorobenzene	63	64	50-122	38-134	2	0-19	
N-Nitroso-di-n-propylamine	80	82	56-146	41-161	2	0-22	
Naphthalene	69	69	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	68	69	55-121	44-132	2	0-18	
Dimethyl Phthalate	81	81	0-112	0-131	0	0-20	
Acenaphthylene	71	71	33-145	14-164	1	0-20	
Acenaphthene	79	79	55-139	41-153	0	0-17	
4-Nitrophenol	34	35	1-145	0-169	2	0-29	
2,4-Dinitrotoluene	88	89	41-161	21-181	2	0-22	
Fluorene	78	78	59-121	49-131	0	0-20	
Pentachlorophenol	75	77	34-130	18-146	2	0-23	
Pyrene	92	93	38-170	16-192	1	0-27	
Butyl Benzyl Phthalate	87	87	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	68	69	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2004
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-230	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09**	**091027L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	94	93	21-133	2-152	0	0-25	
2-Methylnaphthalene	94	93	21-140	1-160	0	0-25	
1-Methylnaphthalene	92	91	20-140	0-160	0	0-25	
Acenaphthylene	81	80	33-145	14-164	1	0-25	
Acenaphthene	89	90	55-121	44-132	0	0-25	
Fluorene	93	93	59-121	49-131	0	0-25	
Phenanthrene	86	86	54-120	43-131	0	0-25	
Anthracene	48	47	27-133	9-151	1	0-25	
Fluoranthene	66	67	26-137	8-156	1	0-25	
Pyrene	77	77	45-129	31-143	0	0-25	
Benzo (a) Anthracene	83	94	33-143	15-161	13	0-25	
Chrysene	79	80	17-168	0-193	1	0-25	
Benzo (k) Fluoranthene	101	101	24-159	2-182	0	0-25	
Benzo (b) Fluoranthene	88	86	24-159	2-182	3	0-25	
Benzo (a) Pyrene	66	67	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	107	107	0-171	0-200	0	0-25	
Dibenz (a,h) Anthracene	81	80	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	103	103	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2004
Preparation: EPA 3510C
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-309	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09**	**091026L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	98	98	50-135	36-149	0	0-25	
Gamma-BHC	99	98	50-135	36-149	0	0-25	
Beta-BHC	98	97	50-135	36-149	1	0-25	
Heptachlor	107	105	50-135	36-149	2	0-25	
Delta-BHC	94	92	50-135	36-149	1	0-25	
Aldrin	105	102	50-135	36-149	3	0-25	
Heptachlor Epoxide	98	97	50-135	36-149	1	0-25	
Endosulfan I	96	96	50-135	36-149	1	0-25	
Dieldrin	93	91	50-135	36-149	2	0-25	
4,4'-DDE	113	108	50-135	36-149	4	0-25	
Endrin	113	112	50-135	36-149	1	0-25	
Endrin Aldehyde	98	98	50-135	36-149	0	0-25	
4,4'-DDD	106	104	50-135	36-149	2	0-25	
Endosulfan II	98	97	50-135	36-149	1	0-25	
4,4'-DDT	113	110	50-135	36-149	3	0-25	
Endosulfan Sulfate	92	92	50-135	36-149	1	0-25	
Methoxychlor	111	110	50-135	36-149	1	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2004
Preparation: EPA 3510C
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-957-27	**Aqueous**	**GC 26**	**10/26/09**	**10/29/09**	**091026L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	93	91	30-130	13-147	2	0-30	
Bolstar	79	78	30-130	13-147	1	0-30	
Chlorpyrifos	80	81	30-130	13-147	1	0-30	
Coumaphos	87	87	30-130	13-147	1	0-30	
Diazinon	72	72	30-130	13-147	1	0-30	
Disulfoton	84	85	30-130	13-147	1	0-30	
Ethoprop	90	90	30-130	13-147	0	0-30	
Fensulfothion	76	77	30-130	13-147	1	0-30	
Fenthion	85	85	30-130	13-147	1	0-30	
Merphos	70	71	30-130	13-147	1	0-30	
Methyl Parathion	85	86	30-130	13-147	1	0-30	
Phorate	116	117	30-130	13-147	1	0-30	
Ronnel	79	79	30-130	13-147	0	0-30	
Stirophos	86	86	30-130	13-147	0	0-30	
Tokuthion	80	80	30-130	13-147	1	0-30	
Trichloronate	85	85	30-130	13-147	0	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2004
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,276	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09**	**091027L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	102	80-120	73-127	0	0-20	
Carbon Tetrachloride	81	85	74-134	64-144	5	0-20	
Chlorobenzene	102	101	80-120	73-127	1	0-20	
1,2-Dibromoethane	97	100	79-121	72-128	3	0-20	
1,2-Dichlorobenzene	100	100	80-120	73-127	0	0-20	
1,1-Dichloroethene	97	101	78-126	70-134	4	0-28	
Ethylbenzene	104	99	80-120	73-127	5	0-20	
Toluene	106	102	80-120	73-127	4	0-20	
Trichloroethene	98	99	79-127	71-135	1	0-20	
Vinyl Chloride	94	94	72-132	62-142	0	0-20	
Methyl-t-Butyl Ether (MTBE)	79	88	69-123	60-132	10	0-20	
Tert-Butyl Alcohol (TBA)	82	78	63-123	53-133	5	0-20	
Diisopropyl Ether (DIPE)	90	96	59-137	46-150	5	0-37	
Ethyl-t-Butyl Ether (ETBE)	85	92	69-123	60-132	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	87	94	70-120	62-128	7	0-20	
Ethanol	93	88	28-160	6-182	6	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-2004

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. 09-10-2004 **CHAIN-OF-CUSTODY RECORD** Page 1 of 1

Project Number/Name RC000746.0002.00005

Project Location PG&E - Radback

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D	VOCs w/ MTBE, oxygenates	SVOCs w/	PAHs	priority pollutant metals *	organochlorine pest.	organophosphorous pest.	organic lead	Remarks	Total
1	CPT11@13-18	L	10/22/09 1140	1	X	X	X	X	X	X	X		LAB FILTER	9
2	CPT11@35-40	L	10/23/09 1240	2	X	X	X	X	X				FOR METALS	7

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by:		Organization: ARCADIS	Date 10/23/09	Time 13:57	Seal Intact?	
Received by: To O'Malley		Organization: CALScience	Date 10/23/09	Time 1357	Yes No N/A	
Relinquished by: To GSO		Organization: CEL	Date 10/23/09	Time 1730	Seal Intact?	
Received by: CEL		Organization: CEL	Date 10/24/09	Time 0945	Yes No N/A	

Special Instructions/Remarks: 5128926 11

* lab filter needed.

Delivery Method: ☐ In Person ☐ Common Carrier GSO (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-0004

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/24/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** [illegible]

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑4AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☑1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** SD

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** WSC

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** [illegible]

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2004

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s)/preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☑ **Sample ID**
  - ☑ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Containers**
  - ☐ **Analysis**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Air sample containers compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-1) one of 9 containers (500AGJ) labeled as GPT 11 @ 13-18 10-21-09 @ 11:40

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date SO / 10-24-09

Calscience Environmental Laboratories, Inc.

November 05, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-2005**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

CASE NARRATIVE

Calscience Work Order No.: 09-10-2005

Two trip blank VOA vials were received without identification. Following the IDs listed on the COC, the sample vial with a blue cap was labeled as TB2-20091023 and the sample with a red cap was labeled as TB1-20091023.

Acetone was detected in TB2-20091023, but a source blank could not be analyzed since the samples were not Calscience Trip Blanks.

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/24/09
Work Order No: 09-10-2005
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-D**	**10/23/09 11:10**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:01**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 4:42:18 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

CPT-6@37	**09-10-2005-2-D**	**10/23/09 11:45**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:04**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 4:44:32 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0159	0.0100	1	
Lead	ND	0.0100	1						

CPT-6@67	**09-10-2005-3-D**	**10/23/09 12:15**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:06**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 4:46:46 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	0.0434	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	EPA 3005A Filt. / EPA 7470A Filt.
Method:	EPA 6010B / EPA 7470A
Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1-20091023	**09-10-2005-4-D**	**10/23/09 11:40**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:07**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 4:49:01 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0102	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,392**	**N/A**	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09 16:25**	**091026L05F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,828**	**N/A**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 18:55**	**091026LA1F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-E**	**10/23/09 11:10**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 22:32**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	116	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@37	**09-10-2005-2-E**	**10/23/09 11:45**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 22:48**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@67	**09-10-2005-3-E**	**10/23/09 12:15**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 23:03**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1-20091023	**09-10-2005-4-E**	**10/23/09 11:40**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 23:18**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-211-1,392**	**N/A**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 20:41**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-A**	**10/23/09 11:10**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 00:00**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	**099-10-019-429**	**N/A**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-G**	**10/23/09 11:10**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 15:59**	**091026L08**

Comment(s): -The sample volume received was less than required resulting in an elevated reporting limit.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	11	1.11		2,4,5-Trichlorophenol	ND	11	1.11	
Aniline	ND	11	1.11		2-Nitroaniline	ND	11	1.11	
Phenol	ND	11	1.11		Dimethyl Phthalate	ND	11	1.11	
Bis(2-Chloroethyl) Ether	ND	28	1.11		3-Nitroaniline	ND	11	1.11	
2-Chlorophenol	ND	11	1.11		2,4-Dinitrophenol	ND	56	1.11	
1,3-Dichlorobenzene	ND	11	1.11		4-Nitrophenol	ND	11	1.11	
1,4-Dichlorobenzene	ND	11	1.11		Dibenzofuran	ND	11	1.11	
Benzyl Alcohol	ND	11	1.11		2,4-Dinitrotoluene	ND	11	1.11	
1,2-Dichlorobenzene	ND	11	1.11		2,6-Dinitrotoluene	ND	11	1.11	
2-Methylphenol	ND	11	1.11		Diethyl Phthalate	ND	11	1.11	
Bis(2-Chloroisopropyl) Ether	ND	11	1.11		4-Chlorophenyl-Phenyl Ether	ND	11	1.11	
3/4-Methylphenol	ND	11	1.11		4-Nitroaniline	ND	11	1.11	
N-Nitroso-di-n-propylamine	ND	11	1.11		Azobenzene	ND	11	1.11	
Hexachloroethane	ND	11	1.11		4,6-Dinitro-2-Methylphenol	ND	56	1.11	
Nitrobenzene	ND	28	1.11		N-Nitrosodiphenylamine	ND	11	1.11	
Isophorone	ND	11	1.11		4-Bromophenyl-Phenyl Ether	ND	11	1.11	
2-Nitrophenol	ND	11	1.11		Hexachlorobenzene	ND	11	1.11	
2,4-Dimethylphenol	ND	11	1.11		Pentachlorophenol	ND	11	1.11	
Benzoic Acid	ND	56	1.11		Di-n-Butyl Phthalate	ND	11	1.11	
Bis(2-Chloroethoxy) Methane	ND	11	1.11		Benzidine	ND	56	1.11	
2,4-Dichlorophenol	ND	11	1.11		Pyridine	ND	11	1.11	
4-Chloroaniline	ND	11	1.11		Butyl Benzyl Phthalate	ND	11	1.11	
Hexachloro-1,3-Butadiene	ND	11	1.11		3,3'-Dichlorobenzidine	ND	28	1.11	
4-Chloro-3-Methylphenol	ND	11	1.11		Bis(2-Ethylhexyl) Phthalate	ND	11	1.11	
Hexachlorocyclopentadiene	ND	28	1.11		Di-n-Octyl Phthalate	ND	11	1.11	
2,4,6-Trichlorophenol	ND	11	1.11		1,2,4-Trichlorobenzene	ND	11	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	74	7-121		Phenol-d6	56	1-127	
Nitrobenzene-d5	86	50-146		2-Fluorobiphenyl	77	42-138	
2,4,6-Tribromophenol	82	41-137		p-Terphenyl-d14	80	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@37	**09-10-2005-2-G**	**10/23/09 11:45**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 16:29**	**091026L08**

Comment(s): -The sample volume received was less than required resulting in an elevated reporting limit.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	11	1.11		2,4,5-Trichlorophenol	ND	11	1.11	
Aniline	ND	11	1.11		2-Nitroaniline	ND	11	1.11	
Phenol	ND	11	1.11		Dimethyl Phthalate	ND	11	1.11	
Bis(2-Chloroethyl) Ether	ND	28	1.11		3-Nitroaniline	ND	11	1.11	
2-Chlorophenol	ND	11	1.11		2,4-Dinitrophenol	ND	56	1.11	
1,3-Dichlorobenzene	ND	11	1.11		4-Nitrophenol	ND	11	1.11	
1,4-Dichlorobenzene	ND	11	1.11		Dibenzofuran	ND	11	1.11	
Benzyl Alcohol	ND	11	1.11		2,4-Dinitrotoluene	ND	11	1.11	
1,2-Dichlorobenzene	ND	11	1.11		2,6-Dinitrotoluene	ND	11	1.11	
2-Methylphenol	ND	11	1.11		Diethyl Phthalate	ND	11	1.11	
Bis(2-Chloroisopropyl) Ether	ND	11	1.11		4-Chlorophenyl-Phenyl Ether	ND	11	1.11	
3/4-Methylphenol	ND	11	1.11		4-Nitroaniline	ND	11	1.11	
N-Nitroso-di-n-propylamine	ND	11	1.11		Azobenzene	ND	11	1.11	
Hexachloroethane	ND	11	1.11		4,6-Dinitro-2-Methylphenol	ND	56	1.11	
Nitrobenzene	ND	28	1.11		N-Nitrosodiphenylamine	ND	11	1.11	
Isophorone	ND	11	1.11		4-Bromophenyl-Phenyl Ether	ND	11	1.11	
2-Nitrophenol	ND	11	1.11		Hexachlorobenzene	ND	11	1.11	
2,4-Dimethylphenol	ND	11	1.11		Pentachlorophenol	ND	11	1.11	
Benzoic Acid	ND	56	1.11		Di-n-Butyl Phthalate	ND	11	1.11	
Bis(2-Chloroethoxy) Methane	ND	11	1.11		Benzidine	ND	56	1.11	
2,4-Dichlorophenol	ND	11	1.11		Pyridine	ND	11	1.11	
4-Chloroaniline	ND	11	1.11		Butyl Benzyl Phthalate	ND	11	1.11	
Hexachloro-1,3-Butadiene	ND	11	1.11		3,3'-Dichlorobenzidine	ND	28	1.11	
4-Chloro-3-Methylphenol	ND	11	1.11		Bis(2-Ethylhexyl) Phthalate	ND	11	1.11	
Hexachlorocyclopentadiene	ND	28	1.11		Di-n-Octyl Phthalate	ND	11	1.11	
2,4,6-Trichlorophenol	ND	11	1.11		1,2,4-Trichlorobenzene	ND	11	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	65	7-121		Phenol-d6	49	1-127	
Nitrobenzene-d5	78	50-146		2-Fluorobiphenyl	71	42-138	
2,4,6-Tribromophenol	73	41-137		p-Terphenyl-d14	74	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@67	**09-10-2005-3-F**	**10/23/09 12:15**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 17:00**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	7-121		Phenol-d6	58	1-127	
Nitrobenzene-d5	93	50-146		2-Fluorobiphenyl	84	42-138	
2,4,6-Tribromophenol	91	41-137		p-Terphenyl-d14	89	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1-20091023	**09-10-2005-4-G**	**10/23/09 11:40**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 17:30**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	70	7-121		Phenol-d6	52	1-127	
Nitrobenzene-d5	86	50-146		2-Fluorobiphenyl	77	42-138	
2,4,6-Tribromophenol	83	41-137		p-Terphenyl-d14	85	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,777**	**N/A**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 12:30**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	51	7-121		Phenol-d6	43	1-127	
Nitrobenzene-d5	83	50-146		2-Fluorobiphenyl	77	42-138	
2,4,6-Tribromophenol	65	41-137		p-Terphenyl-d14	80	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-I**	**10/23/09 11:10**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 18:02**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	87	33-144		Nitrobenzene-d5	95	28-139	
p-Terphenyl-d14	69	23-160					

CPT-6@37	**09-10-2005-2-F**	**10/23/09 11:45**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 18:25**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	92	33-144		Nitrobenzene-d5	98	28-139	
p-Terphenyl-d14	73	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	EPA 3510C
Method:	EPA 8270C SIM PAHs
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@67	**09-10-2005-3-G**	**10/23/09 12:15**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 18:47**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	87	33-144		Nitrobenzene-d5	92	28-139	
p-Terphenyl-d14	68	23-160					

DUP-1-20091023	**09-10-2005-4-F**	**10/23/09 11:40**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 19:09**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	98	33-144		Nitrobenzene-d5	104	28-139	
p-Terphenyl-d14	74	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-008-230**	**N/A**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 11:34**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	91	33-144		Nitrobenzene-d5	101	28-139	
p-Terphenyl-d14	71	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-H**	**10/23/09 11:10**	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09 15:12**	**091026L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	84	50-135			2,4,5,6-Tetrachloro-m-Xylene	84	50-135		

Method Blank	**099-12-529-309**	**N/A**	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09 13:24**	**091026L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	86	50-135			2,4,5,6-Tetrachloro-m-Xylene	83	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8141B
		Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-J**	**10/23/09 11:10**	**Aqueous**	**GC 26**	**10/26/09**	**10/30/09 02:14**	**091026L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	109	30-130	

Method Blank	**099-12-957-27**	**N/A**	**Aqueous**	**GC 26**	**10/26/09**	**10/30/09 00:35**	**091026L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	92	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1-A**	**10/23/09 11:10**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 18:42**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	0.86	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@14	**09-10-2005-1**		**Aqueous**		**10/26/09**	**10/26/09 18:42**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	119	80-128		Dibromofluoromethane	109	80-127	
Toluene-d8	95	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@37	**09-10-2005-2-A**	**10/23/09 11:45**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 20:06**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	1.1	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	1.6	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@37	**09-10-2005-2**		**Aqueous**		**10/26/09**	**10/26/09 20:06**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	80-128		Dibromofluoromethane	104	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	94	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@67	**09-10-2005-3-A**	**10/23/09 12:15**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 20:33**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	11	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-6@67	**09-10-2005-3**		**Aqueous**		**10/26/09**	**10/26/09 20:33**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	90	80-128		Dibromofluoromethane	92	80-127	
Toluene-d8	105	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1-20091023	**09-10-2005-4-A**	**10/23/09 11:40**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 21:01**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	14	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	1.1	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	1.7	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DUP-1-20091023	**09-10-2005-4**		**Aqueous**		**10/26/09**	**10/26/09 21:01**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	98	80-128		Dibromofluoromethane	99	80-127	
Toluene-d8	98	80-120		1,4-Bromofluorobenzene	95	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB2-20091023	**09-10-2005-5-A**	**10/23/09 00:02**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 19:38**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	13	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB2-20091023	**09-10-2005-5**		**Aqueous**		**10/26/09**	**10/26/09 19:38**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	94	80-128		Dibromofluoromethane	96	80-127	
Toluene-d8	106	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB1-20091023	**09-10-2005-6-A**	**10/23/09 00:01**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 19:10**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB1-20091023	**09-10-2005-6**		**Aqueous**		**10/26/09**	**10/26/09 19:10**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	94	80-128		Dibromofluoromethane	96	80-127	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	98	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,275**	**N/A**	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09 14:44**	**091026L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,275**	**N/A**	**Aqueous**		**10/26/09**	**10/26/09 14:44**	**091026L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	88	80-128		Dibromofluoromethane	86	80-127	
Toluene-d8	115	80-120		1,4-Bromofluorobenzene	105	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	EPA 3005A Filt.
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT-6@14	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09**	**091026SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	101	102	72-132	1	0-10	
Arsenic	104	106	80-140	2	0-11	
Beryllium	100	101	89-119	1	0-8	
Cadmium	97	100	82-124	2	0-7	
Chromium	94	96	86-122	2	0-8	
Copper	103	105	78-126	2	0-7	
Lead	97	98	84-120	2	0-7	
Nickel	98	98	84-120	1	0-7	
Selenium	100	100	79-127	0	0-9	
Silver	112	113	86-128	1	0-7	
Thallium	95	97	79-121	2	0-8	
Zinc	103	109	89-131	5	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2006-1	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	79	83	25-121	5	0-11	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT-6@37	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09**	**091026S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	105	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2005
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1895-1	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09**	**091026S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	102	76-124	3	0-20	
Carbon Tetrachloride	108	104	74-134	3	0-20	
Chlorobenzene	99	97	80-120	1	0-20	
1,2-Dibromoethane	115	116	80-120	2	0-20	
1,2-Dichlorobenzene	99	102	80-120	3	0-20	
1,1-Dichloroethene	103	97	73-127	6	0-20	
Ethylbenzene	98	96	78-126	2	0-20	
Toluene	94	94	80-120	1	0-20	
Trichloroethene	103	100	77-120	3	0-20	
Vinyl Chloride	100	94	72-126	7	0-20	
Methyl-t-Butyl Ether (MTBE)	123	123	67-121	0	0-49	3
Tert-Butyl Alcohol (TBA)	78	86	36-162	11	0-30	
Diisopropyl Ether (DIPE)	111	111	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	110	111	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	103	106	65-120	3	0-20	
Ethanol	63	106	30-180	51	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2005
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,828	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09**	**091026LA1F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	98	95	80-120	73-127	3	0-20	
Arsenic	97	96	80-120	73-127	2	0-20	
Beryllium	96	96	80-120	73-127	1	0-20	
Cadmium	102	99	80-120	73-127	2	0-20	
Chromium	98	97	80-120	73-127	2	0-20	
Copper	102	100	80-120	73-127	2	0-20	
Lead	106	102	80-120	73-127	3	0-20	
Nickel	104	102	80-120	73-127	2	0-20	
Selenium	93	91	80-120	73-127	3	0-20	
Silver	109	108	80-120	73-127	1	0-20	
Thallium	100	98	80-120	73-127	2	0-20	
Zinc	110	106	80-120	73-127	4	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2005
Preparation:	EPA 3510C
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,392	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09**	**091026B13**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	116	117	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-2005
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-429	**Aqueous**	**FLAA2**	**10/29/09**	**NONE**	**091029L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	3.75	3.71	99	57-135	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2005
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,392	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09**	**091026L05F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	105	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2005
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,777	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09**	**091026L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	35	36	4-142	0-165	1	0-24	
2-Chlorophenol	74	75	53-113	43-123	1	0-17	
1,4-Dichlorobenzene	63	64	50-122	38-134	2	0-19	
N-Nitroso-di-n-propylamine	80	82	56-146	41-161	2	0-22	
Naphthalene	69	69	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	68	69	55-121	44-132	2	0-18	
Dimethyl Phthalate	81	81	0-112	0-131	0	0-20	
Acenaphthylene	71	71	33-145	14-164	1	0-20	
Acenaphthene	79	79	55-139	41-153	0	0-17	
4-Nitrophenol	34	35	1-145	0-169	2	0-29	
2,4-Dinitrotoluene	88	89	41-161	21-181	2	0-22	
Fluorene	78	78	59-121	49-131	0	0-20	
Pentachlorophenol	75	77	34-130	18-146	2	0-23	
Pyrene	92	93	38-170	16-192	1	0-27	
Butyl Benzyl Phthalate	87	87	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	68	69	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2005
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-230	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09**	**091027L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	94	93	21-133	2-152	0	0-25	
2-Methylnaphthalene	94	93	21-140	1-160	0	0-25	
1-Methylnaphthalene	92	91	20-140	0-160	0	0-25	
Acenaphthylene	81	80	33-145	14-164	1	0-25	
Acenaphthene	89	90	55-121	44-132	0	0-25	
Fluorene	93	93	59-121	49-131	0	0-25	
Phenanthrene	86	86	54-120	43-131	0	0-25	
Anthracene	48	47	27-133	9-151	1	0-25	
Fluoranthene	66	67	26-137	8-156	1	0-25	
Pyrene	77	77	45-129	31-143	0	0-25	
Benzo (a) Anthracene	83	94	33-143	15-161	13	0-25	
Chrysene	79	80	17-168	0-193	1	0-25	
Benzo (k) Fluoranthene	101	101	24-159	2-182	0	0-25	
Benzo (b) Fluoranthene	88	86	24-159	2-182	3	0-25	
Benzo (a) Pyrene	66	67	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	107	107	0-171	0-200	0	0-25	
Dibenz (a,h) Anthracene	81	80	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	103	103	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2005
Preparation: EPA 3510C
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-309	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09**	**091026L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	98	98	50-135	36-149	0	0-25	
Gamma-BHC	99	98	50-135	36-149	0	0-25	
Beta-BHC	98	97	50-135	36-149	1	0-25	
Heptachlor	107	105	50-135	36-149	2	0-25	
Delta-BHC	94	92	50-135	36-149	1	0-25	
Aldrin	105	102	50-135	36-149	3	0-25	
Heptachlor Epoxide	98	97	50-135	36-149	1	0-25	
Endosulfan I	96	96	50-135	36-149	1	0-25	
Dieldrin	93	91	50-135	36-149	2	0-25	
4,4'-DDE	113	108	50-135	36-149	4	0-25	
Endrin	113	112	50-135	36-149	1	0-25	
Endrin Aldehyde	98	98	50-135	36-149	0	0-25	
4,4'-DDD	106	104	50-135	36-149	2	0-25	
Endosulfan II	98	97	50-135	36-149	1	0-25	
4,4'-DDT	113	110	50-135	36-149	3	0-25	
Endosulfan Sulfate	92	92	50-135	36-149	1	0-25	
Methoxychlor	111	110	50-135	36-149	1	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2005
Preparation: EPA 3510C
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-957-27	**Aqueous**	**GC 26**	**10/26/09**	**10/29/09**	**091026L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	93	91	30-130	13-147	2	0-30	
Bolstar	79	78	30-130	13-147	1	0-30	
Chlorpyrifos	80	81	30-130	13-147	1	0-30	
Coumaphos	87	87	30-130	13-147	1	0-30	
Diazinon	72	72	30-130	13-147	1	0-30	
Disulfoton	84	85	30-130	13-147	1	0-30	
Ethoprop	90	90	30-130	13-147	0	0-30	
Fensulfothion	76	77	30-130	13-147	1	0-30	
Fenthion	85	85	30-130	13-147	1	0-30	
Merphos	70	71	30-130	13-147	1	0-30	
Methyl Parathion	85	86	30-130	13-147	1	0-30	
Phorate	116	117	30-130	13-147	1	0-30	
Ronnel	79	79	30-130	13-147	0	0-30	
Stirophos	86	86	30-130	13-147	0	0-30	
Tokuthion	80	80	30-130	13-147	1	0-30	
Trichloronate	85	85	30-130	13-147	0	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2005
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,275	**Aqueous**	**GC/MS L**	**10/26/09**	**10/26/09**	**091026L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	103	100	80-120	73-127	4	0-20	
Carbon Tetrachloride	103	95	74-134	64-144	8	0-20	
Chlorobenzene	101	99	80-120	73-127	2	0-20	
1,2-Dibromoethane	106	99	79-121	72-128	6	0-20	
1,2-Dichlorobenzene	103	101	80-120	73-127	2	0-20	
1,1-Dichloroethene	95	87	78-126	70-134	9	0-28	
Ethylbenzene	101	99	80-120	73-127	1	0-20	
Toluene	101	102	80-120	73-127	1	0-20	
Trichloroethene	101	96	79-127	71-135	5	0-20	
Vinyl Chloride	91	91	72-132	62-142	0	0-20	
Methyl-t-Butyl Ether (MTBE)	105	106	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	80	65	63-123	53-133	21	0-20	X
Diisopropyl Ether (DIPE)	95	100	59-137	46-150	5	0-37	
Ethyl-t-Butyl Ether (ETBE)	100	99	69-123	60-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	106	101	70-120	62-128	4	0-20	
Ethanol	85	40	28-160	6-182	72	0-57	X

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-2005

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. 09-10-2005

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00005

Project Location PG&E Radback

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation CM/ARCADIS

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D	VOCs w/ MTBE, oxygenates	SVOCs	PAHs	Priority pollutant metals	organochlorine pest.	organophosphorous pest.	organic lead	Remarks	Total
1	CPT-6614	L	10/23/09 11:10	1	✓	✓	✓	✓	✓	✓	✓	✓	METALS	10
2	CPT-6637		10/23/09 11:45	2	✓	✓	✓	✓	✓				FIELD FILTERED	7
3	CPT-6667		10/23/09 12:15	3	✓	✓	✓	✓	✓					7
~~4~~	~~CPT-66~~		~~10/23/09~~		✓	✓	✓	✓	✓					7
4	DUP-1-20091023		10/23/09 11:40	4	✓	✓	✓	✓	✓					7
5	TB2-20091023		10/23/09 00:02			✓								1
6	TB1-20091023		10/23/09 00:04			✓								1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: [signature]	Organization: ARCADIS	Date 10/23/09	Time 13:57	Seal Intact?	
Received by: To Donally	Organization: CALScience	Date 10/23/09	Time 1357	Yes No N/A	
Relinquished by: [signature] To CSD	Organization: CEL	Date 10/23/09	Time 1730	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 10/24/09	Time 0945	Yes No N/A	

Special Instructions/Remarks: 5128926 11

Delivery Method: ☐ In Person ☐ Common Carrier G/S O (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2005

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/24/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3 VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑4 1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑2 500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☑1 250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** SO

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** WSC.

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** SO

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2005

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s)/preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☑ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Containers**
  - ☐ **Analysis**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Air sample containers compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-5) + (-6) received 1 vial each per sample without ID.
blue cap vial labeled as (-5)
black " (-6)

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date W.S.C 10-24-09

Calscience Environmental Laboratories, Inc.

November 04, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-2006**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/24/09
Work Order No: 09-10-2006
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-D**	**10/22/09 14:37**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:08**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 5:03:59 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	0.0145	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

CPT-3@26	**09-10-2006-2-D**	**10/22/09 16:00**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 19:10**	**091026LA1F**

Comment(s): -Mercury was analyzed on 10/26/2009 5:06:16 PM with batch 091026L05F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0104	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,392**	**N/A**	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09 16:25**	**091026L05F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,828**	**N/A**	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09 18:55**	**091026LA1F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-E**	**10/22/09 14:37**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 23:34**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	68-140	

CPT-3@26	**09-10-2006-2-E**	**10/22/09 16:00**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 23:49**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

Method Blank	**099-12-211-1,392**	**N/A**	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09 20:41**	**091026B13**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2006
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-H**	**10/22/09 14:37**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	**099-10-019-429**	**N/A**	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09 16:34**	**091029L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-J**	**10/22/09 14:37**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/30/09 14:05**	**091026L08**

Comment(s): -The sample volume received was less than required resulting in an elevated reporting limit.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	11	1.11		2,4,5-Trichlorophenol	ND	11	1.11	
Aniline	ND	11	1.11		2-Nitroaniline	ND	11	1.11	
Phenol	ND	11	1.11		Dimethyl Phthalate	ND	11	1.11	
Bis(2-Chloroethyl) Ether	ND	28	1.11		3-Nitroaniline	ND	11	1.11	
2-Chlorophenol	ND	11	1.11		2,4-Dinitrophenol	ND	56	1.11	
1,3-Dichlorobenzene	ND	11	1.11		4-Nitrophenol	ND	11	1.11	
1,4-Dichlorobenzene	ND	11	1.11		Dibenzofuran	ND	11	1.11	
Benzyl Alcohol	ND	11	1.11		2,4-Dinitrotoluene	ND	11	1.11	
1,2-Dichlorobenzene	ND	11	1.11		2,6-Dinitrotoluene	ND	11	1.11	
2-Methylphenol	ND	11	1.11		Diethyl Phthalate	ND	11	1.11	
Bis(2-Chloroisopropyl) Ether	ND	11	1.11		4-Chlorophenyl-Phenyl Ether	ND	11	1.11	
3/4-Methylphenol	ND	11	1.11		4-Nitroaniline	ND	11	1.11	
N-Nitroso-di-n-propylamine	ND	11	1.11		Azobenzene	ND	11	1.11	
Hexachloroethane	ND	11	1.11		4,6-Dinitro-2-Methylphenol	ND	56	1.11	
Nitrobenzene	ND	28	1.11		N-Nitrosodiphenylamine	ND	11	1.11	
Isophorone	ND	11	1.11		4-Bromophenyl-Phenyl Ether	ND	11	1.11	
2-Nitrophenol	ND	11	1.11		Hexachlorobenzene	ND	11	1.11	
2,4-Dimethylphenol	ND	11	1.11		Pentachlorophenol	ND	11	1.11	
Benzoic Acid	ND	56	1.11		Di-n-Butyl Phthalate	ND	11	1.11	
Bis(2-Chloroethoxy) Methane	ND	11	1.11		Benzidine	ND	56	1.11	
2,4-Dichlorophenol	ND	11	1.11		Pyridine	ND	11	1.11	
4-Chloroaniline	ND	11	1.11		Butyl Benzyl Phthalate	ND	11	1.11	
Hexachloro-1,3-Butadiene	ND	11	1.11		3,3'-Dichlorobenzidine	ND	28	1.11	
4-Chloro-3-Methylphenol	ND	11	1.11		Bis(2-Ethylhexyl) Phthalate	ND	11	1.11	
Hexachlorocyclopentadiene	ND	28	1.11		Di-n-Octyl Phthalate	ND	11	1.11	
2,4,6-Trichlorophenol	ND	11	1.11		1,2,4-Trichlorobenzene	ND	11	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	7-121		Phenol-d6	60	1-127	
Nitrobenzene-d5	92	50-146		2-Fluorobiphenyl	82	42-138	
2,4,6-Tribromophenol	90	41-137		p-Terphenyl-d14	101	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@26	**09-10-2006-2-H**	**10/22/09 16:00**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/30/09 14:35**	**091026L08**

Comment(s): -The sample volume received was less than required resulting in an elevated reporting limit.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	11	1.11		2,4,5-Trichlorophenol	ND	11	1.11	
Aniline	ND	11	1.11		2-Nitroaniline	ND	11	1.11	
Phenol	ND	11	1.11		Dimethyl Phthalate	ND	11	1.11	
Bis(2-Chloroethyl) Ether	ND	28	1.11		3-Nitroaniline	ND	11	1.11	
2-Chlorophenol	ND	11	1.11		2,4-Dinitrophenol	ND	56	1.11	
1,3-Dichlorobenzene	ND	11	1.11		4-Nitrophenol	ND	11	1.11	
1,4-Dichlorobenzene	ND	11	1.11		Dibenzofuran	ND	11	1.11	
Benzyl Alcohol	ND	11	1.11		2,4-Dinitrotoluene	ND	11	1.11	
1,2-Dichlorobenzene	ND	11	1.11		2,6-Dinitrotoluene	ND	11	1.11	
2-Methylphenol	ND	11	1.11		Diethyl Phthalate	ND	11	1.11	
Bis(2-Chloroisopropyl) Ether	ND	11	1.11		4-Chlorophenyl-Phenyl Ether	ND	11	1.11	
3/4-Methylphenol	ND	11	1.11		4-Nitroaniline	ND	11	1.11	
N-Nitroso-di-n-propylamine	ND	11	1.11		Azobenzene	ND	11	1.11	
Hexachloroethane	ND	11	1.11		4,6-Dinitro-2-Methylphenol	ND	56	1.11	
Nitrobenzene	ND	28	1.11		N-Nitrosodiphenylamine	ND	11	1.11	
Isophorone	ND	11	1.11		4-Bromophenyl-Phenyl Ether	ND	11	1.11	
2-Nitrophenol	ND	11	1.11		Hexachlorobenzene	ND	11	1.11	
2,4-Dimethylphenol	ND	11	1.11		Pentachlorophenol	ND	11	1.11	
Benzoic Acid	ND	56	1.11		Di-n-Butyl Phthalate	ND	11	1.11	
Bis(2-Chloroethoxy) Methane	ND	11	1.11		Benzidine	ND	56	1.11	
2,4-Dichlorophenol	ND	11	1.11		Pyridine	ND	11	1.11	
4-Chloroaniline	ND	11	1.11		Butyl Benzyl Phthalate	ND	11	1.11	
Hexachloro-1,3-Butadiene	ND	11	1.11		3,3'-Dichlorobenzidine	ND	28	1.11	
4-Chloro-3-Methylphenol	ND	11	1.11		Bis(2-Ethylhexyl) Phthalate	ND	11	1.11	
Hexachlorocyclopentadiene	ND	28	1.11		Di-n-Octyl Phthalate	ND	11	1.11	
2,4,6-Trichlorophenol	ND	11	1.11		1,2,4-Trichlorobenzene	ND	11	1.11	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	70	7-121		Phenol-d6	52	1-127	
Nitrobenzene-d5	82	50-146		2-Fluorobiphenyl	74	42-138	
2,4,6-Tribromophenol	76	41-137		p-Terphenyl-d14	89	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,777**	**N/A**	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09 12:30**	**091026L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	51	7-121		Phenol-d6	43	1-127	
Nitrobenzene-d5	83	50-146		2-Fluorobiphenyl	77	42-138	
2,4,6-Tribromophenol	65	41-137		p-Terphenyl-d14	80	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-FG**	**10/22/09 14:37**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 19:32**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	94	33-144		Nitrobenzene-d5	99	28-139	
p-Terphenyl-d14	74	23-160					

CPT-3@26	**09-10-2006-2-FG**	**10/22/09 16:00**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 19:54**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	93	33-144		Nitrobenzene-d5	97	28-139	
p-Terphenyl-d14	73	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-008-230**	**N/A**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 11:34**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	91	33-144		Nitrobenzene-d5	101	28-139	
p-Terphenyl-d14	71	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-I**	**10/22/09 14:37**	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09 15:40**	**091026L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	50-135		2,4,5,6-Tetrachloro-m-Xylene	84	50-135	

Method Blank	**099-12-529-309**	**N/A**	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09 13:24**	**091026L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	50-135		2,4,5,6-Tetrachloro-m-Xylene	83	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8141B
		Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-K**	**10/22/09 14:37**	**Aqueous**	**GC 26**	**10/26/09**	**10/30/09 03:03**	**091026L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	111	30-130	

Method Blank	099-12-957-27	N/A	Aqueous	GC 26	10/26/09	10/30/09 00:35	091026L10

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	92	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1-B**	**10/22/09 14:37**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 16:36**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	4.5	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	7.3	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.87	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@14	**09-10-2006-1**		**Aqueous**		**10/27/09**	**10/27/09 16:36**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	121	80-128		Dibromofluoromethane	113	80-127	
Toluene-d8	96	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@26	**09-10-2006-2-B**	**10/22/09 16:00**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 17:04**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	5.0	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	5.7	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.4	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT-3@26	**09-10-2006-2**		**Aqueous**		**10/27/09**	**10/27/09 17:04**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	122	80-128		Dibromofluoromethane	113	80-127	
Toluene-d8	96	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,276**	**N/A**	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09 13:22**	**091027L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/24/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,276**	**N/A**	**Aqueous**		**10/27/09**	**10/27/09 13:22**	**091027L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	97	80-128		Dibromofluoromethane	92	80-127	
Toluene-d8	106	80-120		1,4-Bromofluorobenzene	97	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2006
Preparation:	EPA 3005A Filt.
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2005-1	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09**	**091026SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	101	102	72-132	1	0-10	
Arsenic	104	106	80-140	2	0-11	
Beryllium	100	101	89-119	1	0-8	
Cadmium	97	100	82-124	2	0-7	
Chromium	94	96	86-122	2	0-8	
Copper	103	105	78-126	2	0-7	
Lead	97	98	84-120	2	0-7	
Nickel	98	98	84-120	1	0-7	
Selenium	100	100	79-127	0	0-9	
Silver	112	113	86-128	1	0-7	
Thallium	95	97	79-121	2	0-8	
Zinc	103	109	89-131	5	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2006
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT-3@14	**Aqueous**	**FLAA2**	**10/29/09**	**10/29/09**	**091029S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	79	83	25-121	5	0-11	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2006
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2005-2	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09**	**091026S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	105	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/24/09
Work Order No:	09-10-2006
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2004-1	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09**	**091027S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	108	76-124	1	0-20	
Carbon Tetrachloride	99	98	74-134	1	0-20	
Chlorobenzene	100	101	80-120	1	0-20	
1,2-Dibromoethane	112	108	80-120	4	0-20	
1,2-Dichlorobenzene	96	99	80-120	4	0-20	
1,1-Dichloroethene	139	116	73-127	18	0-20	3
Ethylbenzene	98	100	78-126	2	0-20	
Toluene	95	98	80-120	3	0-20	
Trichloroethene	104	105	77-120	1	0-20	
Vinyl Chloride	111	104	72-126	6	0-20	
Methyl-t-Butyl Ether (MTBE)	108	106	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	64	75	36-162	15	0-30	
Diisopropyl Ether (DIPE)	103	111	60-138	8	0-45	
Ethyl-t-Butyl Ether (ETBE)	97	98	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	89	86	65-120	4	0-20	
Ethanol	88	105	30-180	18	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2006
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,828	**Aqueous**	**ICP 5300**	**10/26/09**	**10/26/09**	**091026LA1F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	98	95	80-120	73-127	3	0-20	
Arsenic	97	96	80-120	73-127	2	0-20	
Beryllium	96	96	80-120	73-127	1	0-20	
Cadmium	102	99	80-120	73-127	2	0-20	
Chromium	98	97	80-120	73-127	2	0-20	
Copper	102	100	80-120	73-127	2	0-20	
Lead	106	102	80-120	73-127	3	0-20	
Nickel	104	102	80-120	73-127	2	0-20	
Selenium	93	91	80-120	73-127	3	0-20	
Silver	109	108	80-120	73-127	1	0-20	
Thallium	100	98	80-120	73-127	2	0-20	
Zinc	110	106	80-120	73-127	4	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.	Date Received:	N/A
1900 Powell Street, 12th Floor	Work Order No:	09-10-2006
Emeryville, CA 94608-1811	Preparation:	EPA 3510C
	Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,392	**Aqueous**	**GC 45**	**10/26/09**	**10/27/09**	**091026B13**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	116	117	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-2006
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-429	**Aqueous**	**FLAA2**	**10/29/09**	**NONE**	**091029L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	3.75	3.71	99	57-135	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2006
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,392	**Aqueous**	**Mercury**	**10/26/09**	**10/26/09**	**091026L05F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	105	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2006
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,777	**Aqueous**	**GC/MS TT**	**10/26/09**	**10/29/09**	**091026L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	35	36	4-142	0-165	1	0-24	
2-Chlorophenol	74	75	53-113	43-123	1	0-17	
1,4-Dichlorobenzene	63	64	50-122	38-134	2	0-19	
N-Nitroso-di-n-propylamine	80	82	56-146	41-161	2	0-22	
Naphthalene	69	69	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	68	69	55-121	44-132	2	0-18	
Dimethyl Phthalate	81	81	0-112	0-131	0	0-20	
Acenaphthylene	71	71	33-145	14-164	1	0-20	
Acenaphthene	79	79	55-139	41-153	0	0-17	
4-Nitrophenol	34	35	1-145	0-169	2	0-29	
2,4-Dinitrotoluene	88	89	41-161	21-181	2	0-22	
Fluorene	78	78	59-121	49-131	0	0-20	
Pentachlorophenol	75	77	34-130	18-146	2	0-23	
Pyrene	92	93	38-170	16-192	1	0-27	
Butyl Benzyl Phthalate	87	87	0-152	0-177	0	0-20	
1,2,4-Trichlorobenzene	68	69	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2006
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-230	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09**	**091027L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	94	93	21-133	2-152	0	0-25	
2-Methylnaphthalene	94	93	21-140	1-160	0	0-25	
1-Methylnaphthalene	92	91	20-140	0-160	0	0-25	
Acenaphthylene	81	80	33-145	14-164	1	0-25	
Acenaphthene	89	90	55-121	44-132	0	0-25	
Fluorene	93	93	59-121	49-131	0	0-25	
Phenanthrene	86	86	54-120	43-131	0	0-25	
Anthracene	48	47	27-133	9-151	1	0-25	
Fluoranthene	66	67	26-137	8-156	1	0-25	
Pyrene	77	77	45-129	31-143	0	0-25	
Benzo (a) Anthracene	83	94	33-143	15-161	13	0-25	
Chrysene	79	80	17-168	0-193	1	0-25	
Benzo (k) Fluoranthene	101	101	24-159	2-182	0	0-25	
Benzo (b) Fluoranthene	88	86	24-159	2-182	3	0-25	
Benzo (a) Pyrene	66	67	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	107	107	0-171	0-200	0	0-25	
Dibenz (a,h) Anthracene	81	80	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	103	103	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2006
Preparation: EPA 3510C
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-309	**Aqueous**	**GC 44**	**10/26/09**	**10/28/09**	**091026L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	98	98	50-135	36-149	0	0-25	
Gamma-BHC	99	98	50-135	36-149	0	0-25	
Beta-BHC	98	97	50-135	36-149	1	0-25	
Heptachlor	107	105	50-135	36-149	2	0-25	
Delta-BHC	94	92	50-135	36-149	1	0-25	
Aldrin	105	102	50-135	36-149	3	0-25	
Heptachlor Epoxide	98	97	50-135	36-149	1	0-25	
Endosulfan I	96	96	50-135	36-149	1	0-25	
Dieldrin	93	91	50-135	36-149	2	0-25	
4,4'-DDE	113	108	50-135	36-149	4	0-25	
Endrin	113	112	50-135	36-149	1	0-25	
Endrin Aldehyde	98	98	50-135	36-149	0	0-25	
4,4'-DDD	106	104	50-135	36-149	2	0-25	
Endosulfan II	98	97	50-135	36-149	1	0-25	
4,4'-DDT	113	110	50-135	36-149	3	0-25	
Endosulfan Sulfate	92	92	50-135	36-149	1	0-25	
Methoxychlor	111	110	50-135	36-149	1	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2006
Preparation: EPA 3510C
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-957-27	**Aqueous**	**GC 26**	**10/26/09**	**10/29/09**	**091026L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	93	91	30-130	13-147	2	0-30	
Bolstar	79	78	30-130	13-147	1	0-30	
Chlorpyrifos	80	81	30-130	13-147	1	0-30	
Coumaphos	87	87	30-130	13-147	1	0-30	
Diazinon	72	72	30-130	13-147	1	0-30	
Disulfoton	84	85	30-130	13-147	1	0-30	
Ethoprop	90	90	30-130	13-147	0	0-30	
Fensulfothion	76	77	30-130	13-147	1	0-30	
Fenthion	85	85	30-130	13-147	1	0-30	
Merphos	70	71	30-130	13-147	1	0-30	
Methyl Parathion	85	86	30-130	13-147	1	0-30	
Phorate	116	117	30-130	13-147	1	0-30	
Ronnel	79	79	30-130	13-147	0	0-30	
Stirophos	86	86	30-130	13-147	0	0-30	
Tokuthion	80	80	30-130	13-147	1	0-30	
Trichloronate	85	85	30-130	13-147	0	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2006
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,276	**Aqueous**	**GC/MS L**	**10/27/09**	**10/27/09**	**091027L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	102	80-120	73-127	0	0-20	
Carbon Tetrachloride	81	85	74-134	64-144	5	0-20	
Chlorobenzene	102	101	80-120	73-127	1	0-20	
1,2-Dibromoethane	97	100	79-121	72-128	3	0-20	
1,2-Dichlorobenzene	100	100	80-120	73-127	0	0-20	
1,1-Dichloroethene	97	101	78-126	70-134	4	0-28	
Ethylbenzene	104	99	80-120	73-127	5	0-20	
Toluene	106	102	80-120	73-127	4	0-20	
Trichloroethene	98	99	79-127	71-135	1	0-20	
Vinyl Chloride	94	94	72-132	62-142	0	0-20	
Methyl-t-Butyl Ether (MTBE)	79	88	69-123	60-132	10	0-20	
Tert-Butyl Alcohol (TBA)	82	78	63-123	53-133	5	0-20	
Diisopropyl Ether (DIPE)	90	96	59-137	46-150	5	0-37	
Ethyl-t-Butyl Ether (ETBE)	85	92	69-123	60-132	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	87	94	70-120	62-128	7	0-20	
Ethanol	93	88	28-160	6-182	6	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-2006

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. 09-10-2006

CHAIN-OF-CUSTODY RECORD

Page 1 of

Project Number/Name RC000746.0002.00005

Project Location PG&E Radbuck

Laboratory Cal Science

Project Manager K. Brandt

Sampler(s)/Affiliation CM / ARCADIS

ANALYSIS / METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D	VOCs w/ MTBE, oxygenates, THCs	SVOCs w/ THCs	PAHs	*priority pollutant metals	organochlorine pest.	organophosphorous pest.	organic lead	Remarks	Total
1	CPT-3G14	W	10/22/09/14:37	1	✓	✓	✓	✓	✓	✓	✓	✓	*Lab filter	11
2	CPT-3G26		10/22/09/16:00	2	✓	✓	✓	✓	✓				and acidify	8
													all priority	
													pollutant metals	
3	TB-20091023	W	10/22/09/00:00			✓								1

Sample Matrix: L = Liquid; S = Solid; A = Air W = water

Total No. of Bottles/Containers

Relinquished by: [signature]	Organization: ARCADIS	Date 10/23/09	Time 08:00	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/23/09	Time 0800	Yes No N/A	
Relinquished by: [signature] TO GSO	Organization: CEL	Date 10/23/09	Time 1730	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 10/24/09	Time 0945	Yes No N/A	

Special Instructions/Remarks: 512 892 6111

Delivery Method: ☐ In Person ☐ Common Carrier GSO (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-☒006

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10/24/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** YL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** YL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** SO

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA 3 ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:** not ours **Checked by:** SO

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** WSC

Preservative: h: HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** SO

Calscience Environmental Laboratories, Inc.

November 05, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-2083**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/27/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/27/09
Work Order No: 09-10-2083
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT1@32-37	**09-10-2083-1-D**	**10/25/09 10:26**	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09 12:45**	**091028LA5F**

Comment(s): -Mercury was analyzed on 10/28/2009 12:39:49 PM with batch 091028L03F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	0.0118	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

CPT2@32-37	**09-10-2083-2-D**	**10/25/09 16:50**	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09 13:41**	**091028LA5F**

Comment(s): -Mercury was analyzed on 10/28/2009 12:42:06 PM with batch 091028L03F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

CPT10@40-47	**09-10-2083-3-D**	**10/25/09 14:00**	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09 13:43**	**091028LA5F**

Comment(s): -Mercury was analyzed on 10/28/2009 12:44:20 PM with batch 091028L03F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	0.0132	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0117	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/27/09
Work Order No: 09-10-2083
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4-D**	**10/25/09 13:10**	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09 13:44**	**091028LA5F**

Comment(s): -Mercury was analyzed on 10/28/2009 12:46:31 PM with batch 091028L03F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0323	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,400**	**N/A**	**Aqueous**	**Mercury**	**10/28/09**	**10/28/09 12:28**	**091028L03F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,835**	**N/A**	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09 12:41**	**091028LA5F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/27/09
Work Order No:	09-10-2083
Preparation:	EPA 3510C
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT1@32-37	**09-10-2083-1-E**	**10/25/09 10:26**	**Aqueous**	**GC 27**	**10/28/09**	**10/30/09 17:27**	**091028B21**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	68-140	

CPT2@32-37	**09-10-2083-2-E**	**10/25/09 16:50**	**Aqueous**	**GC 27**	**10/28/09**	**11/02/09 20:50**	**091028B21**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	68-140	

CPT10@40-47	**09-10-2083-3-E**	**10/25/09 14:00**	**Aqueous**	**GC 27**	**10/28/09**	**10/30/09 18:03**	**091028B21**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	68-140	

CPT10@15-20	**09-10-2083-4-E**	**10/25/09 13:10**	**Aqueous**	**GC 27**	**10/28/09**	**10/30/09 18:21**	**091028B21**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	81	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-211-1,397**	**N/A**	**Aqueous**	**GC 27**	**10/28/09**	**10/30/09 10:51**	**091028B21**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	N/A
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4-I**	**10/25/09 13:10**	**Aqueous**	**FLAA2**	**10/30/09**	**10/30/09 13:55**	**091030LA1**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	**099-10-019-432**	**N/A**	**Aqueous**	**FLAA2**	**10/30/09**	**10/30/09 13:55**	**091030LA1**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT1@32-37	**09-10-2083-1-G**	**10/25/09 10:26**	**Aqueous**	**GC/MS TT**	**10/28/09**	**11/02/09 20:19**	**091028L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	68	7-121		Phenol-d6	48	1-127	
Nitrobenzene-d5	84	50-146		2-Fluorobiphenyl	79	42-138	
2,4,6-Tribromophenol	83	41-137		p-Terphenyl-d14	88	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT2@32-37	**09-10-2083-2-G**	**10/25/09 16:50**	**Aqueous**	**GC/MS TT**	**10/28/09**	**11/02/09 20:49**	**091028L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	79	7-121		Phenol-d6	56	1-127	
Nitrobenzene-d5	97	50-146		2-Fluorobiphenyl	89	42-138	
2,4,6-Tribromophenol	93	41-137		p-Terphenyl-d14	94	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@40-47	**09-10-2083-3-G**	**10/25/09 14:00**	**Aqueous**	**GC/MS TT**	**10/28/09**	**11/02/09 21:19**	**091028L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	77	7-121		Phenol-d6	55	1-127	
Nitrobenzene-d5	90	50-146		2-Fluorobiphenyl	83	42-138	
2,4,6-Tribromophenol	91	41-137		p-Terphenyl-d14	90	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4-G**	**10/25/09 13:10**	**Aqueous**	**GC/MS TT**	**10/28/09**	**11/02/09 21:49**	**091028L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	75	7-121		Phenol-d6	54	1-127	
Nitrobenzene-d5	91	50-146		2-Fluorobiphenyl	86	42-138	
2,4,6-Tribromophenol	89	41-137		p-Terphenyl-d14	97	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,781**	**N/A**	**Aqueous**	**GC/MS TT**	**10/28/09**	**11/03/09 13:23**	**091028L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	83	7-121		Phenol-d6	63	1-127	
Nitrobenzene-d5	106	50-146		2-Fluorobiphenyl	97	42-138	
2,4,6-Tribromophenol	100	41-137		p-Terphenyl-d14	107	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT1@32-37	**09-10-2083-1-F**	**10/25/09 10:26**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/30/09 15:17**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	89	33-144		Nitrobenzene-d5	107	28-139	
p-Terphenyl-d14	79	23-160					

CPT2@32-37	**09-10-2083-2-F**	**10/25/09 16:50**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/30/09 15:40**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	80	33-144		Nitrobenzene-d5	86	28-139	
p-Terphenyl-d14	73	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@40-47	**09-10-2083-3-F**	**10/25/09 14:00**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/30/09 16:02**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	87	33-144		Nitrobenzene-d5	96	28-139	
p-Terphenyl-d14	84	23-160					

CPT10@15-20	**09-10-2083-4-F**	**10/25/09 13:10**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/30/09 16:24**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	78	33-144		Nitrobenzene-d5	85	28-139	
p-Terphenyl-d14	70	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-008-230**	**N/A**	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09 11:34**	**091027L10**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	91	33-144		Nitrobenzene-d5	101	28-139	
p-Terphenyl-d14	71	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4-J**	**10/25/09 13:10**	**Aqueous**	**GC 51**	**10/28/09**	**10/29/09 02:38**	**091028L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	77	50-135		2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

Method Blank	**099-12-529-310**	**N/A**	**Aqueous**	**GC 51**	**10/28/09**	**10/29/09 02:11**	**091028L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	0.10	1		Endrin	ND	0.10	1	
Gamma-BHC	ND	0.10	1		Endrin Aldehyde	ND	0.10	1	
Beta-BHC	ND	0.10	1		4,4'-DDD	ND	0.10	1	
Heptachlor	ND	0.10	1		Endosulfan II	ND	0.10	1	
Delta-BHC	ND	0.10	1		4,4'-DDT	ND	0.10	1	
Aldrin	ND	0.10	1		Endosulfan Sulfate	ND	0.10	1	
Heptachlor Epoxide	ND	0.10	1		Methoxychlor	ND	0.10	1	
Endosulfan I	ND	0.10	1		Chlordane	ND	1.0	1	
Dieldrin	ND	0.10	1		Toxaphene	ND	2.0	1	
4,4'-DDE	ND	0.10	1		Endrin Ketone	ND	0.10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	50-135		2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/27/09
Work Order No:	09-10-2083
Preparation:	EPA 3510C
Method:	EPA 8141B
Units:	mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4-H**	**10/25/09 13:10**	**Aqueous**	**GC 26**	**10/28/09**	**10/30/09 07:10**	**091028L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	110	30-130	

Method Blank	**099-12-957-26**	**N/A**	**Aqueous**	**GC 26**	**10/28/09**	**10/30/09 06:21**	**091028L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.0050	1		Merphos	ND	0.0050	1	
Bolstar	ND	0.0050	1		Methyl Parathion	ND	0.0050	1	
Chlorpyrifos	ND	0.0050	1		Mevinphos	ND	0.0050	1	
Coumaphos	ND	0.0050	1		Naled	ND	0.040	1	
Diazinon	ND	0.0050	1		Phorate	ND	0.0050	1	
Dichlorvos	ND	0.0050	1		Ronnel	ND	0.0050	1	
Disulfoton	ND	0.010	1		Stirophos	ND	0.020	1	
Ethoprop	ND	0.0050	1		Tokuthion	ND	0.0050	1	
Fensulfothion	ND	0.0050	1		Trichloronate	ND	0.0050	1	
Fenthion	ND	0.0050	1		Demeton-o/s	ND	0.0050	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	102	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT1@32-37	**09-10-2083-1-A**	**10/25/09 10:26**	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09 14:06**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT1@32-37	**09-10-2083-1**		**Aqueous**		**10/28/09**	**10/28/09 14:06**	**091028L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	133	80-128	2	Dibromofluoromethane	120	80-127	
Toluene-d8	93	80-120		1,4-Bromofluorobenzene	88	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT2@32-37	**09-10-2083-2-A**	**10/25/09 16:50**	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09 17:37**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	16	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT2@32-37	**09-10-2083-2**		**Aqueous**		**10/28/09**	**10/28/09 17:37**	**091028L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	116	80-128		Dibromofluoromethane	112	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	88	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@40-47	**09-10-2083-3-A**	**10/25/09 14:00**	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09 16:25**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@40-47	**09-10-2083-3**		**Aqueous**		**10/28/09**	**10/28/09 16:25**	**091028L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	124	80-128		Dibromofluoromethane	115	80-127	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4-A**	**10/25/09 13:10**	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09 18:05**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	16	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CPT10@15-20	**09-10-2083-4**		**Aqueous**		**10/28/09**	**10/28/09 18:05**	**091028L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	122	80-128		Dibromofluoromethane	116	80-127	
Toluene-d8	94	80-120		1,4-Bromofluorobenzene	89	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,278**	**N/A**	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09 13:10**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/27/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,278**	**N/A**	**Aqueous**		**10/28/09**	**10/28/09 13:10**	**091028L01**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	112	80-128		Dibromofluoromethane	104	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	90	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/27/09
Work Order No:	09-10-2083
Preparation:	EPA 3005A Filt.
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT1@32-37	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09**	**091028SA5**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	105	72-132	0	0-10	
Arsenic	107	107	80-140	0	0-11	
Beryllium	107	105	89-119	1	0-8	
Cadmium	102	103	82-124	0	0-7	
Chromium	100	100	86-122	0	0-8	
Copper	106	106	78-126	0	0-7	
Lead	101	104	84-120	2	0-7	
Nickel	104	105	84-120	1	0-7	
Selenium	103	106	79-127	2	0-9	
Silver	116	115	86-128	1	0-7	
Thallium	100	102	79-121	1	0-8	
Zinc	104	107	89-131	3	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/27/09
Work Order No:	09-10-2083
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1619-12	**Aqueous**	**FLAA2**	**10/30/09**	**10/30/09**	**091030SA1**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	63	66	25-121	4	0-11	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/27/09
Work Order No:	09-10-2083
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT2@32-37	**Aqueous**	**Mercury**	**10/28/09**	**10/28/09**	**091028S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	72	73	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	10/27/09
Work Order No:	09-10-2083
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
CPT2@32-37	**Aqueous**	**Mercury**	**10/28/09**	**10/28/09**	**091028S03**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	95	95	75-125	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/27/09
Work Order No:	09-10-2083
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
CPT1@32-37	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09**	**091028S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	112	112	76-124	1	0-20	
Carbon Tetrachloride	104	105	74-134	1	0-20	
Chlorobenzene	101	100	80-120	1	0-20	
1,2-Dibromoethane	106	112	80-120	6	0-20	
1,2-Dichlorobenzene	96	100	80-120	4	0-20	
1,1-Dichloroethene	140	123	73-127	13	0-20	3
Ethylbenzene	103	100	78-126	3	0-20	
Toluene	100	99	80-120	1	0-20	
Trichloroethene	108	108	77-120	0	0-20	
Vinyl Chloride	109	108	72-126	1	0-20	
Methyl-t-Butyl Ether (MTBE)	100	112	67-121	12	0-49	
Tert-Butyl Alcohol (TBA)	78	81	36-162	3	0-30	
Diisopropyl Ether (DIPE)	102	116	60-138	13	0-45	
Ethyl-t-Butyl Ether (ETBE)	92	101	69-123	9	0-30	
Tert-Amyl-Methyl Ether (TAME)	83	88	65-120	6	0-20	
Ethanol	96	129	30-180	29	0-72	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2083
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,835	**Aqueous**	**ICP 5300**	**10/28/09**	**10/29/09**	**091028LA5F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	96	96	80-120	73-127	0	0-20	
Arsenic	103	101	80-120	73-127	2	0-20	
Beryllium	102	100	80-120	73-127	2	0-20	
Cadmium	103	101	80-120	73-127	2	0-20	
Chromium	99	97	80-120	73-127	2	0-20	
Copper	101	99	80-120	73-127	2	0-20	
Lead	107	105	80-120	73-127	2	0-20	
Nickel	108	106	80-120	73-127	2	0-20	
Selenium	99	97	80-120	73-127	2	0-20	
Silver	112	110	80-120	73-127	2	0-20	
Thallium	102	100	80-120	73-127	2	0-20	
Zinc	102	101	80-120	73-127	1	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2083
Preparation:	EPA 3510C
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,397	**Aqueous**	**GC 27**	**10/28/09**	**10/30/09**	**091028B21**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	102	104	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-2083
Emeryville, CA 94608-1811		Preparation:	N/A
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-432	**Aqueous**	**FLAA2**	**10/30/09**	**NONE**	**091030LA1**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	3.75	3.53	94	57-135	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2083
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,400	**Aqueous**	**Mercury**	**10/28/09**	**10/28/09**	**091028L03F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	101	100	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2083
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,781	**Aqueous**	**GC/MS TT**	**10/28/09**	**11/03/09**	**091028L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	65	65	4-142	0-165	1	0-24	
2-Chlorophenol	102	102	53-113	43-123	0	0-17	
1,4-Dichlorobenzene	82	82	50-122	38-134	0	0-19	
N-Nitroso-di-n-propylamine	109	109	56-146	41-161	0	0-22	
Naphthalene	86	85	21-133	2-152	0	0-20	
4-Chloro-3-Methylphenol	102	103	55-121	44-132	1	0-18	
Dimethyl Phthalate	95	96	0-112	0-131	1	0-20	
Acenaphthylene	92	91	33-145	14-164	1	0-20	
Acenaphthene	100	99	55-139	41-153	1	0-17	
4-Nitrophenol	62	63	1-145	0-169	3	0-29	
2,4-Dinitrotoluene	109	111	41-161	21-181	2	0-22	
Fluorene	92	94	59-121	49-131	2	0-20	
Pentachlorophenol	99	102	34-130	18-146	3	0-23	
Pyrene	117	111	38-170	16-192	5	0-27	
Butyl Benzyl Phthalate	105	103	0-152	0-177	2	0-20	
1,2,4-Trichlorobenzene	88	88	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2083
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-230	**Aqueous**	**GC/MS AAA**	**10/27/09**	**10/29/09**	**091027L10**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	94	93	21-133	2-152	0	0-25	
2-Methylnaphthalene	94	93	21-140	1-160	0	0-25	
1-Methylnaphthalene	92	91	20-140	0-160	0	0-25	
Acenaphthylene	81	80	33-145	14-164	1	0-25	
Acenaphthene	89	90	55-121	44-132	0	0-25	
Fluorene	93	93	59-121	49-131	0	0-25	
Phenanthrene	86	86	54-120	43-131	0	0-25	
Anthracene	48	47	27-133	9-151	1	0-25	
Fluoranthene	66	67	26-137	8-156	1	0-25	
Pyrene	77	77	45-129	31-143	0	0-25	
Benzo (a) Anthracene	83	94	33-143	15-161	13	0-25	
Chrysene	79	80	17-168	0-193	1	0-25	
Benzo (k) Fluoranthene	101	101	24-159	2-182	0	0-25	
Benzo (b) Fluoranthene	88	86	24-159	2-182	3	0-25	
Benzo (a) Pyrene	66	67	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	107	107	0-171	0-200	0	0-25	
Dibenz (a,h) Anthracene	81	80	0-219	0-256	1	0-25	
Benzo (g,h,i) Perylene	103	103	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2083
Preparation: EPA 3510C
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-310	**Aqueous**	**GC 51**	**10/28/09**	**10/29/09**	**091028L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	94	95	50-135	36-149	1	0-25	
Gamma-BHC	95	95	50-135	36-149	1	0-25	
Beta-BHC	97	98	50-135	36-149	1	0-25	
Heptachlor	77	77	50-135	36-149	0	0-25	
Delta-BHC	95	97	50-135	36-149	2	0-25	
Aldrin	77	77	50-135	36-149	0	0-25	
Heptachlor Epoxide	95	97	50-135	36-149	2	0-25	
Endosulfan I	96	98	50-135	36-149	2	0-25	
Dieldrin	76	77	50-135	36-149	1	0-25	
4,4'-DDE	100	102	50-135	36-149	2	0-25	
Endrin	102	103	50-135	36-149	2	0-25	
Endrin Aldehyde	98	100	50-135	36-149	2	0-25	
4,4'-DDD	100	102	50-135	36-149	2	0-25	
Endosulfan II	86	88	50-135	36-149	2	0-25	
4,4'-DDT	83	84	50-135	36-149	2	0-25	
Endosulfan Sulfate	87	89	50-135	36-149	2	0-25	
Methoxychlor	95	97	50-135	36-149	2	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2083
Preparation: EPA 3510C
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-957-26	**Aqueous**	**GC 26**	**10/28/09**	**10/30/09**	**091028L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	103	96	30-130	13-147	7	0-30	
Bolstar	86	83	30-130	13-147	3	0-30	
Chlorpyrifos	89	86	30-130	13-147	3	0-30	
Coumaphos	96	92	30-130	13-147	4	0-30	
Diazinon	80	76	30-130	13-147	5	0-30	
Disulfoton	93	90	30-130	13-147	3	0-30	
Ethoprop	99	96	30-130	13-147	3	0-30	
Fensulfothion	84	81	30-130	13-147	4	0-30	
Fenthion	94	90	30-130	13-147	4	0-30	
Merphos	78	75	30-130	13-147	4	0-30	
Methyl Parathion	94	90	30-130	13-147	4	0-30	
Phorate	127	125	30-130	13-147	1	0-30	
Ronnel	89	85	30-130	13-147	4	0-30	
Stirophos	97	91	30-130	13-147	6	0-30	
Tokuthion	88	85	30-130	13-147	4	0-30	
Trichloronate	94	90	30-130	13-147	4	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2083
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,278	**Aqueous**	**GC/MS L**	**10/28/09**	**10/28/09**	**091028L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	110	101	80-120	73-127	8	0-20	
Carbon Tetrachloride	96	89	74-134	64-144	7	0-20	
Chlorobenzene	102	101	80-120	73-127	1	0-20	
1,2-Dibromoethane	101	100	79-121	72-128	2	0-20	
1,2-Dichlorobenzene	100	100	80-120	73-127	1	0-20	
1,1-Dichloroethene	116	104	78-126	70-134	11	0-28	
Ethylbenzene	103	102	80-120	73-127	1	0-20	
Toluene	100	104	80-120	73-127	4	0-20	
Trichloroethene	109	96	79-127	71-135	13	0-20	
Vinyl Chloride	103	98	72-132	62-142	5	0-20	
Methyl-t-Butyl Ether (MTBE)	98	97	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	76	93	63-123	53-133	20	0-20	
Diisopropyl Ether (DIPE)	97	94	59-137	46-150	3	0-37	
Ethyl-t-Butyl Ether (ETBE)	90	90	69-123	60-132	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	85	90	70-120	62-128	5	0-20	
Ethanol	157	86	28-160	6-182	58	0-57	X

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-2083

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00005

Project Location PGE Radback Oakley

Laboratory CalScience

Project Manager J.Maehr / TM K.Brandt

Sampler(s)/Affiliation KB

2083

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (8015B)	Low level VOCs 8260	SVOCs 8270C	PAHs 8270C	PCBs 8270/8310	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8141/614	RP Metals (Field Filtered) 6010/7470/7471	TEL	Remarks	Total
CPT1@32-37	L	10/25/09 1026	1	X	X	X	X				X			7
CPT2@32-37'	L	1650	2	X	X	X	X				X			7
CPT10@40-47'	L	1400	3	X	X	X	X				X			7
CPT10 @ 15-20	L	1310	4	X	X	X	X		X	X	X	X		~~8~~ 10

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: Katherine Brandt	Organization: ARCADIS	Date 10/26/09	Time 924	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 10/26/09	Time 0924	Yes No N/A	
Relinquished by: [signature] To 080	Organization: CEL	Date 10/26/09	Time 1730	Seal Intact?	
Received by: Danny Le CEL	Organization: CEL	Date 10/27/09	Time 10:00	Yes No N/A	

Special Instructions/Remarks:

TK#512899918/919

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2083

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: Arcadis

DATE: 10/27/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.2 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** DL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** DL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑ WSC 10-27-09	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3 VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑5 1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☑250PB**n**f ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** DS

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2 0 F 3

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: Arcadis

DATE: 10/27/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.8 °C - 0.2 °C (CF) = 2.6 °C ☑ **Blank** ☐ **Sample**

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** DL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** DL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** ALSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh (5) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB (5) ☐1AGB**na₂** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☑250PB**n** (5) ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** PS

Preservative: **h:** HCL **n:** HNO3 **na₂:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2083

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s)/preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☑ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Containers**
  - ☐ **Analysis**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Air sample containers compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-3) labeled as CPT-10 40-45, 10-25-09 @1400

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date WSC 10-27-09

Calscience Environmental Laboratories, Inc.

November 10, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-2124**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/28/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**ICP 5300**	**10/30/09**	**10/30/09 19:33**	**091030L01**

Comment(s): -Mercury was analyzed on 10/30/2009 4:45:37 PM with batch 091030L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	1.74	0.750	1		Nickel	16.6	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	12.5	0.250	1		Thallium	ND	0.750	1	
Copper	5.52	0.500	1		Zinc	30.3	1.00	1	
Lead	1.98	0.500	1						

Method Blank	**099-04-007-6,630**	**N/A**	**Solid**	**Mercury**	**10/30/09**	**10/30/09 15:32**	**091030L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,882**	**N/A**	**Solid**	**ICP 5300**	**10/30/09**	**10/30/09 19:11**	**091030L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**GC 47**	**10/30/09**	**10/31/09 07:27**	**091030B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	109	61-145	

Method Blank	**099-12-025-895**	**N/A**	**Solid**	**GC 47**	**10/30/09**	**10/31/09 05:37**	**091030B09**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	DHS LUFT
Method:	DHS LUFT

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**FLAA2**	**10/30/09**	**10/30/09 19:53**	**091030L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Method Blank	**099-10-020-1,281**	**N/A**	**Solid**	**FLAA2**	**10/30/09**	**10/30/09 19:53**	**091030L01**

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**GC 41**	**10/30/09**	**11/02/09 15:36**	**091030L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	112	50-135			2,4,5,6-Tetrachloro-m-Xylene	113	50-135		

Method Blank	**099-12-537-759**	**N/A**	**Solid**	**GC 41**	**10/30/09**	**11/02/09 13:43**	**091030L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	113	50-135			2,4,5,6-Tetrachloro-m-Xylene	88	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**GC 31**	**10/30/09**	**11/02/09 20:01**	**091030L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	123	50-130		2,4,5,6-Tetrachloro-m-Xylene	120	50-130	

Method Blank	**099-12-535-807**	**N/A**	**Solid**	**GC 31**	**10/30/09**	**11/02/09 19:41**	**091030L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	117	50-130		2,4,5,6-Tetrachloro-m-Xylene	83	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**GC/MS SS**	**10/30/09**	**11/03/09 18:06**	**091030L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	42-120		Phenol-d6	92	46-118	
Nitrobenzene-d5	88	42-150		2-Fluorobiphenyl	87	38-134	
2,4,6-Tribromophenol	83	36-132		p-Terphenyl-d14	105	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-982**	**N/A**	**Solid**	**GC/MS SS**	**10/30/09**	**11/03/09 13:15**	**091030L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	80	42-120		Phenol-d6	86	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	78	38-134	
2,4,6-Tribromophenol	78	36-132		p-Terphenyl-d14	89	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8141B
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-A**	**10/26/09 11:30**	**Solid**	**GC 26**	**10/30/09**	**11/03/09 16:40**	**091030L11**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	87	30-130	

Method Blank	**099-12-465-16**	**N/A**	**Solid**	**GC 26**	**10/30/09**	**11/03/09 14:12**	**091030L11**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Demeton-o/s	ND	0.50	1		Fenthion	ND	0.50	1	
Azinphos Methyl	ND	0.50	1		Merphos	ND	0.50	1	
Bolstar	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Mevinphos	ND	0.50	1	
Coumaphos	ND	0.50	1		Naled	ND	4.0	1	
Diazinon	ND	0.50	1		Phorate	ND	0.50	1	
Dichlorvos	ND	0.50	1		Ronnel	ND	0.50	1	
Disulfoton	ND	0.50	1		Stirophos	ND	2.0	1	
Ethoprop	ND	0.50	1		Tokuthion	ND	0.50	1	
Fensulfothion	ND	0.50	1		Trichloronate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual
Tributylphosphate	77	30-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD MW-1@5ft	**09-10-2124-1-C**	**10/26/09 11:30**	**Solid**	**GC/MS JJ**	**10/26/09**	**10/28/09 20:44**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	63	45	0.903		c-1,3-Dichloropropene	ND	0.90	0.903	
Benzene	ND	0.90	0.903		t-1,3-Dichloropropene	ND	1.8	0.903	
Bromobenzene	ND	0.90	0.903		Ethylbenzene	ND	0.90	0.903	
Bromochloromethane	ND	1.8	0.903		2-Hexanone	ND	18	0.903	
Bromodichloromethane	ND	0.90	0.903		Isopropylbenzene	ND	0.90	0.903	
Bromoform	ND	4.5	0.903		p-Isopropyltoluene	ND	0.90	0.903	
Bromomethane	ND	18	0.903		Methylene Chloride	ND	9.0	0.903	
2-Butanone	ND	18	0.903		4-Methyl-2-Pentanone	ND	18	0.903	
n-Butylbenzene	ND	0.90	0.903		Naphthalene	ND	9.0	0.903	
sec-Butylbenzene	ND	0.90	0.903		n-Propylbenzene	ND	1.8	0.903	
tert-Butylbenzene	ND	0.90	0.903		Styrene	ND	0.90	0.903	
Carbon Disulfide	ND	9.0	0.903		1,1,1,2-Tetrachloroethane	ND	0.90	0.903	
Carbon Tetrachloride	ND	0.90	0.903		1,1,2,2-Tetrachloroethane	ND	1.8	0.903	
Chlorobenzene	ND	0.90	0.903		Tetrachloroethene	ND	0.90	0.903	
Chloroethane	ND	1.8	0.903		Toluene	ND	0.90	0.903	
Chloroform	ND	0.90	0.903		1,2,3-Trichlorobenzene	ND	1.8	0.903	
Chloromethane	ND	18	0.903		1,2,4-Trichlorobenzene	ND	1.8	0.903	
2-Chlorotoluene	ND	0.90	0.903		1,1,1-Trichloroethane	ND	0.90	0.903	
4-Chlorotoluene	ND	0.90	0.903		1,1,2-Trichloroethane	ND	0.90	0.903	
Dibromochloromethane	ND	1.8	0.903		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.0	0.903	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.903		Trichloroethene	ND	1.8	0.903	
1,2-Dibromoethane	ND	0.90	0.903		1,2,3-Trichloropropane	ND	1.8	0.903	
Dibromomethane	ND	0.90	0.903		1,2,4-Trimethylbenzene	ND	1.8	0.903	
1,2-Dichlorobenzene	ND	0.90	0.903		Trichlorofluoromethane	ND	9.0	0.903	
1,3-Dichlorobenzene	ND	0.90	0.903		1,3,5-Trimethylbenzene	ND	1.8	0.903	
1,4-Dichlorobenzene	ND	0.90	0.903		Vinyl Acetate	ND	9.0	0.903	
Dichlorodifluoromethane	ND	1.8	0.903		Vinyl Chloride	ND	0.90	0.903	
1,1-Dichloroethane	ND	0.90	0.903		p/m-Xylene	ND	1.8	0.903	
1,2-Dichloroethane	ND	0.90	0.903		o-Xylene	ND	0.90	0.903	
1,1-Dichloroethene	ND	0.90	0.903		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.903	
c-1,2-Dichloroethene	ND	0.90	0.903		Tert-Butyl Alcohol (TBA)	ND	18	0.903	
t-1,2-Dichloroethene	ND	0.90	0.903		Diisopropyl Ether (DIPE)	ND	0.90	0.903	
1,2-Dichloropropane	ND	0.90	0.903		Ethyl-t-Butyl Ether (ETBE)	ND	0.90	0.903	
1,3-Dichloropropane	ND	0.90	0.903		Tert-Amyl-Methyl Ether (TAME)	ND	0.90	0.903	
2,2-Dichloropropane	ND	4.5	0.903		Ethanol	ND	450	0.903	
1,1-Dichloropropene	ND	1.8	0.903						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	123	71-137		1,2-Dichloroethane-d4	125	58-160	
Toluene-d8	97	87-111		1,4-Bromofluorobenzene	91	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	10/28/09
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-2,310**	**N/A**	**Solid**	**GC/MS JJ**	**10/28/09**	**10/28/09 12:30**	**091028L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		c-1,3-Dichloropropene	ND	5.0	1	
Benzene	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromobenzene	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		2-Hexanone	ND	50	1	
Bromodichloromethane	ND	5.0	1		Isopropylbenzene	ND	5.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
Bromomethane	ND	25	1		Methylene Chloride	ND	50	1	
2-Butanone	ND	50	1		4-Methyl-2-Pentanone	ND	50	1	
n-Butylbenzene	ND	5.0	1		Naphthalene	ND	50	1	
sec-Butylbenzene	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
tert-Butylbenzene	ND	5.0	1		Styrene	ND	5.0	1	
Carbon Disulfide	ND	50	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Carbon Tetrachloride	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Tetrachloroethene	ND	5.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	5.0	1	
Chloroform	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Chloromethane	ND	25	1		1,2,4-Trichlorobenzene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		1,1,1-Trichloroethane	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromochloromethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		Trichloroethene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,3-Dichlorobenzene	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		Vinyl Acetate	ND	50	1	
Dichlorodifluoromethane	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
1,1-Dichloroethane	ND	5.0	1		p/m-Xylene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		o-Xylene	ND	5.0	1	
1,1-Dichloroethene	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
t-1,2-Dichloroethene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
1,2-Dichloropropane	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
1,3-Dichloropropane	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	250	1	
1,1-Dichloropropene	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	71-137		1,2-Dichloroethane-d4	116	58-160	
Toluene-d8	97	87-111		1,4-Bromofluorobenzene	89	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2358-66	**Solid**	**ICP 5300**	**10/30/09**	**10/30/09**	**091030S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	39	42	50-115	6	0-20	3
Arsenic	101	107	75-125	6	0-20	
Beryllium	102	109	75-125	6	0-20	
Cadmium	99	104	75-125	5	0-20	
Chromium	99	103	75-125	3	0-20	
Copper	106	111	75-125	4	0-20	
Lead	99	103	75-125	4	0-20	
Nickel	100	104	75-125	3	0-20	
Selenium	92	99	75-125	7	0-20	
Silver	108	110	75-125	2	0-20	
Thallium	95	100	75-125	5	0-20	
Zinc	57	51	75-125	2	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 3050B
Method:	EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-10-2358-66	**Solid**	**ICP 5300**	**10/30/09**	**10/30/09**	**091030S01**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	79	79	75-125	1	0-20	
Arsenic	83	82	75-125	0	0-20	
Beryllium	85	86	75-125	1	0-20	
Cadmium	82	82	75-125	1	0-20	
Chromium	81	81	75-125	0	0-20	
Copper	86	86	75-125	0	0-20	
Lead	83	82	75-125	1	0-20	
Nickel	81	82	75-125	1	0-20	
Selenium	77	78	75-125	1	0-20	
Silver	101	102	75-125	1	0-20	
Thallium	79	78	75-125	1	0-20	
Zinc	48	45	75-125	2	0-20	5

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2380-2	**Solid**	**GC 47**	**10/30/09**	**10/31/09**	**091030S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	96	103	64-130	6	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	DHS LUFT
Method:	DHS LUFT

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2174-2	**Solid**	**FLAA2**	**10/30/09**	**10/30/09**	**091030S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	79	82	22-148	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2074-2	**Solid**	**Mercury**	**10/30/09**	**10/30/09**	**091030S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	119	107	71-137	8	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/28/09
Work Order No: 09-10-2124
Preparation: EPA 3545
Method: EPA 8081A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RAD MW-1@5ft	**Solid**	**GC 41**	**10/30/09**	**11/02/09**	**091030S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Alpha-BHC	114	105	50-135	8	0-25	
Gamma-BHC	114	105	50-135	8	0-25	
Beta-BHC	116	106	50-135	9	0-25	
Heptachlor	116	107	50-135	8	0-25	
Delta-BHC	115	106	50-135	8	0-25	
Aldrin	113	105	50-135	7	0-25	
Heptachlor Epoxide	103	94	50-135	9	0-25	
Endosulfan I	113	103	50-135	9	0-25	
Dieldrin	117	106	50-135	9	0-25	
4,4'-DDE	121	110	50-135	10	0-25	
Endrin	126	116	50-135	9	0-25	
Endrin Aldehyde	113	104	50-135	8	0-25	
4,4'-DDD	119	108	50-135	10	0-25	
Endosulfan II	114	104	50-135	9	0-25	
4,4'-DDT	123	112	50-135	10	0-25	
Endosulfan Sulfate	115	105	50-135	10	0-25	
Methoxychlor	114	104	50-135	9	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RAD MW-1@5ft	**Solid**	**GC 31**	**10/30/09**	**11/02/09**	**091030S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	141	116	50-135	20	0-20	3
Aroclor-1260	123	122	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 10/28/09
Work Order No: 09-10-2124
Preparation: EPA 3545
Method: EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-2074-1	**Solid**	**GC/MS SS**	**01/01/95**	**11/03/09**	**091030S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	91	57-123	3	0-16	
2-Chlorophenol	88	91	57-111	4	0-17	
1,4-Dichlorobenzene	88	91	49-127	4	0-20	
N-Nitroso-di-n-propylamine	97	102	54-144	5	0-17	
1,2,4-Trichlorobenzene	87	90	42-132	4	0-20	
Naphthalene	79	82	50-150	3	0-20	
4-Chloro-3-Methylphenol	90	93	50-128	3	0-17	
Dimethyl Phthalate	76	78	50-150	2	0-20	
Acenaphthylene	79	81	50-150	3	0-20	
Acenaphthene	86	88	49-133	3	0-18	
4-Nitrophenol	85	87	30-144	2	0-21	
2,4-Dinitrotoluene	83	85	50-128	2	0-18	
Fluorene	85	87	50-150	3	0-20	
Pentachlorophenol	73	75	29-113	3	0-22	
Pyrene	100	104	47-149	3	0-20	
Butyl Benzyl Phthalate	88	91	50-150	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 3545
Method:	EPA 8141B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RAD MW-1@5ft	**Solid**	**GC 26**	**10/30/09**	**11/03/09**	**091030S11**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	89	92	30-130	3	0-30	
Bolstar	77	77	30-130	0	0-30	
Chlorpyrifos	77	77	30-130	0	0-30	
Coumaphos	83	84	30-130	1	0-30	
Diazinon	83	82	30-130	1	0-30	
Disulfoton	81	81	30-130	0	0-30	
Ethoprop	83	84	30-130	2	0-30	
Fensulfothion	78	78	30-130	0	0-30	
Fenthion	83	83	30-130	1	0-30	
Merphos	62	62	30-130	1	0-30	
Methyl Parathion	82	83	30-130	1	0-30	
Phorate	112	111	30-130	1	0-30	
Ronnel	76	76	30-130	1	0-30	
Stirophos	84	84	30-130	0	0-30	
Tokuthion	76	76	30-130	0	0-30	
Trichloronate	82	81	30-130	1	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	10/28/09
Work Order No:	09-10-2124
Preparation:	EPA 5035
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-1540-2	**Solid**	**GC/MS JJ**	**10/19/09**	**10/28/09**	**091028S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	76	40-142	14	0-18	
Carbon Tetrachloride	92	80	37-139	13	0-20	
Chlorobenzene	89	80	43-127	11	0-26	
1,2-Dibromoethane	100	95	70-130	5	0-30	
1,2-Dichlorobenzene	80	72	40-160	10	0-36	
1,1-Dichloroethene	89	79	16-178	12	0-25	
Ethylbenzene	93	82	70-130	13	0-30	
Toluene	92	79	44-128	13	0-15	
Trichloroethene	90	80	47-131	13	0-19	
Vinyl Chloride	76	72	29-161	5	0-42	
Methyl-t-Butyl Ether (MTBE)	81	77	42-150	5	0-34	
Tert-Butyl Alcohol (TBA)	90	87	61-109	3	0-47	
Diisopropyl Ether (DIPE)	89	81	73-133	9	0-25	
Ethyl-t-Butyl Ether (ETBE)	79	73	73-132	8	0-25	
Tert-Amyl-Methyl Ether (TAME)	77	71	82-120	8	0-25	3
Ethanol	77	66	39-117	15	0-99	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2124
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,882	**Solid**	**ICP 5300**	**10/30/09**	**10/30/09**	**091030L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	96	95	80-120	73-127	2	0-20	
Arsenic	101	99	80-120	73-127	2	0-20	
Beryllium	100	98	80-120	73-127	2	0-20	
Cadmium	102	102	80-120	73-127	0	0-20	
Chromium	99	98	80-120	73-127	1	0-20	
Copper	100	99	80-120	73-127	1	0-20	
Lead	104	104	80-120	73-127	0	0-20	
Nickel	105	104	80-120	73-127	1	0-20	
Selenium	95	95	80-120	73-127	0	0-20	
Silver	112	111	80-120	73-127	1	0-20	
Thallium	101	100	80-120	73-127	1	0-20	
Zinc	104	104	80-120	73-127	0	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2124
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-895	**Solid**	**GC 47**	**10/30/09**	**10/31/09**	**091030B09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	98	106	75-123	8	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ARCADIS U.S., Inc.		Date Received:	N/A
1900 Powell Street, 12th Floor		Work Order No:	09-10-2124
Emeryville, CA 94608-1811		Preparation:	DHS LUFT
		Method:	DHS LUFT

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-1,281	**Solid**	**FLAA2**	**10/30/09**		**091030L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	12.5	11.9	95	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2124
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,630	**Solid**	**Mercury**	**10/30/09**	**10/30/09**	**091030L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	109	85-121	3	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2124
Preparation: EPA 3545
Method: EPA 8081A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-759	**Solid**	**GC 41**	**10/30/09**	**11/02/09**	**091030L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Alpha-BHC	105	107	50-135	36-149	2	0-25	
Gamma-BHC	113	116	50-135	36-149	2	0-25	
Beta-BHC	114	116	50-135	36-149	2	0-25	
Heptachlor	116	118	50-135	36-149	2	0-25	
Delta-BHC	137	139	50-135	36-149	2	0-25	ME
Aldrin	108	111	50-135	36-149	2	0-25	
Heptachlor Epoxide	108	110	50-135	36-149	2	0-25	
Endosulfan I	113	116	50-135	36-149	2	0-25	
Dieldrin	120	122	50-135	36-149	1	0-25	
4,4'-DDE	122	124	50-135	36-149	2	0-25	
Endrin	124	127	50-135	36-149	2	0-25	
Endrin Aldehyde	120	118	50-135	36-149	2	0-25	
4,4'-DDD	119	124	50-135	36-149	4	0-25	
Endosulfan II	117	120	50-135	36-149	3	0-25	
4,4'-DDT	131	136	50-135	36-149	4	0-25	ME
Endosulfan Sulfate	118	122	50-135	36-149	3	0-25	
Methoxychlor	125	126	50-135	36-149	1	0-25	

Total number of LCS compounds : 17
Total number of ME compounds : 2
Total number of ME compounds allowed : 1
LCS ME CL validation result : Not Pass(See Narrative)

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-10-2124
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-807	**Solid**	**GC 31**	**10/30/09**	**11/02/09**	**091030L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	106	108	50-135	1	0-20	
Aroclor-1260	112	119	50-135	6	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2124
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-982	**Solid**	**GC/MS SS**	**10/30/09**	**11/03/09**	**091030L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	81	81	59-125	48-136	0	0-15	
2-Chlorophenol	81	81	60-114	51-123	0	0-15	
1,4-Dichlorobenzene	85	85	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	89	89	64-136	52-148	0	0-15	
1,2,4-Trichlorobenzene	82	82	58-118	48-128	0	0-18	
Naphthalene	74	73	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	84	83	61-121	51-131	1	0-14	
Dimethyl Phthalate	70	70	0-112	0-131	1	0-20	
Acenaphthylene	71	71	33-145	14-164	0	0-20	
Acenaphthene	78	78	59-125	48-136	0	0-15	
4-Nitrophenol	80	78	38-152	19-171	2	0-31	
2,4-Dinitrotoluene	76	76	51-141	36-156	0	0-16	
Fluorene	77	77	59-121	49-131	0	0-20	
Pentachlorophenol	67	67	38-116	25-129	0	0-20	
Pyrene	86	85	51-141	36-156	1	0-14	
Butyl Benzyl Phthalate	76	76	0-152	0-177	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2124
Preparation: EPA 3545
Method: EPA 8141B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-465-16	**Solid**	**GC 26**	**10/30/09**	**11/03/09**	**091030L11**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Azinphos Methyl	102	102	30-130	13-147	0	0-30	
Bolstar	88	88	30-130	13-147	0	0-30	
Chlorpyrifos	89	89	30-130	13-147	0	0-30	
Coumaphos	96	96	30-130	13-147	0	0-30	
Diazinon	96	96	30-130	13-147	0	0-30	
Disulfoton	95	95	30-130	13-147	0	0-30	
Ethoprop	99	99	30-130	13-147	0	0-30	
Fensulfothion	87	87	30-130	13-147	0	0-30	
Fenthion	94	94	30-130	13-147	0	0-30	
Merphos	73	73	30-130	13-147	0	0-30	
Methyl Parathion	95	95	30-130	13-147	0	0-30	
Phorate	130	130	30-130	13-147	0	0-30	
Ronnel	89	89	30-130	13-147	0	0-30	
Stirophos	86	86	30-130	13-147	0	0-30	
Tokuthion	89	89	30-130	13-147	0	0-30	
Trichloronate	95	95	30-130	13-147	0	0-30	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-10-2124
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-2,310	**Solid**	**GC/MS JJ**	**10/28/09**	**10/28/09**	**091028L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	93	85-115	80-120	6	0-11	
Carbon Tetrachloride	101	93	68-134	57-145	8	0-14	
Chlorobenzene	100	94	83-119	77-125	6	0-9	
1,2-Dibromoethane	100	97	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	92	88	57-135	44-148	4	0-10	
1,1-Dichloroethene	98	92	72-120	64-128	6	0-10	
Ethylbenzene	104	97	80-120	73-127	7	0-20	
Toluene	102	96	67-127	57-137	6	0-10	
Trichloroethene	102	98	88-112	84-116	5	0-9	
Vinyl Chloride	85	80	57-129	45-141	6	0-16	
Methyl-t-Butyl Ether (MTBE)	88	86	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	92	95	31-145	12-164	4	0-23	
Diisopropyl Ether (DIPE)	100	96	74-128	65-137	4	0-10	
Ethyl-t-Butyl Ether (ETBE)	90	86	77-125	69-133	5	0-9	
Tert-Amyl-Methyl Ether (TAME)	87	85	81-123	74-130	3	0-10	
Ethanol	84	88	44-152	26-170	5	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-2124

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00007

Project Location PG&E Oakley

Laboratory Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation KB - ARCADIS

~~2168~~

09-10-2124

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	SVOCs (USEPA 8270C)	Low Level VOCs (USEPA 8260 B/5035)	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/614)	PP Metals (USEPA 6010B/7470/7471)	Dioxins + Furans (USEPA 8280)	PCBs (USEPA 8082)	Remarks	Total
RAD MW-1 @ 5 ft	S	10/26/09 1130	1	X	X	X	X	X	X	X	X	X		6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 6

Relinquished by: [signature]	Organization: ARCADIS	Date 10/27/09	Time 0814	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/27/09	Time 0814	
Relinquished by: [signature] to GSD	Organization: CEL	Date 10/27/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature] CEL	Organization: CEL	Date 10/28/09	Time 0830	

Special Instructions/Remarks:

650512909023

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2 1 ~~8~~ ~~8~~ 2 4 8

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10 / 28 / 09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** M

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® ☑ 2ozPJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** NC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** Q

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** Q

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

November 17, 2009

Subcontract analyses are reported as a stand-alone report.

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-10-2124**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/28/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

FRONTIER
ANALYTICAL LABORATORY

November 17, 2009

FAL Project ID: 5814

Ms. Danielle Gonsman
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Ms. Gonsman,

Attached are the results for Frontier Analytical Laboratory project **5814**. This corresponds to your project number **09-10-2124**. The one soil sample received on 10/29/2009 was extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The Toxic Equivalents (TEQ) for your samples was calculated using the 2005 World Health Organization's toxic equivalency factors. Calscience requested a turnaround time of fifteen business days for project **5814**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The attached results are specifically for the sample referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full. This report has been emailed to you as a PDF file along with an electronic disk deliverable (EDD). A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **5814**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5814**

Received on: **10/29/2009** Project Due: **11/20/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5814-001-SA	0	09-10-2124	RAD MW-1 @ 5 ft	EPA 8290 D/F	Soil	10/26/2009	11:30 am	11/25/2009

FAL Sample ID	Notes
5814-001-SA	'Using sample ID from COC for our tracking purposes. '

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5814-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X1880

Date Extracted: 11-11-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-14-2009
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.0989		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.196		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.255		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.351		-	0.0680	Total TCDD	ND	0.0989	
1,2,3,7,8,9-HxCDD	ND	0.331		-	0.0666	Total PeCDD	ND	0.196	
1;2,3,4,6,7,8-HpCDD	ND	0.559		-	0.0927	Total HxCDD	ND	0.351	
OCDD	ND	2.11		-	0.272	Total HpCDD	ND	0.559	
2,3,7,8-TCDF	ND	0.0874		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.138		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.166		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.164		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.178		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.162		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.280		-	0.0493	Total TCDF	ND	0.0874	
1,2,3,4,6,7,8-HpCDF	ND	0.284		-	0.0404	Total PeCDF	ND	0.166	
1,2,3,4,7,8,9-HpCDF	ND	0.390		-	0.0469	Total HxCDF	ND	0.280	
OCDF	ND	0.635		-	0.177	Total HpCDF	ND	0.390	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	86.1	40.0 - 135	
13C-1,2,3,7,8-PeCDD	89.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	64.8	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	69.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	67.6	40.0 - 135	
13C-OCDD	54.3	40.0 - 135	
13C-2,3,7,8-TCDF	86.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	78.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	79.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	68.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	71.7	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.1	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	67.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	63.2	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	66.2	40.0 - 135	
13C-OCDF	58.9	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	81.7	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/16/09

Reviewed By: [signature]
Date: 11/16/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5814-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X1880

Date Extracted: 11-11-2009
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: ng/ml

Acquired: 11-14-2009
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	9.11	7.00 - 13.0	
1,2,3,7,8-PeCDD	48.5	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	46.9	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	47.3	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	46.8	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	43.1	35.0 - 65.0	
OCDD	88.0	70.0 - 130	
2,3,7,8-TCDF	8.22	7.00 - 13.0	
1,2,3,7,8-PeCDF	42.7	35.0 - 65.0	
2,3,4,7,8-PeCDF	42.3	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	42.8	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	42.9	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	41.4	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	41.1	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	42.2	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	42.4	35.0 - 65.0	
OCDF	80.1	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	62.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	63.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	50.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	51.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	51.6	40.0 - 135	
13C-OCDD	41.4	40.0 - 135	
13C-2,3,7,8-TCDF	63.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	56.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	56.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	51.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	53.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	51.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	52.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	46.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	50.8	40.0 - 135	
13C-OCDF	43.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	65.2	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 11/16/09

Reviewed By: [signature]
Date: 11/16/09

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 5814-001-SA
Client ID: RAD MW-1 @ 5 ft
Matrix: Soil
Batch No: X1880

Date Extracted: 11-11-2009
Date Received: 10-29-2009
Amount: 5.07 g
% Solids: 90.91

ICal: PCDDFAL3-8-13-09
GC Column: DB5
Units: pg/g

Acquired: 11-14-2009
2005 WHO TEQ: 0.0128

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.126		-	0.0252				
1,2,3,7,8-PeCDD	ND	0.232		-	0.0457				
1,2,3,4,7,8-HxCDD	ND	0.233		-	0.0496				
1,2,3,6,7,8-HxCDD	ND	0.288		-	0.0680	Total TCDD	ND	0.126	
1,2,3,7,8,9-HxCDD	ND	0.286		-	0.0666	Total PeCDD	ND	0.232	
1,2,3,4,6,7,8-HpCDD	1.12	-	J	0.0112	0.0927	Total HxCDD	ND	0.288	
OCDD	5.28	-	J	0.00158	0.272	Total HpCDD	2.11	-	J
2,3,7,8-TCDF	ND	0.0813		-	0.0252				
1,2,3,7,8-PeCDF	ND	0.112		-	0.0365				
2,3,4,7,8-PeCDF	ND	0.141		-	0.0486				
1,2,3,4,7,8-HxCDF	ND	0.164		-	0.0267				
1,2,3,6,7,8-HxCDF	ND	0.176		-	0.0289				
2,3,4,6,7,8-HxCDF	ND	0.162		-	0.0298				
1,2,3,7,8,9-HxCDF	ND	0.272		-	0.0493	Total TCDF	ND	0.0813	
1,2,3,4,6,7,8-HpCDF	ND	0.309		-	0.0404	Total PeCDF	ND	0.141	
1,2,3,4,7,8,9-HpCDF	ND	0.375		-	0.0469	Total HxCDF	ND	0.272	
OCDF	ND	0.783		-	0.177	Total HpCDF	ND	0.375	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	66.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	70.4	40.0 - 135	
13C-OCDD	57.1	40.0 - 135	
13C-2,3,7,8-TCDF	92.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	82.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	83.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	70.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	73.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	69.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	71.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.0	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	72.6	40.0 - 135	
13C-OCDF	61.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	92.9	50.0 - 150

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [illegible]
Date: 11/16/09

Reviewed By: [illegible]
Date: 11/16/09

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
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Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 5814
Temperature: 6 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Calscience Environmental Laboratories	Company Name: Same	FAL Quote #:
Contact Name: Danielle Gonsman	Contact Name:	P.O. #:
Address: 7440 Lincoln Way, Garden Grove, CA 92841	Address:	Project #: 09-10-2124
Phone: 714-895-5494 Fax: 714-894-7501	Phone: Fax:	Project Name: RC000746.0002.0006
Email: dgonsman@calscience.com	Email:	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION

Report Level: ☑ I/II ☐ III ☐ IV

☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)

☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	RAD MW-1 @ 5 ft	10-26-09	1130	S	1		X									D/F
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
ALAN B. KEMP TO GSO	10-28-09	1730	KZIPP	10-29-09	10:36

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5814**

Client:	Calscience
Client Project ID:	09-10-2124
Date Received:	10/29/2009
Time Received:	10:36 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	1
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	512916809
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/25/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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FRONTIER ANALYTICAL LABORATORY

* FAL must agree with price and RUSH TAT

REPORT INFORMATION

Report Level: ☑ II ☐ III ☐ IV

☐ EDD ☐ FAL Basic ☐ Geotracker
☐ Other: ____ ☐ Custom: Contact FAL

REPORT DISTRIBUTION (email only is preferred)

☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

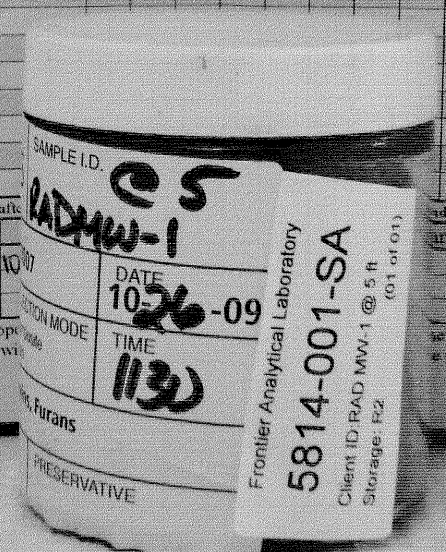
CONGENERS
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl_4-Cl_8)

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	RAD MW-1 @ 5 ft	10-26-09	1130	S	1		X									D/F
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Samples will be disposed of 90 days aft... ...ed agreed upon in writing.

Relinquished by: (Signature and Printed Name) ... and Printed Name) Date
Alan B. Kemp to OSD 10-27 ... KZIPD 10-29-09

Client understands that all terms described in the propo... ...e current FAL price schedules will be followed
FAL reserves the rights to terminate its service or wh... ...e terms of the project have been broken.



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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00007

Project Location PG&E Oakley

Laboratory Cal Science

Project Manager Kathy Brandt

Sampler(s)/Affiliation KB - ARCADIS

~~2168~~

09-10-2124

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	SVOCs (USEPA 8270C)	Low Level VOCs (USEPA 8260 B/5035)	TEL (DHS LUFT)	Organochlorine Pesticides (USEPA 8081)	Organophosphorus Pesticides (USEPA 8141/6014)	PP Metals (USEPA 6010B/7470/7471)	Dioxins + Furans (USEPA 8280)	PCBs (USEPA 8082)	Remarks	Total
RAD MW-1 @ 5 ft	S	10/26/09 1130	1	X	X	X	X	X	X	X	X	X		6

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 6

Relinquished by: [signature]	Organization: ARCADIS	Date 10/27/09	Time 0814	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 10/27/09	Time 0814	
Relinquished by: [signature] to GSD	Organization: CEL	Date 10/27/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature] CEL	Organization: CEL	Date 10/28/09	Time 0830	

Special Instructions/Remarks:

6505129 09023

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-2 1 ~~8~~ ~~8~~ 2 4 8

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 10 / 28 / 09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** M

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® ☑ 2ozPJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** NC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** Q

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** Q

Calscience Environmental Laboratories, Inc.

November 13, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-11-0508**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/6/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 11/06/09
Work Order No: 09-11-0508
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@1ft	**09-11-0508-1-A**	**11/05/09 11:40**	**Solid**	**ICP 5300**	**11/09/09**	**11/09/09 19:25**	**091109L04**

Comment(s): -Mercury was analyzed on 11/9/2009 12:46:35 PM with batch 091109L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.60	0.750	1		Nickel	19.0	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	14.8	0.250	1		Thallium	ND	0.750	1	
Copper	6.58	0.500	1		Zinc	20.0	1.00	1	
Lead	4.76	0.500	1						

SB-69@5ft	**09-11-0508-2-A**	**11/05/09 11:55**	**Solid**	**ICP 5300**	**11/09/09**	**11/09/09 19:29**	**091109L04**

Comment(s): -Mercury was analyzed on 11/9/2009 12:48:47 PM with batch 091109L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	2.45	0.750	1		Nickel	20.1	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	15.6	0.250	1		Thallium	ND	0.750	1	
Copper	7.86	0.500	1		Zinc	19.1	1.00	1	
Lead	5.96	0.500	1						

Method Blank	**099-04-007-6,643**	**N/A**	**Solid**	**Mercury**	**11/09/09**	**11/09/09 10:51**	**091109L02**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-12,905**	**N/A**	**Solid**	**ICP 5300**	**11/09/09**	**11/09/09 18:28**	**091109L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 3550B
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@1ft	**09-11-0508-1-B**	**11/05/09 11:40**	**Solid**	**GC 43**	**11/07/09**	**11/08/09 01:29**	**091107B01**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

SB-69@5ft	**09-11-0508-2-B**	**11/05/09 11:55**	**Solid**	**GC 43**	**11/07/09**	**11/08/09 01:49**	**091107B01**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	61-145	

Method Blank	**099-12-025-909**	**N/A**	**Solid**	**GC 43**	**11/07/09**	**11/07/09 18:23**	**091107B01**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	61-145	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 3545
Method:	EPA 8270C SIM PAHs
Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@1ft	**09-11-0508-1-A**	**11/05/09 11:40**	**Solid**	**GC/MS AAA**	**11/10/09**	**11/12/09 23:44**	**091110L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Pyrene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
1-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Anthracene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	58	14-146		Nitrobenzene-d5	60	18-162	
p-Terphenyl-d14	46	34-148					

SB-69@5ft	**09-11-0508-2-A**	**11/05/09 11:55**	**Solid**	**GC/MS AAA**	**11/10/09**	**11/12/09 23:22**	**091110L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Pyrene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
1-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Anthracene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	143	14-146		Nitrobenzene-d5	126	18-162	
p-Terphenyl-d14	55	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-06-010-395**	**N/A**	**Solid**	**GC/MS AAA**	**11/10/09**	**11/12/09 02:29**	**091110L17**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.020	1		Pyrene	ND	0.020	1	
2-Methylnaphthalene	ND	0.020	1		Benzo (a) Anthracene	ND	0.020	1	
1-Methylnaphthalene	ND	0.020	1		Chrysene	ND	0.020	1	
Acenaphthylene	ND	0.020	1		Benzo (k) Fluoranthene	ND	0.020	1	
Acenaphthene	ND	0.020	1		Benzo (b) Fluoranthene	ND	0.020	1	
Fluorene	ND	0.020	1		Benzo (a) Pyrene	ND	0.020	1	
Phenanthrene	ND	0.020	1		Indeno (1,2,3-c,d) Pyrene	ND	0.020	1	
Anthracene	ND	0.020	1		Dibenz (a,h) Anthracene	ND	0.020	1	
Fluoranthene	ND	0.020	1		Benzo (g,h,i) Perylene	ND	0.020	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	51	14-146		Nitrobenzene-d5	49	18-162	
p-Terphenyl-d14	44	34-148					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@1ft	**09-11-0508-1-B**	**11/05/09 11:40**	**Solid**	**GC 31**	**11/09/09**	**11/11/09 14:12**	**091109L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	50-130		2,4,5,6-Tetrachloro-m-Xylene	76	50-130	

SB-69@5ft	**09-11-0508-2-B**	**11/05/09 11:55**	**Solid**	**GC 31**	**11/09/09**	**11/11/09 17:04**	**091109L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	50-130		2,4,5,6-Tetrachloro-m-Xylene	80	50-130	

Method Blank	**099-12-535-813**	**N/A**	**Solid**	**GC 31**	**11/09/09**	**11/11/09 13:53**	**091109L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	50-130		2,4,5,6-Tetrachloro-m-Xylene	104	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@1ft	**09-11-0508-1-A**	**11/05/09 11:40**	**Solid**	**GC/MS SS**	**11/11/09**	**11/11/09 22:49**	**091111L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Aniline	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Phenol	ND	0.50	1		Dimethyl Phthalate	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		3-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
1,3-Dichlorobenzene	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
3/4-Methylphenol	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		Azobenzene	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Nitrobenzene	ND	2.5	1		N-Nitrosodiphenylamine	ND	0.50	1	
Isophorone	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
2-Nitrophenol	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Pentachlorophenol	ND	2.5	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Di-n-Butyl Phthalate	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	53	42-120		Phenol-d6	56	46-118	
Nitrobenzene-d5	55	42-150		2-Fluorobiphenyl	50	38-134	
2,4,6-Tribromophenol	41	36-132		p-Terphenyl-d14	56	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: PG&E Radback, Oakley			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@5ft	**09-11-0508-2-A**	**11/05/09 11:55**	**Solid**	**GC/MS SS**	**11/11/09**	**11/11/09 23:15**	**091111L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Aniline	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Phenol	ND	0.50	1		Dimethyl Phthalate	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		3-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
1,3-Dichlorobenzene	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
3/4-Methylphenol	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		Azobenzene	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Nitrobenzene	ND	2.5	1		N-Nitrosodiphenylamine	ND	0.50	1	
Isophorone	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
2-Nitrophenol	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Pentachlorophenol	ND	2.5	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Di-n-Butyl Phthalate	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	42-120		Phenol-d6	94	46-118	
Nitrobenzene-d5	89	42-150		2-Fluorobiphenyl	79	38-134	
2,4,6-Tribromophenol	74	36-132		p-Terphenyl-d14	96	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-989**	**N/A**	**Solid**	**GC/MS SS**	**11/11/09**	**11/12/09 11:56**	**091111L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Aniline	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Phenol	ND	0.50	1		Dimethyl Phthalate	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		3-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
1,3-Dichlorobenzene	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
3/4-Methylphenol	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		Azobenzene	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Nitrobenzene	ND	2.5	1		N-Nitrosodiphenylamine	ND	0.50	1	
Isophorone	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
2-Nitrophenol	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Pentachlorophenol	ND	2.5	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Di-n-Butyl Phthalate	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	42-120		Phenol-d6	93	46-118	
Nitrobenzene-d5	93	42-150		2-Fluorobiphenyl	87	38-134	
2,4,6-Tribromophenol	68	36-132		p-Terphenyl-d14	91	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@1ft	**09-11-0508-1-E**	**11/05/09 11:40**	**Solid**	**GC/MS RR**	**11/05/09**	**11/07/09 19:21**	**091107L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	55	49	0.977		c-1,3-Dichloropropene	ND	0.98	0.977	
Benzene	ND	0.98	0.977		t-1,3-Dichloropropene	ND	2.0	0.977	
Bromobenzene	ND	0.98	0.977		Ethylbenzene	ND	0.98	0.977	
Bromochloromethane	ND	2.0	0.977		2-Hexanone	ND	20	0.977	
Bromodichloromethane	ND	0.98	0.977		Isopropylbenzene	ND	0.98	0.977	
Bromoform	ND	4.9	0.977		p-Isopropyltoluene	ND	0.98	0.977	
Bromomethane	ND	20	0.977		Methylene Chloride	ND	9.8	0.977	
2-Butanone	ND	20	0.977		4-Methyl-2-Pentanone	ND	20	0.977	
n-Butylbenzene	ND	0.98	0.977		Naphthalene	ND	9.8	0.977	
sec-Butylbenzene	ND	0.98	0.977		n-Propylbenzene	ND	2.0	0.977	
tert-Butylbenzene	ND	0.98	0.977		Styrene	ND	0.98	0.977	
Carbon Disulfide	ND	9.8	0.977		1,1,1,2-Tetrachloroethane	ND	0.98	0.977	
Carbon Tetrachloride	ND	0.98	0.977		1,1,2,2-Tetrachloroethane	ND	2.0	0.977	
Chlorobenzene	ND	0.98	0.977		Tetrachloroethene	ND	0.98	0.977	
Chloroethane	ND	2.0	0.977		Toluene	ND	0.98	0.977	
Chloroform	ND	0.98	0.977		1,2,3-Trichlorobenzene	ND	2.0	0.977	
Chloromethane	ND	20	0.977		1,2,4-Trichlorobenzene	ND	2.0	0.977	
2-Chlorotoluene	ND	0.98	0.977		1,1,1-Trichloroethane	ND	0.98	0.977	
4-Chlorotoluene	ND	0.98	0.977		1,1,2-Trichloroethane	ND	0.98	0.977	
Dibromochloromethane	ND	2.0	0.977		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.8	0.977	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.977		Trichloroethene	ND	2.0	0.977	
1,2-Dibromoethane	ND	0.98	0.977		1,2,3-Trichloropropane	ND	2.0	0.977	
Dibromomethane	ND	0.98	0.977		1,2,4-Trimethylbenzene	ND	2.0	0.977	
1,2-Dichlorobenzene	ND	0.98	0.977		Trichlorofluoromethane	ND	9.8	0.977	
1,3-Dichlorobenzene	ND	0.98	0.977		1,3,5-Trimethylbenzene	ND	2.0	0.977	
1,4-Dichlorobenzene	ND	0.98	0.977		Vinyl Acetate	ND	9.8	0.977	
Dichlorodifluoromethane	ND	2.0	0.977		Vinyl Chloride	ND	0.98	0.977	
1,1-Dichloroethane	ND	0.98	0.977		p/m-Xylene	ND	2.0	0.977	
1,2-Dichloroethane	ND	0.98	0.977		o-Xylene	ND	0.98	0.977	
1,1-Dichloroethene	ND	0.98	0.977		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.977	
c-1,2-Dichloroethene	ND	0.98	0.977		Tert-Butyl Alcohol (TBA)	ND	20	0.977	
t-1,2-Dichloroethene	ND	0.98	0.977		Diisopropyl Ether (DIPE)	ND	0.98	0.977	
1,2-Dichloropropane	ND	0.98	0.977		Ethyl-t-Butyl Ether (ETBE)	ND	0.98	0.977	
1,3-Dichloropropane	ND	0.98	0.977		Tert-Amyl-Methyl Ether (TAME)	ND	0.98	0.977	
2,2-Dichloropropane	ND	4.9	0.977		Ethanol	ND	490	0.977	
1,1-Dichloropropene	ND	2.0	0.977						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	71-137		1,2-Dichloroethane-d4	107	58-160	
Toluene-d8	101	87-111		1,4-Bromofluorobenzene	97	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-69@5ft	**09-11-0508-2-E**	**11/05/09 11:55**	**Solid**	**GC/MS RR**	**11/05/09**	**11/07/09 19:49**	**091107L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.928		c-1,3-Dichloropropene	ND	0.93	0.928	
Benzene	ND	0.93	0.928		t-1,3-Dichloropropene	ND	1.9	0.928	
Bromobenzene	ND	0.93	0.928		Ethylbenzene	ND	0.93	0.928	
Bromochloromethane	ND	1.9	0.928		2-Hexanone	ND	19	0.928	
Bromodichloromethane	ND	0.93	0.928		Isopropylbenzene	ND	0.93	0.928	
Bromoform	ND	4.6	0.928		p-Isopropyltoluene	ND	0.93	0.928	
Bromomethane	ND	19	0.928		Methylene Chloride	ND	9.3	0.928	
2-Butanone	ND	19	0.928		4-Methyl-2-Pentanone	ND	19	0.928	
n-Butylbenzene	ND	0.93	0.928		Naphthalene	ND	9.3	0.928	
sec-Butylbenzene	ND	0.93	0.928		n-Propylbenzene	ND	1.9	0.928	
tert-Butylbenzene	ND	0.93	0.928		Styrene	ND	0.93	0.928	
Carbon Disulfide	ND	9.3	0.928		1,1,1,2-Tetrachloroethane	ND	0.93	0.928	
Carbon Tetrachloride	ND	0.93	0.928		1,1,2,2-Tetrachloroethane	ND	1.9	0.928	
Chlorobenzene	ND	0.93	0.928		Tetrachloroethene	ND	0.93	0.928	
Chloroethane	ND	1.9	0.928		Toluene	ND	0.93	0.928	
Chloroform	ND	0.93	0.928		1,2,3-Trichlorobenzene	ND	1.9	0.928	
Chloromethane	ND	19	0.928		1,2,4-Trichlorobenzene	ND	1.9	0.928	
2-Chlorotoluene	ND	0.93	0.928		1,1,1-Trichloroethane	ND	0.93	0.928	
4-Chlorotoluene	ND	0.93	0.928		1,1,2-Trichloroethane	ND	0.93	0.928	
Dibromochloromethane	ND	1.9	0.928		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.928	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.928		Trichloroethene	ND	1.9	0.928	
1,2-Dibromoethane	ND	0.93	0.928		1,2,3-Trichloropropane	ND	1.9	0.928	
Dibromomethane	ND	0.93	0.928		1,2,4-Trimethylbenzene	ND	1.9	0.928	
1,2-Dichlorobenzene	ND	0.93	0.928		Trichlorofluoromethane	ND	9.3	0.928	
1,3-Dichlorobenzene	ND	0.93	0.928		1,3,5-Trimethylbenzene	ND	1.9	0.928	
1,4-Dichlorobenzene	ND	0.93	0.928		Vinyl Acetate	ND	9.3	0.928	
Dichlorodifluoromethane	ND	1.9	0.928		Vinyl Chloride	ND	0.93	0.928	
1,1-Dichloroethane	ND	0.93	0.928		p/m-Xylene	ND	1.9	0.928	
1,2-Dichloroethane	ND	0.93	0.928		o-Xylene	ND	0.93	0.928	
1,1-Dichloroethene	ND	0.93	0.928		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.928	
c-1,2-Dichloroethene	ND	0.93	0.928		Tert-Butyl Alcohol (TBA)	ND	19	0.928	
t-1,2-Dichloroethene	ND	0.93	0.928		Diisopropyl Ether (DIPE)	ND	0.93	0.928	
1,2-Dichloropropane	ND	0.93	0.928		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.928	
1,3-Dichloropropane	ND	0.93	0.928		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.928	
2,2-Dichloropropane	ND	4.6	0.928		Ethanol	ND	460	0.928	
1,1-Dichloropropene	ND	1.9	0.928						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	105	58-160	
Toluene-d8	100	87-111		1,4-Bromofluorobenzene	97	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/06/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-0508
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Radback, Oakley			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-2,394**	**N/A**	**Solid**	**GC/MS RR**	**11/07/09**	**11/07/09 12:58**	**091107L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		c-1,3-Dichloropropene	ND	5.0	1	
Benzene	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromobenzene	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		2-Hexanone	ND	50	1	
Bromodichloromethane	ND	5.0	1		Isopropylbenzene	ND	5.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
Bromomethane	ND	25	1		Methylene Chloride	ND	50	1	
2-Butanone	ND	50	1		4-Methyl-2-Pentanone	ND	50	1	
n-Butylbenzene	ND	5.0	1		Naphthalene	ND	50	1	
sec-Butylbenzene	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
tert-Butylbenzene	ND	5.0	1		Styrene	ND	5.0	1	
Carbon Disulfide	ND	50	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Carbon Tetrachloride	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Tetrachloroethene	ND	5.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	5.0	1	
Chloroform	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Chloromethane	ND	25	1		1,2,4-Trichlorobenzene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		1,1,1-Trichloroethane	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromochloromethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		Trichloroethene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,3-Dichlorobenzene	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		Vinyl Acetate	ND	50	1	
Dichlorodifluoromethane	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
1,1-Dichloroethane	ND	5.0	1		p/m-Xylene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		o-Xylene	ND	5.0	1	
1,1-Dichloroethene	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
t-1,2-Dichloroethene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
1,2-Dichloropropane	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
1,3-Dichloropropane	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	250	1	
1,1-Dichloropropene	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	111	71-137		1,2-Dichloroethane-d4	110	58-160	
Toluene-d8	101	87-111		1,4-Bromofluorobenzene	92	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 3050B
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0351-29	**Solid**	**ICP 5300**	**11/09/09**	**11/09/09**	**091109S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	60	64	50-115	6	0-20	
Arsenic	104	107	75-125	2	0-20	
Beryllium	106	109	75-125	3	0-20	
Cadmium	103	105	75-125	2	0-20	
Chromium	102	104	75-125	2	0-20	
Copper	108	111	75-125	3	0-20	
Lead	105	109	75-125	4	0-20	
Nickel	105	110	75-125	4	0-20	
Selenium	96	100	75-125	4	0-20	
Silver	103	109	75-125	6	0-20	
Thallium	93	98	75-125	5	0-20	
Zinc	50	53	75-125	2	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 3050B
Method:	EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-11-0351-29	**Solid**	**ICP 5300**	**11/09/09**	**11/09/09**	**091109S04**

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	96	92	75-125	4	0-20	
Arsenic	99	102	75-125	2	0-20	
Beryllium	103	105	75-125	2	0-20	
Cadmium	102	102	75-125	0	0-20	
Chromium	100	101	75-125	1	0-20	
Copper	107	107	75-125	0	0-20	
Lead	105	106	75-125	1	0-20	
Nickel	104	106	75-125	2	0-20	
Selenium	98	101	75-125	3	0-20	
Silver	102	102	75-125	0	0-20	
Thallium	94	95	75-125	1	0-20	
Zinc	67	64	75-125	2	0-20	5

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 3550B
Method:	EPA 8015B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0608-9	**Solid**	**GC 43**	**11/07/09**	**11/07/09**	**091107S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	90	95	64-130	5	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0351-29	**Solid**	**Mercury**	**11/09/09**	**11/09/09**	**091109S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	95	98	71-137	4	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 11/06/09
Work Order No: 09-11-0508
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0503-22	**Solid**	**GC/MS AAA**	**11/10/09**	**11/12/09**	**091110S17**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	75	77	21-133	2	0-25	
2-Methylnaphthalene	73	70	21-140	4	0-25	
1-Methylnaphthalene	72	67	40-160	7	0-25	
Acenaphthylene	60	58	33-145	2	0-25	
Acenaphthene	65	66	40-106	2	0-25	
Fluorene	62	60	59-121	3	0-25	
Phenanthrene	54	49	54-120	10	0-25	3
Anthracene	56	50	27-133	10	0-25	
Fluoranthene	59	49	26-137	18	0-25	
Pyrene	78	53	6-156	38	0-25	4
Benzo (a) Anthracene	69	59	33-143	16	0-25	
Chrysene	63	54	17-168	16	0-25	
Benzo (k) Fluoranthene	70	58	24-159	18	0-25	
Benzo (b) Fluoranthene	72	52	24-159	31	0-25	4
Benzo (a) Pyrene	55	48	17-163	14	0-25	
Indeno (1,2,3-c,d) Pyrene	49	39	0-171	23	0-25	
Dibenz (a,h) Anthracene	51	45	0-227	13	0-25	
Benzo (g,h,i) Perylene	55	48	0-219	14	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-69@1ft	**Solid**	**GC 31**	**11/09/09**	**11/11/09**	**091109S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	83	102	50-135	20	0-20	
Aroclor-1260	98	93	50-135	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/06/09
Work Order No:	09-11-0508
Preparation:	EPA 3545
Method:	EPA 8270C

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0727-1	**Solid**	**GC/MS SS**	**11/11/09**	**11/12/09**	**091111S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	108	106	57-123	2	0-16	
2-Chlorophenol	107	106	57-111	1	0-17	
1,4-Dichlorobenzene	103	106	49-127	3	0-20	
N-Nitroso-di-n-propylamine	122	119	54-144	2	0-17	
1,2,4-Trichlorobenzene	89	100	42-132	12	0-20	
Naphthalene	82	91	50-150	10	0-20	
4-Chloro-3-Methylphenol	98	105	50-128	7	0-17	
Dimethyl Phthalate	77	84	50-150	9	0-20	
Acenaphthylene	77	85	50-150	10	0-20	
Acenaphthene	83	93	49-133	11	0-18	
4-Nitrophenol	73	84	30-144	13	0-21	
2,4-Dinitrotoluene	76	86	50-128	11	0-18	
Fluorene	83	92	50-150	11	0-20	
Pentachlorophenol	67	76	29-113	13	0-22	
Pyrene	75	78	47-149	4	0-20	
Butyl Benzyl Phthalate	71	72	50-150	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-0508
Preparation: EPA 3050B
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-12,905	**Solid**	**ICP 5300**	**11/09/09**	**11/09/09**	**091109L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	103	98	80-120	73-127	5	0-20	
Arsenic	104	101	80-120	73-127	3	0-20	
Beryllium	101	97	80-120	73-127	4	0-20	
Cadmium	105	101	80-120	73-127	4	0-20	
Chromium	102	98	80-120	73-127	4	0-20	
Copper	105	101	80-120	73-127	4	0-20	
Lead	108	104	80-120	73-127	4	0-20	
Nickel	110	106	80-120	73-127	4	0-20	
Selenium	96	94	80-120	73-127	3	0-20	
Silver	96	92	80-120	73-127	3	0-20	
Thallium	103	100	80-120	73-127	3	0-20	
Zinc	108	103	80-120	73-127	4	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-11-0508
Preparation:	EPA 3550B
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-909	**Solid**	**GC 43**	**11/07/09**	**11/07/09**	**091107B01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	92	93	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-11-0508
Preparation:	EPA 7471A Total
Method:	EPA 7471A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-6,643	**Solid**	**Mercury**	**11/09/09**	**11/09/09**	**091109L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	98	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-0508
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-010-395	**Solid**	**GC/MS AAA**	**11/10/09**	**11/12/09**	**091110L17**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	69	69	21-133	2-152	0	0-25	
2-Methylnaphthalene	67	67	21-140	1-160	0	0-25	
1-Methylnaphthalene	67	68	40-160	20-180	1	0-25	
Acenaphthylene	61	61	33-145	14-164	0	0-25	
Acenaphthene	67	67	48-108	38-118	0	0-11	
Fluorene	65	64	59-121	49-131	2	0-25	
Phenanthrene	56	55	54-120	43-131	2	0-25	
Anthracene	62	56	27-133	9-151	10	0-25	
Fluoranthene	57	56	26-137	8-156	1	0-25	
Pyrene	59	57	28-106	15-119	3	0-16	
Benzo (a) Anthracene	61	57	33-143	15-161	6	0-25	
Chrysene	63	60	17-168	0-193	5	0-25	
Benzo (k) Fluoranthene	66	65	24-159	2-182	1	0-25	
Benzo (b) Fluoranthene	58	56	24-159	2-182	3	0-25	
Benzo (a) Pyrene	56	55	17-163	0-187	1	0-25	
Indeno (1,2,3-c,d) Pyrene	46	45	0-171	0-200	2	0-25	
Dibenz (a,h) Anthracene	49	46	0-219	0-256	7	0-25	
Benzo (g,h,i) Perylene	50	50	0-227	0-265	0	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-11-0508
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-813	**Solid**	**GC 31**	**11/09/09**	**11/11/09**	**091109L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	94	109	50-135	15	0-20	
Aroclor-1260	86	80	50-135	7	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-0508
Preparation: EPA 3545
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-989	**Solid**	**GC/MS SS**	**11/11/09**	**11/12/09**	**091111L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	84	84	59-125	48-136	0	0-15	
2-Chlorophenol	82	82	60-114	51-123	0	0-15	
1,4-Dichlorobenzene	89	89	61-121	51-131	0	0-21	
N-Nitroso-di-n-propylamine	87	87	64-136	52-148	0	0-15	
1,2,4-Trichlorobenzene	88	89	58-118	48-128	1	0-18	
Naphthalene	81	82	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	87	88	61-121	51-131	1	0-14	
Dimethyl Phthalate	82	82	0-112	0-131	0	0-20	
Acenaphthylene	78	78	33-145	14-164	1	0-20	
Acenaphthene	87	88	59-125	48-136	1	0-15	
4-Nitrophenol	86	83	38-152	19-171	4	0-31	
2,4-Dinitrotoluene	87	86	51-141	36-156	1	0-16	
Fluorene	90	91	59-121	49-131	0	0-20	
Pentachlorophenol	66	64	38-116	25-129	3	0-20	
Pyrene	90	93	51-141	36-156	3	0-14	
Butyl Benzyl Phthalate	88	90	0-152	0-177	2	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-0508
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-2,394	**Solid**	**GC/MS RR**	**11/07/09**	**11/07/09**	**091107L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	102	85-115	80-120	1	0-11	
Carbon Tetrachloride	92	94	68-134	57-145	2	0-14	
Chlorobenzene	101	101	83-119	77-125	0	0-9	
1,2-Dibromoethane	109	110	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	101	101	57-135	44-148	0	0-10	
1,1-Dichloroethene	95	95	72-120	64-128	0	0-10	
Ethylbenzene	109	108	80-120	73-127	1	0-20	
Toluene	98	100	67-127	57-137	2	0-10	
Trichloroethene	98	99	88-112	84-116	1	0-9	
Vinyl Chloride	98	100	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	106	112	76-124	68-132	5	0-12	
Tert-Butyl Alcohol (TBA)	100	93	31-145	12-164	7	0-23	
Diisopropyl Ether (DIPE)	106	111	74-128	65-137	5	0-10	
Ethyl-t-Butyl Ether (ETBE)	100	106	77-125	69-133	6	0-9	
Tert-Amyl-Methyl Ether (TAME)	95	100	81-123	74-130	4	0-10	
Ethanol	92	78	44-152	26-170	16	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-11-0508

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: RC000746.0002.00007

Project Location: Oakley, CA

Laboratory: Cal science

Project Manager: Kathy Brandt

Sampler(s)/Affiliation: LK

0508

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO (USEPA 8015B)	Low Level VOCs (USEPA 8260B/5035)	SVOCs (USEPA 8270C)	PAHs (USEPA 8270C/8310)	PCBs (USEPA 8082)	PP Metals (USEPA 6010B/7470/7471)	Remarks	Total
SB-109 @1ft	S	11/5/09 1140	1	X	X	X	X	X	X		~~6~~ 5
SB-109 @5ft	S	11/5/09 1155	2	X	X	X	X	X	X		~~6~~ 5

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 10

Relinquished by: [signature]	Organization: ARCADIS	Date 11/5/09	Time 1304	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 11/5/09	Time 1504	
Relinquished by: [signature] to GSO	Organization: CEL	Date 11/5/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 11/6/09	Time 0930	

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

GS051297516 3

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-11-0508

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 11/06/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.8 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** UB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** UB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** WSC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☑8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑2 oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** NC

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** WSC

Calscience Environmental Laboratories, Inc.

November 23, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-11-1220**
Client Reference: PG&E Radback, Oakley

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/14/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 11/14/09
Work Order No: 09-11-1220
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1U	**09-11-1220-1-D**	**11/13/09 10:55**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 12:54**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:00:58 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	0.0316	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0164	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-1L	**09-11-1220-2-D**	**11/13/09 10:40**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 12:57**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:07:46 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	0.0186	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0124	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-1S	**09-11-1220-3-D**	**11/13/09 09:00**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 12:59**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:10:03 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 11/14/09
Work Order No: 09-11-1220
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-4S	**09-11-1220-4-D**	**11/13/09 08:35**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:00**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:12:17 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-2S	**09-11-1220-5-D**	**11/13/09 11:15**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:01**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:14:27 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-3S	**09-11-1220-6-D**	**11/13/09 12:25**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:05**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:16:37 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	0.0117	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 11/14/09
Work Order No: 09-11-1220
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5S	**09-11-1220-7-D**	**11/13/09 12:50**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:06**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:18:49 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-5U	**09-11-1220-8-D**	**11/13/09 12:40**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:07**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:21:00 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	0.0141	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-6S	**09-11-1220-9-D**	**11/13/09 11:55**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:08**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:23:12 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0220	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: 11/14/09
Work Order No: 09-11-1220
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6U	**09-11-1220-10-D**	**11/13/09 11:50**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:09**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:25:25 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	0.0293	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0266	0.0100	1	
Lead	ND	0.0100	1						

RAD-MW-6L	**09-11-1220-11-D**	**11/13/09 11:30**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 13:11**	**091116LA6F**

Comment(s): -Mercury was analyzed on 11/17/2009 1:27:38 PM with batch 091117L02F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Nickel	ND	0.0100	1	
Arsenic	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	ND	0.0100	1		Zinc	0.0433	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-4,431**	**N/A**	**Aqueous**	**Mercury**	**11/17/09**	**11/17/09 12:45**	**091117L02F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-9,884**	**N/A**	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09 12:51**	**091116LA6F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1U	**09-11-1220-1-E**	**11/13/09 10:55**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 21:45**	**091118B07**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	190	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	68-140	

RAD-MW-1L	**09-11-1220-2-E**	**11/13/09 10:40**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 22:04**	**091118B07**

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	230	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	71	68-140	

RAD-MW-1S	**09-11-1220-3-E**	**11/13/09 09:00**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 22:39**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-4S	**09-11-1220-4-E**	**11/13/09 08:35**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 22:58**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	68-140	

RAD-MW-2S	**09-11-1220-5-E**	**11/13/09 11:15**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 23:17**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	68-140	

RAD-MW-3S	**09-11-1220-6-E**	**11/13/09 12:25**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 23:35**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	68-140	

RAD-MW-5S	**09-11-1220-7-E**	**11/13/09 12:50**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 23:53**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5U	**09-11-1220-8-E**	**11/13/09 12:40**	**Aqueous**	**GC 27**	**11/18/09**	**11/20/09 00:12**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	73	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	99	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6S	**09-11-1220-9-E**	**11/13/09 11:55**	**Aqueous**	**GC 27**	**11/18/09**	**11/20/09 00:30**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	94	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6U	**09-11-1220-10-E**	**11/13/09 11:50**	**Aqueous**	**GC 27**	**11/18/09**	**11/20/09 00:48**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6L	**09-11-1220-11-E**	**11/13/09 11:30**	**Aqueous**	**GC 27**	**11/18/09**	**11/20/09 01:07**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-211-1,427**	**N/A**	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09 20:50**	**091118B07**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	108	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1U	**09-11-1220-1-G**	**11/13/09 10:55**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 17:12**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	16	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	63	7-121		Phenol-d6	46	1-127	
Nitrobenzene-d5	92	50-146		2-Fluorobiphenyl	78	42-138	
2,4,6-Tribromophenol	94	41-137		p-Terphenyl-d14	105	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1L	**09-11-1220-2-G**	**11/13/09 10:40**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 17:38**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	15	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	65	7-121		Phenol-d6	47	1-127	
Nitrobenzene-d5	92	50-146		2-Fluorobiphenyl	74	42-138	
2,4,6-Tribromophenol	89	41-137		p-Terphenyl-d14	101	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1S	**09-11-1220-3-F**	**11/13/09 09:00**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 18:04**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	60	7-121		Phenol-d6	43	1-127	
Nitrobenzene-d5	91	50-146		2-Fluorobiphenyl	84	42-138	
2,4,6-Tribromophenol	84	41-137		p-Terphenyl-d14	105	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-4S	**09-11-1220-4-F**	**11/13/09 08:35**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 18:31**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	63	7-121		Phenol-d6	44	1-127	
Nitrobenzene-d5	94	50-146		2-Fluorobiphenyl	87	42-138	
2,4,6-Tribromophenol	87	41-137		p-Terphenyl-d14	112	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-2S	**09-11-1220-5-G**	**11/13/09 11:15**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 18:57**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	59	7-121		Phenol-d6	42	1-127	
Nitrobenzene-d5	87	50-146		2-Fluorobiphenyl	79	42-138	
2,4,6-Tribromophenol	78	41-137		p-Terphenyl-d14	103	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-3S	**09-11-1220-6-F**	**11/13/09 12:25**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 19:23**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	68	7-121		Phenol-d6	48	1-127	
Nitrobenzene-d5	98	50-146		2-Fluorobiphenyl	91	42-138	
2,4,6-Tribromophenol	94	41-137		p-Terphenyl-d14	119	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5S	**09-11-1220-7-G**	**11/13/09 12:50**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 19:49**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	49	7-121		Phenol-d6	35	1-127	
Nitrobenzene-d5	73	50-146		2-Fluorobiphenyl	67	42-138	
2,4,6-Tribromophenol	69	41-137		p-Terphenyl-d14	91	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5U	**09-11-1220-8-G**	**11/13/09 12:40**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 20:15**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	66	7-121		Phenol-d6	49	1-127	
Nitrobenzene-d5	97	50-146		2-Fluorobiphenyl	84	42-138	
2,4,6-Tribromophenol	97	41-137		p-Terphenyl-d14	119	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6S	**09-11-1220-9-F**	**11/13/09 11:55**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 20:41**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	64	7-121		Phenol-d6	45	1-127	
Nitrobenzene-d5	91	50-146		2-Fluorobiphenyl	80	42-138	
2,4,6-Tribromophenol	84	41-137		p-Terphenyl-d14	109	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6U	**09-11-1220-10-H**	**11/13/09 11:50**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 21:07**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	66	7-121		Phenol-d6	48	1-127	
Nitrobenzene-d5	93	50-146		2-Fluorobiphenyl	83	42-138	
2,4,6-Tribromophenol	85	41-137		p-Terphenyl-d14	111	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6L	**09-11-1220-11-H**	**11/13/09 11:30**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 21:33**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	68	7-121		Phenol-d6	49	1-127	
Nitrobenzene-d5	97	50-146		2-Fluorobiphenyl	81	42-138	
2,4,6-Tribromophenol	90	41-137		p-Terphenyl-d14	115	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-003-2,789**	**N/A**	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09 12:23**	**091117L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4,5-Trichlorophenol	ND	10	1	
Aniline	ND	10	1		2-Nitroaniline	ND	10	1	
Phenol	ND	10	1		Dimethyl Phthalate	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		3-Nitroaniline	ND	10	1	
2-Chlorophenol	ND	10	1		2,4-Dinitrophenol	ND	50	1	
1,3-Dichlorobenzene	ND	10	1		4-Nitrophenol	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		Dibenzofuran	ND	10	1	
Benzyl Alcohol	ND	10	1		2,4-Dinitrotoluene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
2-Methylphenol	ND	10	1		Diethyl Phthalate	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		4-Nitroaniline	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		Azobenzene	ND	10	1	
Hexachloroethane	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
Nitrobenzene	ND	25	1		N-Nitrosodiphenylamine	ND	10	1	
Isophorone	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
2-Nitrophenol	ND	10	1		Hexachlorobenzene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Pentachlorophenol	ND	10	1	
Benzoic Acid	ND	50	1		Di-n-Butyl Phthalate	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyridine	ND	10	1	
4-Chloroaniline	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		1,2,4-Trichlorobenzene	ND	10	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	61	7-121		Phenol-d6	44	1-127	
Nitrobenzene-d5	90	50-146		2-Fluorobiphenyl	82	42-138	
2,4,6-Tribromophenol	76	41-137		p-Terphenyl-d14	96	47-173	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1U	**09-11-1220-1-F**	**11/13/09 10:55**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 13:49**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	82	33-144		Nitrobenzene-d5	83	28-139	
p-Terphenyl-d14	66	23-160					

RAD-MW-1L	**09-11-1220-2-F**	**11/13/09 10:40**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 14:11**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	78	33-144		Nitrobenzene-d5	83	28-139	
p-Terphenyl-d14	53	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1S	**09-11-1220-3-G**	**11/13/09 09:00**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 14:33**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	74	33-144		Nitrobenzene-d5	80	28-139	
p-Terphenyl-d14	61	23-160					

RAD-MW-4S	**09-11-1220-4-G**	**11/13/09 08:35**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 14:56**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	74	33-144		Nitrobenzene-d5	77	28-139	
p-Terphenyl-d14	64	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-2S	**09-11-1220-5-F**	**11/13/09 11:15**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 15:18**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	69	33-144		Nitrobenzene-d5	69	28-139	
p-Terphenyl-d14	60	23-160					

RAD-MW-3S	**09-11-1220-6-G**	**11/13/09 12:25**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 15:40**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	77	33-144		Nitrobenzene-d5	79	28-139	
p-Terphenyl-d14	64	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5S	**09-11-1220-7-F**	**11/13/09 12:50**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 16:02**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	78	33-144		Nitrobenzene-d5	80	28-139	
p-Terphenyl-d14	66	23-160					

RAD-MW-5U	**09-11-1220-8-F**	**11/13/09 12:40**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 16:25**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	0.26	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	79	33-144		Nitrobenzene-d5	77	28-139	
p-Terphenyl-d14	66	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 3510C
		Method:	EPA 8270C SIM PAHs
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6S	**09-11-1220-9-G**	**11/13/09 11:55**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 16:47**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	81	33-144		Nitrobenzene-d5	81	28-139	
p-Terphenyl-d14	66	23-160					

RAD-MW-6U	**09-11-1220-10-FG**	**11/13/09 11:50**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 17:09**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	77	33-144		Nitrobenzene-d5	82	28-139	
p-Terphenyl-d14	65	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/14/09
Work Order No:	09-11-1220
Preparation:	EPA 3510C
Method:	EPA 8270C SIM PAHs
Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6L	**09-11-1220-11-FG**	**11/13/09 11:30**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 17:32**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	78	33-144		Nitrobenzene-d5	88	28-139	
p-Terphenyl-d14	62	23-160					

Method Blank	**099-06-008-233**	**N/A**	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09 11:57**	**091116L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.20	1		Pyrene	ND	0.20	1	
2-Methylnaphthalene	ND	0.20	1		Benzo (a) Anthracene	ND	0.20	1	
1-Methylnaphthalene	ND	0.20	1		Chrysene	ND	0.20	1	
Acenaphthylene	ND	0.20	1		Benzo (k) Fluoranthene	ND	0.20	1	
Acenaphthene	ND	0.20	1		Benzo (b) Fluoranthene	ND	0.20	1	
Fluorene	ND	0.20	1		Benzo (a) Pyrene	ND	0.20	1	
Phenanthrene	ND	0.20	1		Indeno (1,2,3-c,d) Pyrene	ND	0.20	1	
Anthracene	ND	0.20	1		Dibenz (a,h) Anthracene	ND	0.20	1	
Fluoranthene	ND	0.20	1		Benzo (g,h,i) Perylene	ND	0.20	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorobiphenyl	73	33-144		Nitrobenzene-d5	70	28-139	
p-Terphenyl-d14	62	23-160					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 1 of 25

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1U	**09-11-1220-1-A**	**11/13/09 10:55**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 04:13**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	1.4	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	0.74	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1U	**09-11-1220-1**		**Aqueous**		**11/16/09**	**11/17/09 04:13**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	109	80-128		Dibromofluoromethane	104	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1L	**09-11-1220-2-A**	**11/13/09 10:40**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 04:41**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	15	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	1.0	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1L	**09-11-1220-2**		**Aqueous**		**11/16/09**	**11/17/09 04:41**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	107	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1S	**09-11-1220-3-A**	**11/13/09 09:00**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 05:10**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-1S	**09-11-1220-3**		**Aqueous**		**11/16/09**	**11/17/09 05:10**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	104	80-128		Dibromofluoromethane	102	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	90	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-4S	**09-11-1220-4-A**	**11/13/09 08:35**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 05:38**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-4S	**09-11-1220-4**		**Aqueous**		**11/16/09**	**11/17/09 05:38**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	80-128		Dibromofluoromethane	101	80-127	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	92	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-2S	**09-11-1220-5-A**	**11/13/09 11:15**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 06:07**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-2S	**09-11-1220-5**		**Aqueous**		**11/16/09**	**11/17/09 06:07**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	105	80-128		Dibromofluoromethane	102	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	92	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-3S	**09-11-1220-6-A**	**11/13/09 12:25**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 06:36**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	1.3	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	2.0	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.3	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-3S	**09-11-1220-6**		**Aqueous**		**11/16/09**	**11/17/09 06:36**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	101	80-128		Dibromofluoromethane	102	80-127	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5S	**09-11-1220-7-A**	**11/13/09 12:50**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 07:04**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	0.55	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	2.6	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	3.7	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5S	**09-11-1220-7**		**Aqueous**		**11/16/09**	**11/17/09 07:04**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	80-128		Dibromofluoromethane	107	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	79	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5U	**09-11-1220-8-A**	**11/13/09 12:40**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 07:33**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	22	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	2.4	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	0.84	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	1.2	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-5U	**09-11-1220-8**		**Aqueous**		**11/16/09**	**11/17/09 07:33**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	106	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	90	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PG&E Radback, Oakley			Page 18 of 25

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6S	**09-11-1220-9-A**	**11/13/09 11:55**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 08:02**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	0.84	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	1.2	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	1.4	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6S	**09-11-1220-9**		**Aqueous**		**11/16/09**	**11/17/09 08:02**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	103	80-128		Dibromofluoromethane	103	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	90	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6U	**09-11-1220-10-A**	**11/13/09 11:50**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 08:31**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6U	**09-11-1220-10**		**Aqueous**		**11/16/09**	**11/17/09 08:31**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	111	80-128		Dibromofluoromethane	108	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	90	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6L	**09-11-1220-11-A**	**11/13/09 11:30**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 09:00**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	2.8	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	5.2	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	1.2	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	4.9	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RAD-MW-6L	**09-11-1220-11**		**Aqueous**		**11/16/09**	**11/17/09 09:00**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	68	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,312**	**N/A**	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09 00:52**	**091116L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		Ethylbenzene	ND	0.50	1	
Benzene	ND	0.50	1		2-Hexanone	ND	10	1	
Bromobenzene	ND	0.50	1		Isopropylbenzene	ND	0.50	1	
Bromochloromethane	ND	1.0	1		p-Isopropyltoluene	ND	0.50	1	
Bromodichloromethane	ND	0.50	1		Methylene Chloride	ND	1.0	1	
Bromoform	ND	0.50	1		4-Methyl-2-Pentanone	ND	5.0	1	
Bromomethane	ND	1.0	1		Naphthalene	ND	1.0	1	
2-Butanone	ND	5.0	1		n-Propylbenzene	ND	0.50	1	
n-Butylbenzene	ND	0.50	1		Styrene	ND	0.50	1	
sec-Butylbenzene	ND	0.50	1		Chloroprene	ND	0.50	1	
tert-Butylbenzene	ND	0.50	1		1,1,1,2-Tetrachloroethane	ND	0.50	1	
Carbon Disulfide	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
Chlorobenzene	ND	0.50	1		Toluene	ND	0.50	1	
Chloroethane	ND	0.50	1		1,2,3-Trichlorobenzene	ND	0.50	1	
2-Chloroethyl Vinyl Ether	ND	5.0	1		Ethyl Methacrylate	ND	5.0	1	
Chloroform	ND	0.50	1		1,2,4-Trichlorobenzene	ND	0.50	1	
Chloromethane	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
2-Chlorotoluene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	2.0	1	
4-Chlorotoluene	ND	0.50	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1	
Dibromochloromethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Iodomethane	ND	10	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
Dibromomethane	ND	0.50	1		Trichlorofluoromethane	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Isobutyl Alcohol	ND	10	1	
1,3-Dichlorobenzene	ND	0.50	1		1,2,3-Trichloropropane	ND	1.0	1	
1,4-Dichlorobenzene	ND	0.50	1		1,2,4-Trimethylbenzene	ND	0.50	1	
Dichlorodifluoromethane	ND	1.0	1		Methacrylonitrile	ND	10	1	
1,1-Dichloroethane	ND	0.50	1		Methyl Methacrylate	ND	5.0	1	
1,2-Dichloroethane	ND	0.50	1		1,3,5-Trimethylbenzene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Vinyl Acetate	ND	5.0	1	
c-1,2-Dichloroethene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
t-1,2-Dichloroethene	ND	0.50	1		p/m-Xylene	ND	0.50	1	
Acetonitrile	ND	10	1		o-Xylene	ND	0.50	1	
1,2-Dichloropropane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	
Acrolein	ND	20	1		t-1,4-Dichloro-2-Butene	ND	5.0	1	
Acrylonitrile	ND	10	1		Tetrahydrofuran	ND	5.0	1	
1,3-Dichloropropane	ND	1.0	1		Propionitrile	ND	10	1	
2,2-Dichloropropane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Allyl Chloride	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	0.50	1	
1,1-Dichloropropene	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	
c-1,3-Dichloropropene	ND	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1		Ethanol	ND	50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	11/14/09
1900 Powell Street, 12th Floor		Work Order No:	09-11-1220
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	

Project: PG&E Radback, Oakley

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,312**	**N/A**	**Aqueous**		**11/16/09**	**11/17/09 00:52**	**091116L02**

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	109	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	91	68-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/14/09
Work Order No:	09-11-1220
Preparation:	EPA 3005A Filt.
Method:	EPA 6010B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
RAD-MW-1U	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09**	**091116SA6**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	104	98	72-132	7	0-10	
Arsenic	109	101	80-140	7	0-11	
Beryllium	104	99	89-119	5	0-8	
Cadmium	105	99	82-124	6	0-7	
Chromium	102	97	86-122	6	0-8	
Copper	108	102	78-126	6	0-7	
Lead	105	98	84-120	7	0-7	
Nickel	105	99	84-120	6	0-7	
Selenium	103	96	79-127	7	0-9	
Silver	104	99	86-128	5	0-7	
Thallium	104	98	79-121	7	0-8	
Zinc	110	103	89-131	7	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/14/09
Work Order No:	09-11-1220
Preparation:	EPA 7470A Total
Method:	EPA 7470A

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-1101-1	**Aqueous**	**Mercury**	**11/17/09**	**11/17/09**	**091117S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	103	103	57-141	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	11/14/09
Work Order No:	09-11-1220
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0850-4	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/17/09**	**091116S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	99	76-124	3	0-20	
Toluene	96	91	80-120	5	0-20	
Ethylbenzene	93	88	78-126	6	0-20	
Methyl-t-Butyl Ether (MTBE)	78	79	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	113	114	36-162	1	0-30	
Diisopropyl Ether (DIPE)	96	93	60-138	4	0-45	
Ethyl-t-Butyl Ether (ETBE)	88	86	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	84	85	65-120	0	0-20	
Ethanol	129	112	30-180	14	0-72	
1,1-Dichloroethene	92	83	73-127	11	0-20	
1,2-Dibromoethane	94	94	80-120	0	0-20	
1,2-Dichlorobenzene	95	95	80-120	1	0-20	
Carbon Tetrachloride	106	105	74-134	2	0-20	
Chlorobenzene	96	95	80-120	1	0-20	
Trichloroethene	98	95	77-120	3	0-20	
Vinyl Chloride	82	80	72-126	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-1220
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,884	**Aqueous**	**ICP 5300**	**11/16/09**	**11/17/09**	**091116LA6F**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	102	102	80-120	73-127	0	0-20	
Arsenic	100	100	80-120	73-127	0	0-20	
Beryllium	99	99	80-120	73-127	0	0-20	
Cadmium	103	103	80-120	73-127	1	0-20	
Chromium	99	99	80-120	73-127	0	0-20	
Copper	100	100	80-120	73-127	0	0-20	
Lead	104	104	80-120	73-127	0	0-20	
Nickel	103	103	80-120	73-127	0	0-20	
Selenium	96	97	80-120	73-127	0	0-20	
Silver	100	98	80-120	73-127	2	0-20	
Thallium	101	102	80-120	73-127	1	0-20	
Zinc	105	105	80-120	73-127	0	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-11-1220
Preparation:	EPA 3510C
Method:	EPA 8015B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,427	**Aqueous**	**GC 27**	**11/18/09**	**11/19/09**	**091118B07**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	111	109	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-11-1220
Preparation:	EPA 7470A Filt.
Method:	EPA 7470A

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,431	**Aqueous**	**Mercury**	**11/17/09**	**11/17/09**	**091117L02F**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	98	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-1220
Preparation: EPA 3510C
Method: EPA 8270C

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-2,789	**Aqueous**	**GC/MS SS**	**11/17/09**	**11/20/09**	**091117L09**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Phenol	42	42	4-142	0-165	1	0-24	
2-Chlorophenol	74	75	53-113	43-123	1	0-17	
1,4-Dichlorobenzene	69	69	50-122	38-134	1	0-19	
N-Nitroso-di-n-propylamine	86	88	56-146	41-161	2	0-22	
Naphthalene	70	71	21-133	2-152	1	0-20	
4-Chloro-3-Methylphenol	82	83	55-121	44-132	2	0-18	
Dimethyl Phthalate	71	71	0-112	0-131	0	0-20	
Acenaphthylene	73	74	33-145	14-164	1	0-20	
Acenaphthene	80	81	55-139	41-153	1	0-17	
4-Nitrophenol	32	35	1-145	0-169	9	0-29	
2,4-Dinitrotoluene	73	75	41-161	21-181	3	0-22	
Fluorene	78	79	59-121	49-131	2	0-20	
Pentachlorophenol	56	58	34-130	18-146	3	0-23	
Pyrene	95	94	38-170	16-192	2	0-27	
Butyl Benzyl Phthalate	83	80	0-152	0-177	3	0-20	
1,2,4-Trichlorobenzene	75	75	49-121	37-133	1	0-19	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-1220
Preparation: EPA 3510C
Method: EPA 8270C SIM PAHs

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-008-233	**Aqueous**	**GC/MS AAA**	**11/16/09**	**11/18/09**	**091116L09**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Naphthalene	87	87	21-133	2-152	0	0-25	
2-Methylnaphthalene	75	78	21-140	1-160	3	0-25	
1-Methylnaphthalene	82	91	20-140	0-160	10	0-25	
Acenaphthylene	75	74	33-145	14-164	1	0-25	
Acenaphthene	84	84	55-121	44-132	0	0-25	
Fluorene	84	84	59-121	49-131	0	0-25	
Phenanthrene	57	58	54-120	43-131	2	0-25	
Anthracene	105	102	27-133	9-151	3	0-25	
Fluoranthene	61	63	26-137	8-156	4	0-25	
Pyrene	88	84	45-129	31-143	4	0-25	
Benzo (a) Anthracene	57	58	33-143	15-161	2	0-25	
Chrysene	108	102	17-168	0-193	5	0-25	
Benzo (k) Fluoranthene	90	96	24-159	2-182	7	0-25	
Benzo (b) Fluoranthene	64	64	24-159	2-182	0	0-25	
Benzo (a) Pyrene	80	82	17-163	0-187	2	0-25	
Indeno (1,2,3-c,d) Pyrene	110	113	0-171	0-200	3	0-25	
Dibenz (a,h) Anthracene	99	101	0-219	0-256	2	0-25	
Benzo (g,h,i) Perylene	87	88	0-227	0-265	1	0-25	

Total number of LCS compounds : 18
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-11-1220
Preparation: EPA 5030B
Method: EPA 8260B

Project: PG&E Radback, Oakley

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,312	**Aqueous**	**GC/MS BB**	**11/16/09**	**11/16/09**	**091116L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	96	80-120	73-127	3	0-20	
Carbon Tetrachloride	108	105	74-134	64-144	2	0-20	
Chlorobenzene	96	93	80-120	73-127	2	0-20	
1,2-Dibromoethane	96	93	79-121	72-128	4	0-20	
1,2-Dichlorobenzene	96	94	80-120	73-127	1	0-20	
1,1-Dichloroethene	113	99	78-126	70-134	14	0-28	
Ethylbenzene	93	91	80-120	73-127	3	0-20	
Toluene	95	91	80-120	73-127	3	0-20	
Trichloroethene	97	94	79-127	71-135	3	0-20	
Vinyl Chloride	86	83	72-132	62-142	4	0-20	
Methyl-t-Butyl Ether (MTBE)	90	86	69-123	60-132	4	0-20	
Tert-Butyl Alcohol (TBA)	101	101	63-123	53-133	0	0-20	
Diisopropyl Ether (DIPE)	99	94	59-137	46-150	5	0-37	
Ethyl-t-Butyl Ether (ETBE)	90	87	69-123	60-132	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	88	85	70-120	62-128	3	0-20	
Ethanol	111	105	28-160	6-182	5	0-57	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-11-1220

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: PG&E Radback RC746.2.7

Project Location: Oakley

Laboratory: Calscience

Project Manager: J. Maehr

Sampler(s)/Affiliation: G Clift

1220

ANALYSIS/ METHOD / SIZE

	Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	DRO 8015 500mL Amber	SVOC 6270C 1L amber	PAHs 1L amber OR 2 500mL Amber 8270C/8310	Low Level VOCs VOAs HCl 8260B/5035	PP Metals (Field Filtered) 6010B/7470A/7471		Remarks	Total
1	RAD-MW-1U	L	11-13 10:55		X	X	X	X	X			7
2	RAD-MW-1L	L	11-13 10:40		X	X	X	X	X			7
3	RAD-MW-1S	L	11-13 9:00		X	X	X	X	X			7
4	RAD-MW-4S	L	11-13 8:35		X	X	X	X	X			7
5	RAD-MW-2S	L	11-13 11:15		X	X	X	X	X			7
6	RAD-MW-3S	L	11-13 12:25		X	X	X	X	X			7
7	RAD-MW-5S	L	11-13 12:50		X	X	X	X	X			7
8	RAD-MW-5U	L	11-13 12:40		X	X	X	X	X			7
9	RAD-MW-6S	L	11-13 11:55		X	X	X	X	X			7
10	RAD-MW-6U	L	11-13 11:50		X	X	X	X	X			7
11	RAD-MW-6L	L	11-13 11:30		X	X	X	X	X			7

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: [signature]	Organization: ARCADIS	Date 11/13/09	Time 1500	Seal Intact?	
Received by: [signature] CEL	Organization: CEL	Date 11/13/09	Time 1500	Yes No N/A	
Relinquished by: [signature] TO GSO	Organization: CEL	Date 11/13/09	Time 1730	Seal Intact?	
Received by: [signature]	Organization: CEL	Date 11/14/09	Time 1030	Yes No N/A	

Special Instructions/Remarks:

(650) 5130259741
5130259889
988

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-11-1220

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Arcadis

DATE: 11/14/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.1 °C - 0.8 °C (CF) = 3.3 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** [illegible]

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** [illegible]

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** POP

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☐	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3 VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☑1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** POP

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** W.SC

Preservative: h: HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** [illegible]

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-11-1 2 3 0

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s)/preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☑ **# of Containers**
  - ☐ **Analysis**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Air sample containers compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

(-10) + (-11) received 8 cont. (2 x 500 AGJ instead of 1 AGB for PAH)

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: LSC 11/14/09

Calscience Environmental Laboratories, Inc.

December 07, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-12-0351**
Client Reference: PG&E Oakley / RC000746.0002.00007 / Radback

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/4/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34A@1'	**09-12-0351-1-C**	**12/03/09 10:37**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 19:36**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.826		c-1,3-Dichloropropene	ND	0.83	0.826	
Benzene	ND	0.83	0.826		t-1,3-Dichloropropene	ND	1.7	0.826	
Bromobenzene	ND	0.83	0.826		Ethylbenzene	ND	0.83	0.826	
Bromochloromethane	ND	1.7	0.826		2-Hexanone	ND	17	0.826	
Bromodichloromethane	ND	0.83	0.826		Isopropylbenzene	ND	0.83	0.826	
Bromoform	ND	4.1	0.826		p-Isopropyltoluene	ND	0.83	0.826	
Bromomethane	ND	17	0.826		Methylene Chloride	ND	8.3	0.826	
2-Butanone	ND	17	0.826		4-Methyl-2-Pentanone	ND	17	0.826	
n-Butylbenzene	ND	0.83	0.826		Naphthalene	ND	8.3	0.826	
sec-Butylbenzene	ND	0.83	0.826		n-Propylbenzene	ND	1.7	0.826	
tert-Butylbenzene	ND	0.83	0.826		Styrene	ND	0.83	0.826	
Carbon Disulfide	ND	8.3	0.826		1,1,1,2-Tetrachloroethane	ND	0.83	0.826	
Carbon Tetrachloride	ND	0.83	0.826		1,1,2,2-Tetrachloroethane	ND	1.7	0.826	
Chlorobenzene	ND	0.83	0.826		Tetrachloroethene	ND	0.83	0.826	
Chloroethane	ND	1.7	0.826		Toluene	ND	0.83	0.826	
Chloroform	ND	0.83	0.826		1,2,3-Trichlorobenzene	ND	1.7	0.826	
Chloromethane	ND	17	0.826		1,2,4-Trichlorobenzene	ND	1.7	0.826	
2-Chlorotoluene	ND	0.83	0.826		1,1,1-Trichloroethane	ND	0.83	0.826	
4-Chlorotoluene	ND	0.83	0.826		1,1,2-Trichloroethane	ND	0.83	0.826	
Dibromochloromethane	ND	1.7	0.826		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.826	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.826		Trichloroethene	ND	1.7	0.826	
1,2-Dibromoethane	ND	0.83	0.826		Trichlorofluoromethane	ND	8.3	0.826	
Dibromomethane	ND	0.83	0.826		1,2,3-Trichloropropane	ND	1.7	0.826	
1,2-Dichlorobenzene	ND	0.83	0.826		1,2,4-Trimethylbenzene	ND	1.7	0.826	
1,3-Dichlorobenzene	ND	0.83	0.826		1,3,5-Trimethylbenzene	ND	1.7	0.826	
1,4-Dichlorobenzene	ND	0.83	0.826		Vinyl Acetate	ND	8.3	0.826	
Dichlorodifluoromethane	ND	1.7	0.826		Vinyl Chloride	ND	0.83	0.826	
1,1-Dichloroethane	ND	0.83	0.826		p/m-Xylene	ND	1.7	0.826	
1,2-Dichloroethane	ND	0.83	0.826		o-Xylene	ND	0.83	0.826	
1,1-Dichloroethene	ND	0.83	0.826		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.826	
c-1,2-Dichloroethene	ND	0.83	0.826		Tert-Butyl Alcohol (TBA)	ND	17	0.826	
t-1,2-Dichloroethene	ND	0.83	0.826		Diisopropyl Ether (DIPE)	ND	0.83	0.826	
1,2-Dichloropropane	ND	0.83	0.826		Ethyl-t-Butyl Ether (ETBE)	ND	0.83	0.826	
1,3-Dichloropropane	ND	0.83	0.826		Tert-Amyl-Methyl Ether (TAME)	ND	0.83	0.826	
2,2-Dichloropropane	ND	4.1	0.826		Ethanol	ND	410	0.826	
1,1-Dichloropropene	ND	1.7	0.826						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-34A@5'	**09-12-0351-2-C**	**12/03/09 10:43**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 20:05**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0351
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38A@1'	**09-12-0351-3-C**	**12/03/09 10:55**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 02:11**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	76	47	0.933		c-1,3-Dichloropropene	ND	0.93	0.933	
Benzene	ND	0.93	0.933		t-1,3-Dichloropropene	ND	1.9	0.933	
Bromobenzene	ND	0.93	0.933		Ethylbenzene	ND	0.93	0.933	
Bromochloromethane	ND	1.9	0.933		2-Hexanone	ND	19	0.933	
Bromodichloromethane	ND	0.93	0.933		Isopropylbenzene	ND	0.93	0.933	
Bromoform	ND	4.7	0.933		p-Isopropyltoluene	ND	0.93	0.933	
Bromomethane	ND	19	0.933		Methylene Chloride	ND	9.3	0.933	
2-Butanone	ND	19	0.933		4-Methyl-2-Pentanone	ND	19	0.933	
n-Butylbenzene	ND	0.93	0.933		Naphthalene	ND	9.3	0.933	
sec-Butylbenzene	ND	0.93	0.933		n-Propylbenzene	ND	1.9	0.933	
tert-Butylbenzene	ND	0.93	0.933		Styrene	ND	0.93	0.933	
Carbon Disulfide	ND	9.3	0.933		1,1,1,2-Tetrachloroethane	ND	0.93	0.933	
Carbon Tetrachloride	ND	0.93	0.933		1,1,2,2-Tetrachloroethane	ND	1.9	0.933	
Chlorobenzene	ND	0.93	0.933		Tetrachloroethene	ND	0.93	0.933	
Chloroethane	ND	1.9	0.933		Toluene	ND	0.93	0.933	
Chloroform	ND	0.93	0.933		1,2,3-Trichlorobenzene	ND	1.9	0.933	
Chloromethane	ND	19	0.933		1,2,4-Trichlorobenzene	ND	1.9	0.933	
2-Chlorotoluene	ND	0.93	0.933		1,1,1-Trichloroethane	ND	0.93	0.933	
4-Chlorotoluene	ND	0.93	0.933		1,1,2-Trichloroethane	ND	0.93	0.933	
Dibromochloromethane	ND	1.9	0.933		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.933	
1,2-Dibromo-3-Chloropropane	ND	4.7	0.933		Trichloroethene	ND	1.9	0.933	
1,2-Dibromoethane	ND	0.93	0.933		Trichlorofluoromethane	ND	9.3	0.933	
Dibromomethane	ND	0.93	0.933		1,2,3-Trichloropropane	ND	1.9	0.933	
1,2-Dichlorobenzene	ND	0.93	0.933		1,2,4-Trimethylbenzene	ND	1.9	0.933	
1,3-Dichlorobenzene	ND	0.93	0.933		1,3,5-Trimethylbenzene	ND	1.9	0.933	
1,4-Dichlorobenzene	ND	0.93	0.933		Vinyl Acetate	ND	9.3	0.933	
Dichlorodifluoromethane	ND	1.9	0.933		Vinyl Chloride	ND	0.93	0.933	
1,1-Dichloroethane	ND	0.93	0.933		p/m-Xylene	ND	1.9	0.933	
1,2-Dichloroethane	ND	0.93	0.933		o-Xylene	ND	0.93	0.933	
1,1-Dichloroethene	ND	0.93	0.933		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.933	
c-1,2-Dichloroethene	ND	0.93	0.933		Tert-Butyl Alcohol (TBA)	ND	19	0.933	
t-1,2-Dichloroethene	ND	0.93	0.933		Diisopropyl Ether (DIPE)	ND	0.93	0.933	
1,2-Dichloropropane	ND	0.93	0.933		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.933	
1,3-Dichloropropane	ND	0.93	0.933		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.933	
2,2-Dichloropropane	ND	4.7	0.933		Ethanol	ND	470	0.933	
1,1-Dichloropropene	ND	1.9	0.933						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	135	71-137		1,2-Dichloroethane-d4	140	58-160	
1,4-Bromofluorobenzene	77	66-126		Toluene-d8	93	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-38A@5'	**09-12-0351-4-C**	**12/03/09 11:05**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 02:41**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	55	48	0.954		c-1,3-Dichloropropene	ND	0.95	0.954	
Benzene	ND	0.95	0.954		t-1,3-Dichloropropene	ND	1.9	0.954	
Bromobenzene	ND	0.95	0.954		Ethylbenzene	ND	0.95	0.954	
Bromochloromethane	ND	1.9	0.954		2-Hexanone	ND	19	0.954	
Bromodichloromethane	ND	0.95	0.954		Isopropylbenzene	ND	0.95	0.954	
Bromoform	ND	4.8	0.954		p-Isopropyltoluene	ND	0.95	0.954	
Bromomethane	ND	19	0.954		Methylene Chloride	ND	9.5	0.954	
2-Butanone	ND	19	0.954		4-Methyl-2-Pentanone	ND	19	0.954	
n-Butylbenzene	ND	0.95	0.954		Naphthalene	ND	9.5	0.954	
sec-Butylbenzene	ND	0.95	0.954		n-Propylbenzene	ND	1.9	0.954	
tert-Butylbenzene	ND	0.95	0.954		Styrene	ND	0.95	0.954	
Carbon Disulfide	ND	9.5	0.954		1,1,1,2-Tetrachloroethane	ND	0.95	0.954	
Carbon Tetrachloride	ND	0.95	0.954		1,1,2,2-Tetrachloroethane	ND	1.9	0.954	
Chlorobenzene	ND	0.95	0.954		Tetrachloroethene	ND	0.95	0.954	
Chloroethane	ND	1.9	0.954		Toluene	ND	0.95	0.954	
Chloroform	ND	0.95	0.954		1,2,3-Trichlorobenzene	ND	1.9	0.954	
Chloromethane	ND	19	0.954		1,2,4-Trichlorobenzene	ND	1.9	0.954	
2-Chlorotoluene	ND	0.95	0.954		1,1,1-Trichloroethane	ND	0.95	0.954	
4-Chlorotoluene	ND	0.95	0.954		1,1,2-Trichloroethane	ND	0.95	0.954	
Dibromochloromethane	ND	1.9	0.954		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.5	0.954	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.954		Trichloroethene	ND	1.9	0.954	
1,2-Dibromoethane	ND	0.95	0.954		Trichlorofluoromethane	ND	9.5	0.954	
Dibromomethane	ND	0.95	0.954		1,2,3-Trichloropropane	ND	1.9	0.954	
1,2-Dichlorobenzene	ND	0.95	0.954		1,2,4-Trimethylbenzene	ND	1.9	0.954	
1,3-Dichlorobenzene	ND	0.95	0.954		1,3,5-Trimethylbenzene	ND	1.9	0.954	
1,4-Dichlorobenzene	ND	0.95	0.954		Vinyl Acetate	ND	9.5	0.954	
Dichlorodifluoromethane	ND	1.9	0.954		Vinyl Chloride	ND	0.95	0.954	
1,1-Dichloroethane	ND	0.95	0.954		p/m-Xylene	ND	1.9	0.954	
1,2-Dichloroethane	ND	0.95	0.954		o-Xylene	ND	0.95	0.954	
1,1-Dichloroethene	ND	0.95	0.954		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.954	
c-1,2-Dichloroethene	ND	0.95	0.954		Tert-Butyl Alcohol (TBA)	ND	19	0.954	
t-1,2-Dichloroethene	ND	0.95	0.954		Diisopropyl Ether (DIPE)	ND	0.95	0.954	
1,2-Dichloropropane	ND	0.95	0.954		Ethyl-t-Butyl Ether (ETBE)	ND	0.95	0.954	
1,3-Dichloropropane	ND	0.95	0.954		Tert-Amyl-Methyl Ether (TAME)	ND	0.95	0.954	
2,2-Dichloropropane	ND	4.8	0.954		Ethanol	ND	480	0.954	
1,1-Dichloropropene	ND	1.9	0.954						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	133	71-137		1,2-Dichloroethane-d4	142	58-160	
1,4-Bromofluorobenzene	77	66-126		Toluene-d8	93	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18A@1'	**09-12-0351-5-D**	**12/03/09 11:09**	**Solid**	**GC/MS Z**	**12/03/09**	**12/05/09 15:12**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	78	44	0.89		c-1,3-Dichloropropene	ND	0.89	0.89	
Benzene	ND	0.89	0.89		t-1,3-Dichloropropene	ND	1.8	0.89	
Bromobenzene	ND	0.89	0.89		Ethylbenzene	ND	0.89	0.89	
Bromochloromethane	ND	1.8	0.89		2-Hexanone	ND	18	0.89	
Bromodichloromethane	ND	0.89	0.89		Isopropylbenzene	ND	0.89	0.89	
Bromoform	ND	4.4	0.89		p-Isopropyltoluene	ND	0.89	0.89	
Bromomethane	ND	18	0.89		Methylene Chloride	ND	8.9	0.89	
2-Butanone	ND	18	0.89		4-Methyl-2-Pentanone	ND	18	0.89	
n-Butylbenzene	ND	0.89	0.89		Naphthalene	ND	8.9	0.89	
sec-Butylbenzene	ND	0.89	0.89		n-Propylbenzene	ND	1.8	0.89	
tert-Butylbenzene	ND	0.89	0.89		Styrene	ND	0.89	0.89	
Carbon Disulfide	ND	8.9	0.89		1,1,1,2-Tetrachloroethane	ND	0.89	0.89	
Carbon Tetrachloride	ND	0.89	0.89		1,1,2,2-Tetrachloroethane	ND	1.8	0.89	
Chlorobenzene	ND	0.89	0.89		Tetrachloroethene	ND	0.89	0.89	
Chloroethane	ND	1.8	0.89		Toluene	ND	0.89	0.89	
Chloroform	ND	0.89	0.89		1,2,3-Trichlorobenzene	ND	1.8	0.89	
Chloromethane	ND	18	0.89		1,2,4-Trichlorobenzene	ND	1.8	0.89	
2-Chlorotoluene	ND	0.89	0.89		1,1,1-Trichloroethane	ND	0.89	0.89	
4-Chlorotoluene	ND	0.89	0.89		1,1,2-Trichloroethane	ND	0.89	0.89	
Dibromochloromethane	ND	1.8	0.89		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.89	
1,2-Dibromo-3-Chloropropane	ND	4.4	0.89		Trichloroethene	ND	1.8	0.89	
1,2-Dibromoethane	ND	0.89	0.89		Trichlorofluoromethane	ND	8.9	0.89	
Dibromomethane	ND	0.89	0.89		1,2,3-Trichloropropane	ND	1.8	0.89	
1,2-Dichlorobenzene	ND	0.89	0.89		1,2,4-Trimethylbenzene	ND	1.8	0.89	
1,3-Dichlorobenzene	ND	0.89	0.89		1,3,5-Trimethylbenzene	ND	1.8	0.89	
1,4-Dichlorobenzene	ND	0.89	0.89		Vinyl Acetate	ND	8.9	0.89	
Dichlorodifluoromethane	ND	1.8	0.89		Vinyl Chloride	ND	0.89	0.89	
1,1-Dichloroethane	ND	0.89	0.89		p/m-Xylene	ND	1.8	0.89	
1,2-Dichloroethane	ND	0.89	0.89		o-Xylene	ND	0.89	0.89	
1,1-Dichloroethene	ND	0.89	0.89		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.89	
c-1,2-Dichloroethene	ND	0.89	0.89		Tert-Butyl Alcohol (TBA)	ND	18	0.89	
t-1,2-Dichloroethene	ND	0.89	0.89		Diisopropyl Ether (DIPE)	ND	0.89	0.89	
1,2-Dichloropropane	ND	0.89	0.89		Ethyl-t-Butyl Ether (ETBE)	ND	0.89	0.89	
1,3-Dichloropropane	ND	0.89	0.89		Tert-Amyl-Methyl Ether (TAME)	ND	0.89	0.89	
2,2-Dichloropropane	ND	4.4	0.89		Ethanol	ND	440	0.89	
1,1-Dichloropropene	ND	1.8	0.89						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	96	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0351
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18A@5'	**09-12-0351-6-C**	**12/03/09 11:18**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 03:41**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	47	0.933		c-1,3-Dichloropropene	ND	0.93	0.933	
Benzene	ND	0.93	0.933		t-1,3-Dichloropropene	ND	1.9	0.933	
Bromobenzene	ND	0.93	0.933		Ethylbenzene	ND	0.93	0.933	
Bromochloromethane	ND	1.9	0.933		2-Hexanone	ND	19	0.933	
Bromodichloromethane	ND	0.93	0.933		Isopropylbenzene	ND	0.93	0.933	
Bromoform	ND	4.7	0.933		p-Isopropyltoluene	ND	0.93	0.933	
Bromomethane	ND	19	0.933		Methylene Chloride	ND	9.3	0.933	
2-Butanone	ND	19	0.933		4-Methyl-2-Pentanone	ND	19	0.933	
n-Butylbenzene	ND	0.93	0.933		Naphthalene	ND	9.3	0.933	
sec-Butylbenzene	ND	0.93	0.933		n-Propylbenzene	ND	1.9	0.933	
tert-Butylbenzene	ND	0.93	0.933		Styrene	ND	0.93	0.933	
Carbon Disulfide	ND	9.3	0.933		1,1,1,2-Tetrachloroethane	ND	0.93	0.933	
Carbon Tetrachloride	ND	0.93	0.933		1,1,2,2-Tetrachloroethane	ND	1.9	0.933	
Chlorobenzene	ND	0.93	0.933		Tetrachloroethene	ND	0.93	0.933	
Chloroethane	ND	1.9	0.933		Toluene	ND	0.93	0.933	
Chloroform	ND	0.93	0.933		1,2,3-Trichlorobenzene	ND	1.9	0.933	
Chloromethane	ND	19	0.933		1,2,4-Trichlorobenzene	ND	1.9	0.933	
2-Chlorotoluene	ND	0.93	0.933		1,1,1-Trichloroethane	ND	0.93	0.933	
4-Chlorotoluene	ND	0.93	0.933		1,1,2-Trichloroethane	ND	0.93	0.933	
Dibromochloromethane	ND	1.9	0.933		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.933	
1,2-Dibromo-3-Chloropropane	ND	4.7	0.933		Trichloroethene	ND	1.9	0.933	
1,2-Dibromoethane	ND	0.93	0.933		Trichlorofluoromethane	ND	9.3	0.933	
Dibromomethane	ND	0.93	0.933		1,2,3-Trichloropropane	ND	1.9	0.933	
1,2-Dichlorobenzene	ND	0.93	0.933		1,2,4-Trimethylbenzene	ND	1.9	0.933	
1,3-Dichlorobenzene	ND	0.93	0.933		1,3,5-Trimethylbenzene	ND	1.9	0.933	
1,4-Dichlorobenzene	ND	0.93	0.933		Vinyl Acetate	ND	9.3	0.933	
Dichlorodifluoromethane	ND	1.9	0.933		Vinyl Chloride	ND	0.93	0.933	
1,1-Dichloroethane	ND	0.93	0.933		p/m-Xylene	ND	1.9	0.933	
1,2-Dichloroethane	ND	0.93	0.933		o-Xylene	ND	0.93	0.933	
1,1-Dichloroethene	ND	0.93	0.933		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.933	
c-1,2-Dichloroethene	ND	0.93	0.933		Tert-Butyl Alcohol (TBA)	ND	19	0.933	
t-1,2-Dichloroethene	ND	0.93	0.933		Diisopropyl Ether (DIPE)	ND	0.93	0.933	
1,2-Dichloropropane	ND	0.93	0.933		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.933	
1,3-Dichloropropane	ND	0.93	0.933		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.933	
2,2-Dichloropropane	ND	4.7	0.933		Ethanol	ND	470	0.933	
1,1-Dichloropropene	ND	1.9	0.933						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	133	71-137		1,2-Dichloroethane-d4	142	58-160	
1,4-Bromofluorobenzene	77	66-126		Toluene-d8	94	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-40A@1'	**09-12-0351-7-C**	**12/03/09 11:25**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 04:11**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	78	49	0.973		c-1,3-Dichloropropene	ND	0.97	0.973	
Benzene	ND	0.97	0.973		t-1,3-Dichloropropene	ND	1.9	0.973	
Bromobenzene	ND	0.97	0.973		Ethylbenzene	ND	0.97	0.973	
Bromochloromethane	ND	1.9	0.973		2-Hexanone	ND	19	0.973	
Bromodichloromethane	ND	0.97	0.973		Isopropylbenzene	ND	0.97	0.973	
Bromoform	ND	4.9	0.973		p-Isopropyltoluene	ND	0.97	0.973	
Bromomethane	ND	19	0.973		Methylene Chloride	ND	9.7	0.973	
2-Butanone	ND	19	0.973		4-Methyl-2-Pentanone	ND	19	0.973	
n-Butylbenzene	ND	0.97	0.973		Naphthalene	ND	9.7	0.973	
sec-Butylbenzene	ND	0.97	0.973		n-Propylbenzene	ND	1.9	0.973	
tert-Butylbenzene	ND	0.97	0.973		Styrene	ND	0.97	0.973	
Carbon Disulfide	ND	9.7	0.973		1,1,1,2-Tetrachloroethane	ND	0.97	0.973	
Carbon Tetrachloride	ND	0.97	0.973		1,1,2,2-Tetrachloroethane	ND	1.9	0.973	
Chlorobenzene	ND	0.97	0.973		Tetrachloroethene	ND	0.97	0.973	
Chloroethane	ND	1.9	0.973		Toluene	ND	0.97	0.973	
Chloroform	ND	0.97	0.973		1,2,3-Trichlorobenzene	ND	1.9	0.973	
Chloromethane	ND	19	0.973		1,2,4-Trichlorobenzene	ND	1.9	0.973	
2-Chlorotoluene	ND	0.97	0.973		1,1,1-Trichloroethane	ND	0.97	0.973	
4-Chlorotoluene	ND	0.97	0.973		1,1,2-Trichloroethane	ND	0.97	0.973	
Dibromochloromethane	ND	1.9	0.973		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	0.973	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.973		Trichloroethene	ND	1.9	0.973	
1,2-Dibromoethane	ND	0.97	0.973		Trichlorofluoromethane	ND	9.7	0.973	
Dibromomethane	ND	0.97	0.973		1,2,3-Trichloropropane	ND	1.9	0.973	
1,2-Dichlorobenzene	ND	0.97	0.973		1,2,4-Trimethylbenzene	ND	1.9	0.973	
1,3-Dichlorobenzene	ND	0.97	0.973		1,3,5-Trimethylbenzene	ND	1.9	0.973	
1,4-Dichlorobenzene	ND	0.97	0.973		Vinyl Acetate	ND	9.7	0.973	
Dichlorodifluoromethane	ND	1.9	0.973		Vinyl Chloride	ND	0.97	0.973	
1,1-Dichloroethane	ND	0.97	0.973		p/m-Xylene	ND	1.9	0.973	
1,2-Dichloroethane	ND	0.97	0.973		o-Xylene	ND	0.97	0.973	
1,1-Dichloroethene	ND	0.97	0.973		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.973	
c-1,2-Dichloroethene	ND	0.97	0.973		Tert-Butyl Alcohol (TBA)	ND	19	0.973	
t-1,2-Dichloroethene	ND	0.97	0.973		Diisopropyl Ether (DIPE)	ND	0.97	0.973	
1,2-Dichloropropane	ND	0.97	0.973		Ethyl-t-Butyl Ether (ETBE)	ND	0.97	0.973	
1,3-Dichloropropane	ND	0.97	0.973		Tert-Amyl-Methyl Ether (TAME)	ND	0.97	0.973	
2,2-Dichloropropane	ND	4.9	0.973		Ethanol	ND	490	0.973	
1,1-Dichloropropene	ND	1.9	0.973						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	135	71-137		1,2-Dichloroethane-d4	143	58-160	
1,4-Bromofluorobenzene	74	66-126		Toluene-d8	92	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-40A@5'	**09-12-0351-8-C**	**12/03/09 11:35**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 04:41**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	63	56	1.12		c-1,3-Dichloropropene	ND	1.1	1.12	
Benzene	ND	1.1	1.12		t-1,3-Dichloropropene	ND	2.2	1.12	
Bromobenzene	ND	1.1	1.12		Ethylbenzene	ND	1.1	1.12	
Bromochloromethane	ND	2.2	1.12		2-Hexanone	ND	22	1.12	
Bromodichloromethane	ND	1.1	1.12		Isopropylbenzene	ND	1.1	1.12	
Bromoform	ND	5.6	1.12		p-Isopropyltoluene	ND	1.1	1.12	
Bromomethane	ND	22	1.12		Methylene Chloride	ND	11	1.12	
2-Butanone	ND	22	1.12		4-Methyl-2-Pentanone	ND	22	1.12	
n-Butylbenzene	ND	1.1	1.12		Naphthalene	ND	11	1.12	
sec-Butylbenzene	ND	1.1	1.12		n-Propylbenzene	ND	2.2	1.12	
tert-Butylbenzene	ND	1.1	1.12		Styrene	ND	1.1	1.12	
Carbon Disulfide	ND	11	1.12		1,1,1,2-Tetrachloroethane	ND	1.1	1.12	
Carbon Tetrachloride	ND	1.1	1.12		1,1,2,2-Tetrachloroethane	ND	2.2	1.12	
Chlorobenzene	ND	1.1	1.12		Tetrachloroethene	ND	1.1	1.12	
Chloroethane	ND	2.2	1.12		Toluene	ND	1.1	1.12	
Chloroform	ND	1.1	1.12		1,2,3-Trichlorobenzene	ND	2.2	1.12	
Chloromethane	ND	22	1.12		1,2,4-Trichlorobenzene	ND	2.2	1.12	
2-Chlorotoluene	ND	1.1	1.12		1,1,1-Trichloroethane	ND	1.1	1.12	
4-Chlorotoluene	ND	1.1	1.12		1,1,2-Trichloroethane	ND	1.1	1.12	
Dibromochloromethane	ND	2.2	1.12		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.12	
1,2-Dibromo-3-Chloropropane	ND	5.6	1.12		Trichloroethene	ND	2.2	1.12	
1,2-Dibromoethane	ND	1.1	1.12		Trichlorofluoromethane	ND	11	1.12	
Dibromomethane	ND	1.1	1.12		1,2,3-Trichloropropane	ND	2.2	1.12	
1,2-Dichlorobenzene	ND	1.1	1.12		1,2,4-Trimethylbenzene	ND	2.2	1.12	
1,3-Dichlorobenzene	ND	1.1	1.12		1,3,5-Trimethylbenzene	ND	2.2	1.12	
1,4-Dichlorobenzene	ND	1.1	1.12		Vinyl Acetate	ND	11	1.12	
Dichlorodifluoromethane	ND	2.2	1.12		Vinyl Chloride	ND	1.1	1.12	
1,1-Dichloroethane	ND	1.1	1.12		p/m-Xylene	ND	2.2	1.12	
1,2-Dichloroethane	ND	1.1	1.12		o-Xylene	ND	1.1	1.12	
1,1-Dichloroethene	ND	1.1	1.12		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.12	
c-1,2-Dichloroethene	ND	1.1	1.12		Tert-Butyl Alcohol (TBA)	ND	22	1.12	
t-1,2-Dichloroethene	ND	1.1	1.12		Diisopropyl Ether (DIPE)	ND	1.1	1.12	
1,2-Dichloropropane	ND	1.1	1.12		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.12	
1,3-Dichloropropane	ND	1.1	1.12		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.12	
2,2-Dichloropropane	ND	5.6	1.12		Ethanol	ND	560	1.12	
1,1-Dichloropropene	ND	2.2	1.12						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	132	71-137		1,2-Dichloroethane-d4	142	58-160	
1,4-Bromofluorobenzene	77	66-126		Toluene-d8	94	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0351
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19A@1'	**09-12-0351-9-C**	**12/03/09 11:39**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 05:11**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	87	41	0.812		c-1,3-Dichloropropene	ND	0.81	0.812	
Benzene	ND	0.81	0.812		t-1,3-Dichloropropene	ND	1.6	0.812	
Bromobenzene	ND	0.81	0.812		Ethylbenzene	ND	0.81	0.812	
Bromochloromethane	ND	1.6	0.812		2-Hexanone	ND	16	0.812	
Bromodichloromethane	ND	0.81	0.812		Isopropylbenzene	ND	0.81	0.812	
Bromoform	ND	4.1	0.812		p-Isopropyltoluene	ND	0.81	0.812	
Bromomethane	ND	16	0.812		Methylene Chloride	ND	8.1	0.812	
2-Butanone	ND	16	0.812		4-Methyl-2-Pentanone	ND	16	0.812	
n-Butylbenzene	ND	0.81	0.812		Naphthalene	ND	8.1	0.812	
sec-Butylbenzene	ND	0.81	0.812		n-Propylbenzene	ND	1.6	0.812	
tert-Butylbenzene	ND	0.81	0.812		Styrene	ND	0.81	0.812	
Carbon Disulfide	ND	8.1	0.812		1,1,1,2-Tetrachloroethane	ND	0.81	0.812	
Carbon Tetrachloride	ND	0.81	0.812		1,1,2,2-Tetrachloroethane	ND	1.6	0.812	
Chlorobenzene	ND	0.81	0.812		Tetrachloroethene	ND	0.81	0.812	
Chloroethane	ND	1.6	0.812		Toluene	ND	0.81	0.812	
Chloroform	ND	0.81	0.812		1,2,3-Trichlorobenzene	ND	1.6	0.812	
Chloromethane	ND	16	0.812		1,2,4-Trichlorobenzene	ND	1.6	0.812	
2-Chlorotoluene	ND	0.81	0.812		1,1,1-Trichloroethane	ND	0.81	0.812	
4-Chlorotoluene	ND	0.81	0.812		1,1,2-Trichloroethane	ND	0.81	0.812	
Dibromochloromethane	ND	1.6	0.812		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.1	0.812	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.812		Trichloroethene	ND	1.6	0.812	
1,2-Dibromoethane	ND	0.81	0.812		Trichlorofluoromethane	ND	8.1	0.812	
Dibromomethane	ND	0.81	0.812		1,2,3-Trichloropropane	ND	1.6	0.812	
1,2-Dichlorobenzene	ND	0.81	0.812		1,2,4-Trimethylbenzene	ND	1.6	0.812	
1,3-Dichlorobenzene	ND	0.81	0.812		1,3,5-Trimethylbenzene	ND	1.6	0.812	
1,4-Dichlorobenzene	ND	0.81	0.812		Vinyl Acetate	ND	8.1	0.812	
Dichlorodifluoromethane	ND	1.6	0.812		Vinyl Chloride	ND	0.81	0.812	
1,1-Dichloroethane	ND	0.81	0.812		p/m-Xylene	ND	1.6	0.812	
1,2-Dichloroethane	ND	0.81	0.812		o-Xylene	ND	0.81	0.812	
1,1-Dichloroethene	ND	0.81	0.812		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.812	
c-1,2-Dichloroethene	ND	0.81	0.812		Tert-Butyl Alcohol (TBA)	ND	16	0.812	
t-1,2-Dichloroethene	ND	0.81	0.812		Diisopropyl Ether (DIPE)	ND	0.81	0.812	
1,2-Dichloropropane	ND	0.81	0.812		Ethyl-t-Butyl Ether (ETBE)	ND	0.81	0.812	
1,3-Dichloropropane	ND	0.81	0.812		Tert-Amyl-Methyl Ether (TAME)	ND	0.81	0.812	
2,2-Dichloropropane	ND	4.1	0.812		Ethanol	ND	410	0.812	
1,1-Dichloropropene	ND	1.6	0.812						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	134	71-137		1,2-Dichloroethane-d4	145	58-160	
1,4-Bromofluorobenzene	74	66-126		Toluene-d8	92	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19A@5'	**09-12-0351-10-D**	**12/03/09 11:51**	**Solid**	**GC/MS Z**	**12/03/09**	**12/05/09 15:41**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	53	1.06		c-1,3-Dichloropropene	ND	1.1	1.06	
Benzene	ND	1.1	1.06		t-1,3-Dichloropropene	ND	2.1	1.06	
Bromobenzene	ND	1.1	1.06		Ethylbenzene	ND	1.1	1.06	
Bromochloromethane	ND	2.1	1.06		2-Hexanone	ND	21	1.06	
Bromodichloromethane	ND	1.1	1.06		Isopropylbenzene	ND	1.1	1.06	
Bromoform	ND	5.3	1.06		p-Isopropyltoluene	ND	1.1	1.06	
Bromomethane	ND	21	1.06		Methylene Chloride	ND	11	1.06	
2-Butanone	ND	21	1.06		4-Methyl-2-Pentanone	ND	21	1.06	
n-Butylbenzene	ND	1.1	1.06		Naphthalene	ND	11	1.06	
sec-Butylbenzene	ND	1.1	1.06		n-Propylbenzene	ND	2.1	1.06	
tert-Butylbenzene	ND	1.1	1.06		Styrene	ND	1.1	1.06	
Carbon Disulfide	ND	11	1.06		1,1,1,2-Tetrachloroethane	ND	1.1	1.06	
Carbon Tetrachloride	ND	1.1	1.06		1,1,2,2-Tetrachloroethane	ND	2.1	1.06	
Chlorobenzene	ND	1.1	1.06		Tetrachloroethene	ND	1.1	1.06	
Chloroethane	ND	2.1	1.06		Toluene	ND	1.1	1.06	
Chloroform	ND	1.1	1.06		1,2,3-Trichlorobenzene	ND	2.1	1.06	
Chloromethane	ND	21	1.06		1,2,4-Trichlorobenzene	ND	2.1	1.06	
2-Chlorotoluene	ND	1.1	1.06		1,1,1-Trichloroethane	ND	1.1	1.06	
4-Chlorotoluene	ND	1.1	1.06		1,1,2-Trichloroethane	ND	1.1	1.06	
Dibromochloromethane	ND	2.1	1.06		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.06	
1,2-Dibromo-3-Chloropropane	ND	5.3	1.06		Trichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	1.1	1.06		Trichlorofluoromethane	ND	11	1.06	
Dibromomethane	ND	1.1	1.06		1,2,3-Trichloropropane	ND	2.1	1.06	
1,2-Dichlorobenzene	ND	1.1	1.06		1,2,4-Trimethylbenzene	ND	2.1	1.06	
1,3-Dichlorobenzene	ND	1.1	1.06		1,3,5-Trimethylbenzene	ND	2.1	1.06	
1,4-Dichlorobenzene	ND	1.1	1.06		Vinyl Acetate	ND	11	1.06	
Dichlorodifluoromethane	ND	2.1	1.06		Vinyl Chloride	ND	1.1	1.06	
1,1-Dichloroethane	ND	1.1	1.06		p/m-Xylene	ND	2.1	1.06	
1,2-Dichloroethane	ND	1.1	1.06		o-Xylene	ND	1.1	1.06	
1,1-Dichloroethene	ND	1.1	1.06		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.06	
c-1,2-Dichloroethene	ND	1.1	1.06		Tert-Butyl Alcohol (TBA)	ND	21	1.06	
t-1,2-Dichloroethene	ND	1.1	1.06		Diisopropyl Ether (DIPE)	ND	1.1	1.06	
1,2-Dichloropropane	ND	1.1	1.06		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.06	
1,3-Dichloropropane	ND	1.1	1.06		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.06	
2,2-Dichloropropane	ND	5.3	1.06		Ethanol	ND	530	1.06	
1,1-Dichloropropene	ND	2.1	1.06						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	94	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21A@1'	**09-12-0351-11-C**	**12/03/09 13:13**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 06:12**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	91	53	1.06		c-1,3-Dichloropropene	ND	1.1	1.06	
Benzene	ND	1.1	1.06		t-1,3-Dichloropropene	ND	2.1	1.06	
Bromobenzene	ND	1.1	1.06		Ethylbenzene	ND	1.1	1.06	
Bromochloromethane	ND	2.1	1.06		2-Hexanone	ND	21	1.06	
Bromodichloromethane	ND	1.1	1.06		Isopropylbenzene	ND	1.1	1.06	
Bromoform	ND	5.3	1.06		p-Isopropyltoluene	ND	1.1	1.06	
Bromomethane	ND	21	1.06		Methylene Chloride	ND	11	1.06	
2-Butanone	ND	21	1.06		4-Methyl-2-Pentanone	ND	21	1.06	
n-Butylbenzene	ND	1.1	1.06		Naphthalene	ND	11	1.06	
sec-Butylbenzene	ND	1.1	1.06		n-Propylbenzene	ND	2.1	1.06	
tert-Butylbenzene	ND	1.1	1.06		Styrene	ND	1.1	1.06	
Carbon Disulfide	ND	11	1.06		1,1,1,2-Tetrachloroethane	ND	1.1	1.06	
Carbon Tetrachloride	ND	1.1	1.06		1,1,2,2-Tetrachloroethane	ND	2.1	1.06	
Chlorobenzene	ND	1.1	1.06		Tetrachloroethene	ND	1.1	1.06	
Chloroethane	ND	2.1	1.06		Toluene	ND	1.1	1.06	
Chloroform	ND	1.1	1.06		1,2,3-Trichlorobenzene	ND	2.1	1.06	
Chloromethane	ND	21	1.06		1,2,4-Trichlorobenzene	ND	2.1	1.06	
2-Chlorotoluene	ND	1.1	1.06		1,1,1-Trichloroethane	ND	1.1	1.06	
4-Chlorotoluene	ND	1.1	1.06		1,1,2-Trichloroethane	ND	1.1	1.06	
Dibromochloromethane	ND	2.1	1.06		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.06	
1,2-Dibromo-3-Chloropropane	ND	5.3	1.06		Trichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	1.1	1.06		Trichlorofluoromethane	ND	11	1.06	
Dibromomethane	ND	1.1	1.06		1,2,3-Trichloropropane	ND	2.1	1.06	
1,2-Dichlorobenzene	ND	1.1	1.06		1,2,4-Trimethylbenzene	ND	2.1	1.06	
1,3-Dichlorobenzene	ND	1.1	1.06		1,3,5-Trimethylbenzene	ND	2.1	1.06	
1,4-Dichlorobenzene	ND	1.1	1.06		Vinyl Acetate	ND	11	1.06	
Dichlorodifluoromethane	ND	2.1	1.06		Vinyl Chloride	ND	1.1	1.06	
1,1-Dichloroethane	ND	1.1	1.06		p/m-Xylene	ND	2.1	1.06	
1,2-Dichloroethane	ND	1.1	1.06		o-Xylene	ND	1.1	1.06	
1,1-Dichloroethene	ND	1.1	1.06		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.06	
c-1,2-Dichloroethene	ND	1.1	1.06		Tert-Butyl Alcohol (TBA)	ND	21	1.06	
t-1,2-Dichloroethene	ND	1.1	1.06		Diisopropyl Ether (DIPE)	ND	1.1	1.06	
1,2-Dichloropropane	ND	1.1	1.06		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.06	
1,3-Dichloropropane	ND	1.1	1.06		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.06	
2,2-Dichloropropane	ND	5.3	1.06		Ethanol	ND	530	1.06	
1,1-Dichloropropene	ND	2.1	1.06						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	136	71-137		1,2-Dichloroethane-d4	146	58-160	
1,4-Bromofluorobenzene	76	66-126		Toluene-d8	92	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4A@1'	**09-12-0351-13-D**	**12/03/09 13:30**	**Solid**	**GC/MS Z**	**12/03/09**	**12/05/09 16:10**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	53	40	0.803		c-1,3-Dichloropropene	ND	0.80	0.803	
Benzene	ND	0.80	0.803		t-1,3-Dichloropropene	ND	1.6	0.803	
Bromobenzene	ND	0.80	0.803		Ethylbenzene	ND	0.80	0.803	
Bromochloromethane	ND	1.6	0.803		2-Hexanone	ND	16	0.803	
Bromodichloromethane	ND	0.80	0.803		Isopropylbenzene	ND	0.80	0.803	
Bromoform	ND	4.0	0.803		p-Isopropyltoluene	ND	0.80	0.803	
Bromomethane	ND	16	0.803		Methylene Chloride	ND	8.0	0.803	
2-Butanone	ND	16	0.803		4-Methyl-2-Pentanone	ND	16	0.803	
n-Butylbenzene	ND	0.80	0.803		Naphthalene	ND	8.0	0.803	
sec-Butylbenzene	ND	0.80	0.803		n-Propylbenzene	ND	1.6	0.803	
tert-Butylbenzene	ND	0.80	0.803		Styrene	ND	0.80	0.803	
Carbon Disulfide	ND	8.0	0.803		1,1,1,2-Tetrachloroethane	ND	0.80	0.803	
Carbon Tetrachloride	ND	0.80	0.803		1,1,2,2-Tetrachloroethane	ND	1.6	0.803	
Chlorobenzene	ND	0.80	0.803		Tetrachloroethene	ND	0.80	0.803	
Chloroethane	ND	1.6	0.803		Toluene	ND	0.80	0.803	
Chloroform	ND	0.80	0.803		1,2,3-Trichlorobenzene	ND	1.6	0.803	
Chloromethane	ND	16	0.803		1,2,4-Trichlorobenzene	ND	1.6	0.803	
2-Chlorotoluene	ND	0.80	0.803		1,1,1-Trichloroethane	ND	0.80	0.803	
4-Chlorotoluene	ND	0.80	0.803		1,1,2-Trichloroethane	ND	0.80	0.803	
Dibromochloromethane	ND	1.6	0.803		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.803	
1,2-Dibromo-3-Chloropropane	ND	4.0	0.803		Trichloroethene	ND	1.6	0.803	
1,2-Dibromoethane	ND	0.80	0.803		Trichlorofluoromethane	ND	8.0	0.803	
Dibromomethane	ND	0.80	0.803		1,2,3-Trichloropropane	ND	1.6	0.803	
1,2-Dichlorobenzene	ND	0.80	0.803		1,2,4-Trimethylbenzene	ND	1.6	0.803	
1,3-Dichlorobenzene	ND	0.80	0.803		1,3,5-Trimethylbenzene	ND	1.6	0.803	
1,4-Dichlorobenzene	ND	0.80	0.803		Vinyl Acetate	ND	8.0	0.803	
Dichlorodifluoromethane	ND	1.6	0.803		Vinyl Chloride	ND	0.80	0.803	
1,1-Dichloroethane	ND	0.80	0.803		p/m-Xylene	ND	1.6	0.803	
1,2-Dichloroethane	ND	0.80	0.803		o-Xylene	ND	0.80	0.803	
1,1-Dichloroethene	ND	0.80	0.803		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.803	
c-1,2-Dichloroethene	ND	0.80	0.803		Tert-Butyl Alcohol (TBA)	ND	16	0.803	
t-1,2-Dichloroethene	ND	0.80	0.803		Diisopropyl Ether (DIPE)	ND	0.80	0.803	
1,2-Dichloropropane	ND	0.80	0.803		Ethyl-t-Butyl Ether (ETBE)	ND	0.80	0.803	
1,3-Dichloropropane	ND	0.80	0.803		Tert-Amyl-Methyl Ether (TAME)	ND	0.80	0.803	
2,2-Dichloropropane	ND	4.0	0.803		Ethanol	ND	400	0.803	
1,1-Dichloropropene	ND	1.6	0.803						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	71-137		1,2-Dichloroethane-d4	118	58-160	
1,4-Bromofluorobenzene	93	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4A@5'	**09-12-0351-14-C**	**12/03/09 13:35**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 07:12**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	63	48	0.958		c-1,3-Dichloropropene	ND	0.96	0.958	
Benzene	ND	0.96	0.958		t-1,3-Dichloropropene	ND	1.9	0.958	
Bromobenzene	ND	0.96	0.958		Ethylbenzene	ND	0.96	0.958	
Bromochloromethane	ND	1.9	0.958		2-Hexanone	ND	19	0.958	
Bromodichloromethane	ND	0.96	0.958		Isopropylbenzene	ND	0.96	0.958	
Bromoform	ND	4.8	0.958		p-Isopropyltoluene	ND	0.96	0.958	
Bromomethane	ND	19	0.958		Methylene Chloride	ND	9.6	0.958	
2-Butanone	ND	19	0.958		4-Methyl-2-Pentanone	ND	19	0.958	
n-Butylbenzene	ND	0.96	0.958		Naphthalene	ND	9.6	0.958	
sec-Butylbenzene	ND	0.96	0.958		n-Propylbenzene	ND	1.9	0.958	
tert-Butylbenzene	ND	0.96	0.958		Styrene	ND	0.96	0.958	
Carbon Disulfide	ND	9.6	0.958		1,1,1,2-Tetrachloroethane	ND	0.96	0.958	
Carbon Tetrachloride	ND	0.96	0.958		1,1,2,2-Tetrachloroethane	ND	1.9	0.958	
Chlorobenzene	ND	0.96	0.958		Tetrachloroethene	ND	0.96	0.958	
Chloroethane	ND	1.9	0.958		Toluene	ND	0.96	0.958	
Chloroform	ND	0.96	0.958		1,2,3-Trichlorobenzene	ND	1.9	0.958	
Chloromethane	ND	19	0.958		1,2,4-Trichlorobenzene	ND	1.9	0.958	
2-Chlorotoluene	ND	0.96	0.958		1,1,1-Trichloroethane	ND	0.96	0.958	
4-Chlorotoluene	ND	0.96	0.958		1,1,2-Trichloroethane	ND	0.96	0.958	
Dibromochloromethane	ND	1.9	0.958		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.6	0.958	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.958		Trichloroethene	ND	1.9	0.958	
1,2-Dibromoethane	ND	0.96	0.958		Trichlorofluoromethane	ND	9.6	0.958	
Dibromomethane	ND	0.96	0.958		1,2,3-Trichloropropane	ND	1.9	0.958	
1,2-Dichlorobenzene	ND	0.96	0.958		1,2,4-Trimethylbenzene	ND	1.9	0.958	
1,3-Dichlorobenzene	ND	0.96	0.958		1,3,5-Trimethylbenzene	ND	1.9	0.958	
1,4-Dichlorobenzene	ND	0.96	0.958		Vinyl Acetate	ND	9.6	0.958	
Dichlorodifluoromethane	ND	1.9	0.958		Vinyl Chloride	ND	0.96	0.958	
1,1-Dichloroethane	ND	0.96	0.958		p/m-Xylene	ND	1.9	0.958	
1,2-Dichloroethane	ND	0.96	0.958		o-Xylene	ND	0.96	0.958	
1,1-Dichloroethene	ND	0.96	0.958		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.958	
c-1,2-Dichloroethene	ND	0.96	0.958		Tert-Butyl Alcohol (TBA)	ND	19	0.958	
t-1,2-Dichloroethene	ND	0.96	0.958		Diisopropyl Ether (DIPE)	ND	0.96	0.958	
1,2-Dichloropropane	ND	0.96	0.958		Ethyl-t-Butyl Ether (ETBE)	ND	0.96	0.958	
1,3-Dichloropropane	ND	0.96	0.958		Tert-Amyl-Methyl Ether (TAME)	ND	0.96	0.958	
2,2-Dichloropropane	ND	4.8	0.958		Ethanol	ND	480	0.958	
1,1-Dichloropropene	ND	1.9	0.958						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	135	71-137		1,2-Dichloroethane-d4	144	58-160	
1,4-Bromofluorobenzene	74	66-126		Toluene-d8	96	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-68A@1'	**09-12-0351-15-C**	**12/03/09 13:58**	**Solid**	**GC/MS Q**	**12/03/09**	**12/05/09 07:42**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	133	71-137		1,2-Dichloroethane-d4	146	58-160	
1,4-Bromofluorobenzene	75	66-126		Toluene-d8	93	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0351
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-68A@5'	**09-12-0351-16-D**	**12/03/09 14:07**	**Solid**	**GC/MS Z**	**12/03/09**	**12/05/09 16:39**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	45	0.906		c-1,3-Dichloropropene	ND	0.91	0.906	
Benzene	ND	0.91	0.906		t-1,3-Dichloropropene	ND	1.8	0.906	
Bromobenzene	ND	0.91	0.906		Ethylbenzene	ND	0.91	0.906	
Bromochloromethane	ND	1.8	0.906		2-Hexanone	ND	18	0.906	
Bromodichloromethane	ND	0.91	0.906		Isopropylbenzene	ND	0.91	0.906	
Bromoform	ND	4.5	0.906		p-Isopropyltoluene	ND	0.91	0.906	
Bromomethane	ND	18	0.906		Methylene Chloride	ND	9.1	0.906	
2-Butanone	ND	18	0.906		4-Methyl-2-Pentanone	ND	18	0.906	
n-Butylbenzene	ND	0.91	0.906		Naphthalene	ND	9.1	0.906	
sec-Butylbenzene	ND	0.91	0.906		n-Propylbenzene	ND	1.8	0.906	
tert-Butylbenzene	ND	0.91	0.906		Styrene	ND	0.91	0.906	
Carbon Disulfide	ND	9.1	0.906		1,1,1,2-Tetrachloroethane	ND	0.91	0.906	
Carbon Tetrachloride	ND	0.91	0.906		1,1,2,2-Tetrachloroethane	ND	1.8	0.906	
Chlorobenzene	ND	0.91	0.906		Tetrachloroethene	ND	0.91	0.906	
Chloroethane	ND	1.8	0.906		Toluene	ND	0.91	0.906	
Chloroform	ND	0.91	0.906		1,2,3-Trichlorobenzene	ND	1.8	0.906	
Chloromethane	ND	18	0.906		1,2,4-Trichlorobenzene	ND	1.8	0.906	
2-Chlorotoluene	ND	0.91	0.906		1,1,1-Trichloroethane	ND	0.91	0.906	
4-Chlorotoluene	ND	0.91	0.906		1,1,2-Trichloroethane	ND	0.91	0.906	
Dibromochloromethane	ND	1.8	0.906		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.1	0.906	
1,2-Dibromo-3-Chloropropane	ND	4.5	0.906		Trichloroethene	ND	1.8	0.906	
1,2-Dibromoethane	ND	0.91	0.906		Trichlorofluoromethane	ND	9.1	0.906	
Dibromomethane	ND	0.91	0.906		1,2,3-Trichloropropane	ND	1.8	0.906	
1,2-Dichlorobenzene	ND	0.91	0.906		1,2,4-Trimethylbenzene	ND	1.8	0.906	
1,3-Dichlorobenzene	ND	0.91	0.906		1,3,5-Trimethylbenzene	ND	1.8	0.906	
1,4-Dichlorobenzene	ND	0.91	0.906		Vinyl Acetate	ND	9.1	0.906	
Dichlorodifluoromethane	ND	1.8	0.906		Vinyl Chloride	ND	0.91	0.906	
1,1-Dichloroethane	ND	0.91	0.906		p/m-Xylene	ND	1.8	0.906	
1,2-Dichloroethane	ND	0.91	0.906		o-Xylene	ND	0.91	0.906	
1,1-Dichloroethene	ND	0.91	0.906		Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.906	
c-1,2-Dichloroethene	ND	0.91	0.906		Tert-Butyl Alcohol (TBA)	ND	18	0.906	
t-1,2-Dichloroethene	ND	0.91	0.906		Diisopropyl Ether (DIPE)	ND	0.91	0.906	
1,2-Dichloropropane	ND	0.91	0.906		Ethyl-t-Butyl Ether (ETBE)	ND	0.91	0.906	
1,3-Dichloropropane	ND	0.91	0.906		Tert-Amyl-Methyl Ether (TAME)	ND	0.91	0.906	
2,2-Dichloropropane	ND	4.5	0.906		Ethanol	ND	450	0.906	
1,1-Dichloropropene	ND	1.8	0.906						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,561**	**N/A**	**Solid**	**GC/MS T**	**12/04/09**	**12/04/09 12:54**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	106	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,563**	**N/A**	**Solid**	**GC/MS Q**	**12/04/09**	**12/05/09 01:40**	**091204L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	130	71-137		1,2-Dichloroethane-d4	127	58-160	
1,4-Bromofluorobenzene	74	66-126		Toluene-d8	94	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,568**	**N/A**	**Solid**	**GC/MS Z**	**12/05/09**	**12/05/09 12:17**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	109	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21A@5'	**09-12-0351-12-A**	**12/03/09 13:20**	**Solid**	**GC/MS JJ**	**12/05/09**	**12/05/09 18:28**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		c-1,3-Dichloropropene	ND	5.0	1	
Benzene	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromobenzene	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		2-Hexanone	ND	50	1	
Bromodichloromethane	ND	5.0	1		Isopropylbenzene	ND	5.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
Bromomethane	ND	25	1		Methylene Chloride	ND	50	1	
2-Butanone	ND	50	1		4-Methyl-2-Pentanone	ND	50	1	
n-Butylbenzene	ND	5.0	1		Naphthalene	ND	50	1	
sec-Butylbenzene	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
tert-Butylbenzene	ND	5.0	1		Styrene	ND	5.0	1	
Carbon Disulfide	ND	50	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Carbon Tetrachloride	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Tetrachloroethene	ND	5.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	5.0	1	
Chloroform	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Chloromethane	ND	25	1		1,2,4-Trichlorobenzene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		1,1,1-Trichloroethane	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromochloromethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		Trichloroethene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,3-Dichlorobenzene	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		Vinyl Acetate	ND	50	1	
Dichlorodifluoromethane	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
1,1-Dichloroethane	ND	5.0	1		p/m-Xylene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		o-Xylene	ND	5.0	1	
1,1-Dichloroethene	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
t-1,2-Dichloroethene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
1,2-Dichloropropane	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
1,3-Dichloropropane	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	250	1	
1,1-Dichloropropene	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	71-137		1,2-Dichloroethane-d4	106	58-160	
Toluene-d8	100	87-111		1,4-Bromofluorobenzene	95	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0351
Emeryville, CA 94608-1811		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-2,601**	**N/A**	**Solid**	**GC/MS JJ**	**12/05/09**	**12/05/09 13:54**	**091205L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		c-1,3-Dichloropropene	ND	5.0	1	
Benzene	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromobenzene	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		2-Hexanone	ND	50	1	
Bromodichloromethane	ND	5.0	1		Isopropylbenzene	ND	5.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
Bromomethane	ND	25	1		Methylene Chloride	ND	50	1	
2-Butanone	ND	50	1		4-Methyl-2-Pentanone	ND	50	1	
n-Butylbenzene	ND	5.0	1		Naphthalene	ND	50	1	
sec-Butylbenzene	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
tert-Butylbenzene	ND	5.0	1		Styrene	ND	5.0	1	
Carbon Disulfide	ND	50	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Carbon Tetrachloride	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Tetrachloroethene	ND	5.0	1	
Chloroethane	ND	5.0	1		Toluene	ND	5.0	1	
Chloroform	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Chloromethane	ND	25	1		1,2,4-Trichlorobenzene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		1,1,1-Trichloroethane	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromochloromethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		Trichloroethene	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,3-Dichlorobenzene	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		Vinyl Acetate	ND	50	1	
Dichlorodifluoromethane	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
1,1-Dichloroethane	ND	5.0	1		p/m-Xylene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		o-Xylene	ND	5.0	1	
1,1-Dichloroethene	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		Tert-Butyl Alcohol (TBA)	ND	50	1	
t-1,2-Dichloroethene	ND	5.0	1		Diisopropyl Ether (DIPE)	ND	10	1	
1,2-Dichloropropane	ND	5.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	10	1	
1,3-Dichloropropane	ND	5.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	10	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	250	1	
1,1-Dichloropropene	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	71-137		1,2-Dichloroethane-d4	105	58-160	
Toluene-d8	100	87-111		1,4-Bromofluorobenzene	95	66-126	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0351
Preparation:	EPA 5030B
Method:	EPA 8260B

Project PG&E Oakley / RC000746.0002.00007 / Radback

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-2073-3	**Solid**	**GC/MS JJ**	**12/05/09**	**12/05/09**	**091205S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	98	78-114	1	0-14	
Chloroform	93	95	80-120	3	0-20	
1,1-Dichloroethane	95	98	80-120	4	0-20	
1,2-Dichloroethane	89	90	80-120	1	0-20	
1,1-Dichloroethene	93	95	73-127	3	0-21	
Ethanol	84	76	45-135	9	0-29	
Tetrachloroethene	126	133	80-120	5	0-20	3
Toluene	91	91	74-116	0	0-16	
Trichloroethene	96	96	74-122	0	0-17	
Methyl-t-Butyl Ether (MTBE)	94	93	69-123	0	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-12-0351
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,561	**Solid**	**GC/MS T**	**12/04/09**	**12/04/09**	**091204L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	107	108	85-115	80-120	1	0-11	
Carbon Tetrachloride	98	98	68-134	57-145	1	0-14	
Chlorobenzene	105	105	83-119	77-125	0	0-9	
1,2-Dibromoethane	106	106	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	105	106	57-135	44-148	1	0-10	
1,1-Dichloroethene	105	104	72-120	64-128	1	0-10	
Ethylbenzene	111	110	80-120	73-127	1	0-20	
Toluene	106	105	67-127	57-137	1	0-10	
Trichloroethene	102	102	88-112	84-116	0	0-9	
Vinyl Chloride	89	89	57-129	45-141	0	0-16	
Methyl-t-Butyl Ether (MTBE)	92	91	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	129	110	31-145	12-164	16	0-23	
Diisopropyl Ether (DIPE)	100	100	74-128	65-137	1	0-10	
Ethyl-t-Butyl Ether (ETBE)	95	97	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	93	93	81-123	74-130	0	0-10	
Ethanol	134	112	44-152	26-170	18	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-12-0351
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,563	**Solid**	**GC/MS Q**	**12/04/09**	**12/04/09**	**091204L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	106	102	85-115	80-120	4	0-11	
Carbon Tetrachloride	91	90	68-134	57-145	2	0-14	
Chlorobenzene	102	99	83-119	77-125	3	0-9	
1,2-Dibromoethane	109	105	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	90	88	57-135	44-148	3	0-10	
1,1-Dichloroethene	95	91	72-120	64-128	4	0-10	
Ethylbenzene	113	109	80-120	73-127	3	0-20	
Toluene	109	105	67-127	57-137	4	0-10	
Trichloroethene	107	104	88-112	84-116	2	0-9	
Vinyl Chloride	90	87	57-129	45-141	3	0-16	
Methyl-t-Butyl Ether (MTBE)	77	76	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	100	93	31-145	12-164	7	0-23	
Diisopropyl Ether (DIPE)	98	96	74-128	65-137	2	0-10	
Ethyl-t-Butyl Ether (ETBE)	90	88	77-125	69-133	3	0-9	
Tert-Amyl-Methyl Ether (TAME)	96	93	81-123	74-130	3	0-10	
Ethanol	110	100	44-152	26-170	10	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-12-0351
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,568	**Solid**	**GC/MS Z**	**12/05/09**	**12/05/09**	**091205L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	95	94	85-115	80-120	1	0-11	
Carbon Tetrachloride	98	98	68-134	57-145	0	0-14	
Chlorobenzene	98	97	83-119	77-125	2	0-9	
1,2-Dibromoethane	102	102	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	98	57-135	44-148	1	0-10	
1,1-Dichloroethene	92	92	72-120	64-128	0	0-10	
Ethylbenzene	101	98	80-120	73-127	3	0-20	
Toluene	96	94	67-127	57-137	2	0-10	
Trichloroethene	95	95	88-112	84-116	0	0-9	
Vinyl Chloride	92	92	57-129	45-141	1	0-16	
Methyl-t-Butyl Ether (MTBE)	79	81	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	105	101	31-145	12-164	4	0-23	
Diisopropyl Ether (DIPE)	77	77	74-128	65-137	1	0-10	
Ethyl-t-Butyl Ether (ETBE)	81	82	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	83	83	81-123	74-130	1	0-10	
Ethanol	132	123	44-152	26-170	7	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-12-0351
Preparation:	EPA 5030B
Method:	EPA 8260B

Project: PG&E Oakley / RC000746.0002.00007 / Radback

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-2,601	**Solid**	**GC/MS JJ**	**12/05/09**	**12/05/09**	**091205L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	104	101	85-115	80-120	3	0-11	
Carbon Tetrachloride	101	100	68-134	57-145	1	0-14	
Chlorobenzene	97	96	83-119	77-125	1	0-9	
1,2-Dibromoethane	101	101	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	98	97	57-135	44-148	1	0-10	
1,1-Dichloroethene	93	93	72-120	64-128	0	0-10	
Ethylbenzene	100	98	80-120	73-127	2	0-20	
Toluene	96	94	67-127	57-137	3	0-10	
Trichloroethene	101	98	88-112	84-116	3	0-9	
Vinyl Chloride	97	90	57-129	45-141	8	0-16	
Methyl-t-Butyl Ether (MTBE)	98	100	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	93	95	31-145	12-164	3	0-23	
Diisopropyl Ether (DIPE)	98	100	74-128	65-137	2	0-10	
Ethyl-t-Butyl Ether (ETBE)	97	101	77-125	69-133	4	0-9	
Tert-Amyl-Methyl Ether (TAME)	100	102	81-123	74-130	1	0-10	
Ethanol	88	98	44-152	26-170	11	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-12-0351

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000746.0002.00007/Radback

Project Location Oakley, CA

Laboratory Cal Science

Project Manager J. Maehr / KB

Sampler(s)/Affiliation AV

0351

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Low Level VOCs						Remarks	Total	
SB-34A@1'	S	12/03 10:37	1	X						24h TAT	7	4
SB-34A@5'		10:43	2								7	4
SB-38A@1'		10:55	3								7	4
SB-38A@5'		11:05	4								7	4
SB-18A@1'		11:09	5								7	4
SB-18A@5'		11:18	6								7	4
SB-40A@1'		11:25	7								7	4
SB-40A@5'		11:35	8								7	4
SB-19A@1'		11:39	9								7	4
SB-19A@5'		11:51	10								7	4
SB-~~E~~21A@1'		13:13	11								7	4
SB-21A@5'		13:20	12								7	4
SB-4A@1'		13:30	13								7	4
SB-4A@5'		13:35	14								7	4
~~SB-68A@1'~~		~~13:58~~	~~15~~								~~7~~	~~4~~
~~SB-68A@5'~~	S	12/03 ~~14:07~~	~~16~~	X							~~7~~	~~4~~
										Total No. of Bottles/ Containers	~~112~~	64

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: Andrea Valdivia	Organization: ARCADIS	Date 12/03/09	Time 1650	Seal Intact? Yes No N/A
Received by:	Organization: CEL	Date 12/03/09	Time 1650	
Relinquished by: to GSD	Organization: CEL	Date 12/03/09	Time 1730	Seal Intact? Yes No N/A
Received by:	Organization: CEL	Date 12/14/09	Time 1000	

Special Instructions/Remarks:

513/41345

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-12-0351

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 12/04/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.6 °C - 0.8 °C (CF) = 3.8 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** HP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** HP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑3 TerraCores® ☑ 2 oz PJ

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** YL

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** YL

Preservative: **h:** HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** YL

Calscience Environmental Laboratories, Inc.

December 07, 2009

Kathy Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Subject: **Calscience Work Order No.: 09-12-0352**
Client Reference: PG&E Oakley / RC746.2.6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/4/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Danielle Gonsman
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4A@1	**09-12-0352-1-A**	**12/03/09 08:35**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 01:10**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	97	50-130		2,4,5,6-Tetrachloro-m-Xylene	101	50-130	

SB-CPT4A@5	**09-12-0352-2-A**	**12/03/09 08:43**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 01:28**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	74	50-130		2,4,5,6-Tetrachloro-m-Xylene	75	50-130	

SB-CPT4A@10	**09-12-0352-3-A**	**12/03/09 09:00**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 01:46**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-130		2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

SB-CPT4WI@1	**09-12-0352-4-A**	**12/03/09 08:37**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 02:04**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	50-130		2,4,5,6-Tetrachloro-m-Xylene	80	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4WI@5	**09-12-0352-5-A**	**12/03/09 08:44**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 02:22**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	93	50-130		2,4,5,6-Tetrachloro-m-Xylene	96	50-130	

SB-CPT4WI@10	**09-12-0352-6-A**	**12/03/09 08:57**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 02:40**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	50-130		2,4,5,6-Tetrachloro-m-Xylene	85	50-130	

SB-CPT4SI@1	**09-12-0352-7-A**	**12/03/09 09:00**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 02:58**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-130		2,4,5,6-Tetrachloro-m-Xylene	95	50-130	

SB-CPT4SI@5	**09-12-0352-8-A**	**12/03/09 09:11**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 03:16**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	92	50-130		2,4,5,6-Tetrachloro-m-Xylene	95	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 3545
Method:	EPA 8082
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4SI@10	**09-12-0352-9-A**	**12/03/09 09:28**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 03:34**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	50-130		2,4,5,6-Tetrachloro-m-Xylene	88	50-130	

SB-CPT4NI@1	**09-12-0352-10-A**	**12/03/09 09:10**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 03:52**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	50-130		2,4,5,6-Tetrachloro-m-Xylene	90	50-130	

SB-CPT4NI@5	**09-12-0352-11-A**	**12/03/09 09:16**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 04:10**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	98	50-130		2,4,5,6-Tetrachloro-m-Xylene	101	50-130	

SB-CPT4NI@10	**09-12-0352-12-A**	**12/03/09 09:31**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 04:28**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	80	50-130		2,4,5,6-Tetrachloro-m-Xylene	84	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-826**	**N/A**	**Solid**	**GC 58**	**12/04/09**	**12/05/09 00:52**	**091204L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	50-130		2,4,5,6-Tetrachloro-m-Xylene	101	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 1 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4A@1	**09-12-0352-1-D**	**12/03/09 08:35**	**Solid**	**GC/MS QQ**	**12/03/09**	**12/04/09 18:19**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	54	1.07		c-1,3-Dichloropropene	ND	1.1	1.07	
Benzene	ND	1.1	1.07		t-1,3-Dichloropropene	ND	2.1	1.07	
Bromobenzene	ND	1.1	1.07		Ethylbenzene	ND	1.1	1.07	
Bromochloromethane	ND	2.1	1.07		2-Hexanone	ND	21	1.07	
Bromodichloromethane	ND	1.1	1.07		Isopropylbenzene	ND	1.1	1.07	
Bromoform	ND	5.4	1.07		p-Isopropyltoluene	ND	1.1	1.07	
Bromomethane	ND	21	1.07		Methylene Chloride	ND	11	1.07	
2-Butanone	ND	21	1.07		4-Methyl-2-Pentanone	ND	21	1.07	
n-Butylbenzene	ND	1.1	1.07		Naphthalene	ND	11	1.07	
sec-Butylbenzene	ND	1.1	1.07		n-Propylbenzene	ND	2.1	1.07	
tert-Butylbenzene	ND	1.1	1.07		Styrene	ND	1.1	1.07	
Carbon Disulfide	ND	11	1.07		1,1,1,2-Tetrachloroethane	ND	1.1	1.07	
Carbon Tetrachloride	ND	1.1	1.07		1,1,2,2-Tetrachloroethane	ND	2.1	1.07	
Chlorobenzene	ND	1.1	1.07		Tetrachloroethene	ND	1.1	1.07	
Chloroethane	ND	2.1	1.07		Toluene	ND	1.1	1.07	
Chloroform	ND	1.1	1.07		1,2,3-Trichlorobenzene	ND	2.1	1.07	
Chloromethane	ND	21	1.07		1,2,4-Trichlorobenzene	ND	2.1	1.07	
2-Chlorotoluene	ND	1.1	1.07		1,1,1-Trichloroethane	ND	1.1	1.07	
4-Chlorotoluene	ND	1.1	1.07		1,1,2-Trichloroethane	ND	1.1	1.07	
Dibromochloromethane	ND	2.1	1.07		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.07	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.07		Trichloroethene	ND	2.1	1.07	
1,2-Dibromoethane	ND	1.1	1.07		Trichlorofluoromethane	ND	11	1.07	
Dibromomethane	ND	1.1	1.07		1,2,3-Trichloropropane	ND	2.1	1.07	
1,2-Dichlorobenzene	ND	1.1	1.07		1,2,4-Trimethylbenzene	ND	2.1	1.07	
1,3-Dichlorobenzene	ND	1.1	1.07		1,3,5-Trimethylbenzene	ND	2.1	1.07	
1,4-Dichlorobenzene	ND	1.1	1.07		Vinyl Acetate	ND	11	1.07	
Dichlorodifluoromethane	ND	2.1	1.07		Vinyl Chloride	ND	1.1	1.07	
1,1-Dichloroethane	ND	1.1	1.07		p/m-Xylene	ND	2.1	1.07	
1,2-Dichloroethane	ND	1.1	1.07		o-Xylene	ND	1.1	1.07	
1,1-Dichloroethene	ND	1.1	1.07		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.07	
c-1,2-Dichloroethene	ND	1.1	1.07		Tert-Butyl Alcohol (TBA)	ND	21	1.07	
t-1,2-Dichloroethene	ND	1.1	1.07		Diisopropyl Ether (DIPE)	ND	1.1	1.07	
1,2-Dichloropropane	ND	1.1	1.07		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.07	
1,3-Dichloropropane	ND	1.1	1.07		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.07	
2,2-Dichloropropane	ND	5.4	1.07		Ethanol	ND	540	1.07	
1,1-Dichloropropene	ND	2.1	1.07						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	130	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4A@5	**09-12-0352-2-D**	**12/03/09 08:43**	**Solid**	**GC/MS QQ**	**12/03/09**	**12/04/09 18:45**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	54	1.08		c-1,3-Dichloropropene	ND	1.1	1.08	
Benzene	ND	1.1	1.08		t-1,3-Dichloropropene	ND	2.2	1.08	
Bromobenzene	ND	1.1	1.08		Ethylbenzene	ND	1.1	1.08	
Bromochloromethane	ND	2.2	1.08		2-Hexanone	ND	22	1.08	
Bromodichloromethane	ND	1.1	1.08		Isopropylbenzene	ND	1.1	1.08	
Bromoform	ND	5.4	1.08		p-Isopropyltoluene	ND	1.1	1.08	
Bromomethane	ND	22	1.08		Methylene Chloride	ND	11	1.08	
2-Butanone	ND	22	1.08		4-Methyl-2-Pentanone	ND	22	1.08	
n-Butylbenzene	ND	1.1	1.08		Naphthalene	ND	11	1.08	
sec-Butylbenzene	ND	1.1	1.08		n-Propylbenzene	ND	2.2	1.08	
tert-Butylbenzene	ND	1.1	1.08		Styrene	ND	1.1	1.08	
Carbon Disulfide	ND	11	1.08		1,1,1,2-Tetrachloroethane	ND	1.1	1.08	
Carbon Tetrachloride	ND	1.1	1.08		1,1,2,2-Tetrachloroethane	ND	2.2	1.08	
Chlorobenzene	ND	1.1	1.08		Tetrachloroethene	ND	1.1	1.08	
Chloroethane	ND	2.2	1.08		Toluene	ND	1.1	1.08	
Chloroform	ND	1.1	1.08		1,2,3-Trichlorobenzene	ND	2.2	1.08	
Chloromethane	ND	22	1.08		1,2,4-Trichlorobenzene	ND	2.2	1.08	
2-Chlorotoluene	ND	1.1	1.08		1,1,1-Trichloroethane	ND	1.1	1.08	
4-Chlorotoluene	ND	1.1	1.08		1,1,2-Trichloroethane	ND	1.1	1.08	
Dibromochloromethane	ND	2.2	1.08		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.08	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.08		Trichloroethene	ND	2.2	1.08	
1,2-Dibromoethane	ND	1.1	1.08		Trichlorofluoromethane	ND	11	1.08	
Dibromomethane	ND	1.1	1.08		1,2,3-Trichloropropane	ND	2.2	1.08	
1,2-Dichlorobenzene	ND	1.1	1.08		1,2,4-Trimethylbenzene	ND	2.2	1.08	
1,3-Dichlorobenzene	ND	1.1	1.08		1,3,5-Trimethylbenzene	ND	2.2	1.08	
1,4-Dichlorobenzene	ND	1.1	1.08		Vinyl Acetate	ND	11	1.08	
Dichlorodifluoromethane	ND	2.2	1.08		Vinyl Chloride	ND	1.1	1.08	
1,1-Dichloroethane	ND	1.1	1.08		p/m-Xylene	ND	2.2	1.08	
1,2-Dichloroethane	ND	1.1	1.08		o-Xylene	ND	1.1	1.08	
1,1-Dichloroethene	ND	1.1	1.08		Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.08	
c-1,2-Dichloroethene	ND	1.1	1.08		Tert-Butyl Alcohol (TBA)	ND	22	1.08	
t-1,2-Dichloroethene	ND	1.1	1.08		Diisopropyl Ether (DIPE)	ND	1.1	1.08	
1,2-Dichloropropane	ND	1.1	1.08		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.08	
1,3-Dichloropropane	ND	1.1	1.08		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.08	
2,2-Dichloropropane	ND	5.4	1.08		Ethanol	ND	540	1.08	
1,1-Dichloropropene	ND	2.2	1.08						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	71-137		1,2-Dichloroethane-d4	128	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 3 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4A@10	**09-12-0352-3-D**	**12/03/09 09:00**	**Solid**	**GC/MS QQ**	**12/03/09**	**12/04/09 19:11**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	46	0.929		c-1,3-Dichloropropene	ND	0.93	0.929	
Benzene	ND	0.93	0.929		t-1,3-Dichloropropene	ND	1.9	0.929	
Bromobenzene	ND	0.93	0.929		Ethylbenzene	ND	0.93	0.929	
Bromochloromethane	ND	1.9	0.929		2-Hexanone	ND	19	0.929	
Bromodichloromethane	ND	0.93	0.929		Isopropylbenzene	ND	0.93	0.929	
Bromoform	ND	4.6	0.929		p-Isopropyltoluene	ND	0.93	0.929	
Bromomethane	ND	19	0.929		Methylene Chloride	ND	9.3	0.929	
2-Butanone	ND	19	0.929		4-Methyl-2-Pentanone	ND	19	0.929	
n-Butylbenzene	ND	0.93	0.929		Naphthalene	ND	9.3	0.929	
sec-Butylbenzene	ND	0.93	0.929		n-Propylbenzene	ND	1.9	0.929	
tert-Butylbenzene	ND	0.93	0.929		Styrene	ND	0.93	0.929	
Carbon Disulfide	ND	9.3	0.929		1,1,1,2-Tetrachloroethane	ND	0.93	0.929	
Carbon Tetrachloride	ND	0.93	0.929		1,1,2,2-Tetrachloroethane	ND	1.9	0.929	
Chlorobenzene	ND	0.93	0.929		Tetrachloroethene	ND	0.93	0.929	
Chloroethane	ND	1.9	0.929		Toluene	ND	0.93	0.929	
Chloroform	ND	0.93	0.929		1,2,3-Trichlorobenzene	ND	1.9	0.929	
Chloromethane	ND	19	0.929		1,2,4-Trichlorobenzene	ND	1.9	0.929	
2-Chlorotoluene	ND	0.93	0.929		1,1,1-Trichloroethane	ND	0.93	0.929	
4-Chlorotoluene	ND	0.93	0.929		1,1,2-Trichloroethane	ND	0.93	0.929	
Dibromochloromethane	ND	1.9	0.929		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	0.929	
1,2-Dibromo-3-Chloropropane	ND	4.6	0.929		Trichloroethene	ND	1.9	0.929	
1,2-Dibromoethane	ND	0.93	0.929		Trichlorofluoromethane	ND	9.3	0.929	
Dibromomethane	ND	0.93	0.929		1,2,3-Trichloropropane	ND	1.9	0.929	
1,2-Dichlorobenzene	ND	0.93	0.929		1,2,4-Trimethylbenzene	ND	1.9	0.929	
1,3-Dichlorobenzene	ND	0.93	0.929		1,3,5-Trimethylbenzene	ND	1.9	0.929	
1,4-Dichlorobenzene	ND	0.93	0.929		Vinyl Acetate	ND	9.3	0.929	
Dichlorodifluoromethane	ND	1.9	0.929		Vinyl Chloride	ND	0.93	0.929	
1,1-Dichloroethane	ND	0.93	0.929		p/m-Xylene	ND	1.9	0.929	
1,2-Dichloroethane	ND	0.93	0.929		o-Xylene	ND	0.93	0.929	
1,1-Dichloroethene	ND	0.93	0.929		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.929	
c-1,2-Dichloroethene	ND	0.93	0.929		Tert-Butyl Alcohol (TBA)	ND	19	0.929	
t-1,2-Dichloroethene	ND	0.93	0.929		Diisopropyl Ether (DIPE)	ND	0.93	0.929	
1,2-Dichloropropane	ND	0.93	0.929		Ethyl-t-Butyl Ether (ETBE)	ND	0.93	0.929	
1,3-Dichloropropane	ND	0.93	0.929		Tert-Amyl-Methyl Ether (TAME)	ND	0.93	0.929	
2,2-Dichloropropane	ND	4.6	0.929		Ethanol	ND	460	0.929	
1,1-Dichloropropene	ND	1.9	0.929						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	134	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4WI@1	**09-12-0352-4-D**	**12/03/09 08:37**	**Solid**	**GC/MS QQ**	**12/03/09**	**12/04/09 19:37**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	53	1.06		c-1,3-Dichloropropene	ND	1.1	1.06	
Benzene	ND	1.1	1.06		t-1,3-Dichloropropene	ND	2.1	1.06	
Bromobenzene	ND	1.1	1.06		Ethylbenzene	ND	1.1	1.06	
Bromochloromethane	ND	2.1	1.06		2-Hexanone	ND	21	1.06	
Bromodichloromethane	ND	1.1	1.06		Isopropylbenzene	ND	1.1	1.06	
Bromoform	ND	5.3	1.06		p-Isopropyltoluene	ND	1.1	1.06	
Bromomethane	ND	21	1.06		Methylene Chloride	ND	11	1.06	
2-Butanone	ND	21	1.06		4-Methyl-2-Pentanone	ND	21	1.06	
n-Butylbenzene	ND	1.1	1.06		Naphthalene	ND	11	1.06	
sec-Butylbenzene	ND	1.1	1.06		n-Propylbenzene	ND	2.1	1.06	
tert-Butylbenzene	ND	1.1	1.06		Styrene	ND	1.1	1.06	
Carbon Disulfide	ND	11	1.06		1,1,1,2-Tetrachloroethane	ND	1.1	1.06	
Carbon Tetrachloride	ND	1.1	1.06		1,1,2,2-Tetrachloroethane	ND	2.1	1.06	
Chlorobenzene	ND	1.1	1.06		Tetrachloroethene	ND	1.1	1.06	
Chloroethane	ND	2.1	1.06		Toluene	ND	1.1	1.06	
Chloroform	ND	1.1	1.06		1,2,3-Trichlorobenzene	ND	2.1	1.06	
Chloromethane	ND	21	1.06		1,2,4-Trichlorobenzene	ND	2.1	1.06	
2-Chlorotoluene	ND	1.1	1.06		1,1,1-Trichloroethane	ND	1.1	1.06	
4-Chlorotoluene	ND	1.1	1.06		1,1,2-Trichloroethane	ND	1.1	1.06	
Dibromochloromethane	ND	2.1	1.06		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.06	
1,2-Dibromo-3-Chloropropane	ND	5.3	1.06		Trichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	1.1	1.06		Trichlorofluoromethane	ND	11	1.06	
Dibromomethane	ND	1.1	1.06		1,2,3-Trichloropropane	ND	2.1	1.06	
1,2-Dichlorobenzene	ND	1.1	1.06		1,2,4-Trimethylbenzene	ND	2.1	1.06	
1,3-Dichlorobenzene	ND	1.1	1.06		1,3,5-Trimethylbenzene	ND	2.1	1.06	
1,4-Dichlorobenzene	ND	1.1	1.06		Vinyl Acetate	ND	11	1.06	
Dichlorodifluoromethane	ND	2.1	1.06		Vinyl Chloride	ND	1.1	1.06	
1,1-Dichloroethane	ND	1.1	1.06		p/m-Xylene	ND	2.1	1.06	
1,2-Dichloroethane	ND	1.1	1.06		o-Xylene	ND	1.1	1.06	
1,1-Dichloroethene	ND	1.1	1.06		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.06	
c-1,2-Dichloroethene	ND	1.1	1.06		Tert-Butyl Alcohol (TBA)	ND	21	1.06	
t-1,2-Dichloroethene	ND	1.1	1.06		Diisopropyl Ether (DIPE)	ND	1.1	1.06	
1,2-Dichloropropane	ND	1.1	1.06		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.06	
1,3-Dichloropropane	ND	1.1	1.06		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.06	
2,2-Dichloropropane	ND	5.3	1.06		Ethanol	ND	530	1.06	
1,1-Dichloropropene	ND	2.1	1.06						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	129	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4WI@5	**09-12-0352-5-D**	**12/03/09 08:44**	**Solid**	**GC/MS QQ**	**12/03/09**	**12/04/09 20:02**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1.01		c-1,3-Dichloropropene	ND	1.0	1.01	
Benzene	ND	1.0	1.01		t-1,3-Dichloropropene	ND	2.0	1.01	
Bromobenzene	ND	1.0	1.01		Ethylbenzene	ND	1.0	1.01	
Bromochloromethane	ND	2.0	1.01		2-Hexanone	ND	20	1.01	
Bromodichloromethane	ND	1.0	1.01		Isopropylbenzene	ND	1.0	1.01	
Bromoform	ND	5.0	1.01		p-Isopropyltoluene	ND	1.0	1.01	
Bromomethane	ND	20	1.01		Methylene Chloride	ND	10	1.01	
2-Butanone	ND	20	1.01		4-Methyl-2-Pentanone	ND	20	1.01	
n-Butylbenzene	ND	1.0	1.01		Naphthalene	ND	10	1.01	
sec-Butylbenzene	ND	1.0	1.01		n-Propylbenzene	ND	2.0	1.01	
tert-Butylbenzene	ND	1.0	1.01		Styrene	ND	1.0	1.01	
Carbon Disulfide	ND	10	1.01		1,1,1,2-Tetrachloroethane	ND	1.0	1.01	
Carbon Tetrachloride	ND	1.0	1.01		1,1,2,2-Tetrachloroethane	ND	2.0	1.01	
Chlorobenzene	ND	1.0	1.01		Tetrachloroethene	ND	1.0	1.01	
Chloroethane	ND	2.0	1.01		Toluene	ND	1.0	1.01	
Chloroform	ND	1.0	1.01		1,2,3-Trichlorobenzene	ND	2.0	1.01	
Chloromethane	ND	20	1.01		1,2,4-Trichlorobenzene	ND	2.0	1.01	
2-Chlorotoluene	ND	1.0	1.01		1,1,1-Trichloroethane	ND	1.0	1.01	
4-Chlorotoluene	ND	1.0	1.01		1,1,2-Trichloroethane	ND	1.0	1.01	
Dibromochloromethane	ND	2.0	1.01		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.01	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.01		Trichloroethene	ND	2.0	1.01	
1,2-Dibromoethane	ND	1.0	1.01		Trichlorofluoromethane	ND	10	1.01	
Dibromomethane	ND	1.0	1.01		1,2,3-Trichloropropane	ND	2.0	1.01	
1,2-Dichlorobenzene	ND	1.0	1.01		1,2,4-Trimethylbenzene	ND	2.0	1.01	
1,3-Dichlorobenzene	ND	1.0	1.01		1,3,5-Trimethylbenzene	ND	2.0	1.01	
1,4-Dichlorobenzene	ND	1.0	1.01		Vinyl Acetate	ND	10	1.01	
Dichlorodifluoromethane	ND	2.0	1.01		Vinyl Chloride	ND	1.0	1.01	
1,1-Dichloroethane	ND	1.0	1.01		p/m-Xylene	ND	2.0	1.01	
1,2-Dichloroethane	ND	1.0	1.01		o-Xylene	ND	1.0	1.01	
1,1-Dichloroethene	ND	1.0	1.01		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.01	
c-1,2-Dichloroethene	ND	1.0	1.01		Tert-Butyl Alcohol (TBA)	ND	20	1.01	
t-1,2-Dichloroethene	ND	1.0	1.01		Diisopropyl Ether (DIPE)	ND	1.0	1.01	
1,2-Dichloropropane	ND	1.0	1.01		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.01	
1,3-Dichloropropane	ND	1.0	1.01		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.01	
2,2-Dichloropropane	ND	5.0	1.01		Ethanol	ND	500	1.01	
1,1-Dichloropropene	ND	2.0	1.01						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	119	71-137		1,2-Dichloroethane-d4	132	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 6 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4WI@10	**09-12-0352-6-D**	**12/03/09 08:57**	**Solid**	**GC/MS QQ**	**12/03/09**	**12/04/09 20:28**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	42	0.849		c-1,3-Dichloropropene	ND	0.85	0.849	
Benzene	ND	0.85	0.849		t-1,3-Dichloropropene	ND	1.7	0.849	
Bromobenzene	ND	0.85	0.849		Ethylbenzene	ND	0.85	0.849	
Bromochloromethane	ND	1.7	0.849		2-Hexanone	ND	17	0.849	
Bromodichloromethane	ND	0.85	0.849		Isopropylbenzene	ND	0.85	0.849	
Bromoform	ND	4.2	0.849		p-Isopropyltoluene	ND	0.85	0.849	
Bromomethane	ND	17	0.849		Methylene Chloride	ND	8.5	0.849	
2-Butanone	ND	17	0.849		4-Methyl-2-Pentanone	ND	17	0.849	
n-Butylbenzene	ND	0.85	0.849		Naphthalene	ND	8.5	0.849	
sec-Butylbenzene	ND	0.85	0.849		n-Propylbenzene	ND	1.7	0.849	
tert-Butylbenzene	ND	0.85	0.849		Styrene	ND	0.85	0.849	
Carbon Disulfide	ND	8.5	0.849		1,1,1,2-Tetrachloroethane	ND	0.85	0.849	
Carbon Tetrachloride	ND	0.85	0.849		1,1,2,2-Tetrachloroethane	ND	1.7	0.849	
Chlorobenzene	ND	0.85	0.849		Tetrachloroethene	ND	0.85	0.849	
Chloroethane	ND	1.7	0.849		Toluene	ND	0.85	0.849	
Chloroform	ND	0.85	0.849		1,2,3-Trichlorobenzene	ND	1.7	0.849	
Chloromethane	ND	17	0.849		1,2,4-Trichlorobenzene	ND	1.7	0.849	
2-Chlorotoluene	ND	0.85	0.849		1,1,1-Trichloroethane	ND	0.85	0.849	
4-Chlorotoluene	ND	0.85	0.849		1,1,2-Trichloroethane	ND	0.85	0.849	
Dibromochloromethane	ND	1.7	0.849		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	0.849	
1,2-Dibromo-3-Chloropropane	ND	4.2	0.849		Trichloroethene	ND	1.7	0.849	
1,2-Dibromoethane	ND	0.85	0.849		Trichlorofluoromethane	ND	8.5	0.849	
Dibromomethane	ND	0.85	0.849		1,2,3-Trichloropropane	ND	1.7	0.849	
1,2-Dichlorobenzene	ND	0.85	0.849		1,2,4-Trimethylbenzene	ND	1.7	0.849	
1,3-Dichlorobenzene	ND	0.85	0.849		1,3,5-Trimethylbenzene	ND	1.7	0.849	
1,4-Dichlorobenzene	ND	0.85	0.849		Vinyl Acetate	ND	8.5	0.849	
Dichlorodifluoromethane	ND	1.7	0.849		Vinyl Chloride	ND	0.85	0.849	
1,1-Dichloroethane	ND	0.85	0.849		p/m-Xylene	ND	1.7	0.849	
1,2-Dichloroethane	ND	0.85	0.849		o-Xylene	ND	0.85	0.849	
1,1-Dichloroethene	ND	0.85	0.849		Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.849	
c-1,2-Dichloroethene	ND	0.85	0.849		Tert-Butyl Alcohol (TBA)	ND	17	0.849	
t-1,2-Dichloroethene	ND	0.85	0.849		Diisopropyl Ether (DIPE)	ND	0.85	0.849	
1,2-Dichloropropane	ND	0.85	0.849		Ethyl-t-Butyl Ether (ETBE)	ND	0.85	0.849	
1,3-Dichloropropane	ND	0.85	0.849		Tert-Amyl-Methyl Ether (TAME)	ND	0.85	0.849	
2,2-Dichloropropane	ND	4.2	0.849		Ethanol	ND	420	0.849	
1,1-Dichloropropene	ND	1.7	0.849						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	131	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 7 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4SI@1	**09-12-0352-7-D**	**12/03/09 09:00**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 16:43**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	49	0.982		c-1,3-Dichloropropene	ND	0.98	0.982	
Benzene	ND	0.98	0.982		t-1,3-Dichloropropene	ND	2.0	0.982	
Bromobenzene	ND	0.98	0.982		Ethylbenzene	ND	0.98	0.982	
Bromochloromethane	ND	2.0	0.982		2-Hexanone	ND	20	0.982	
Bromodichloromethane	ND	0.98	0.982		Isopropylbenzene	ND	0.98	0.982	
Bromoform	ND	4.9	0.982		p-Isopropyltoluene	ND	0.98	0.982	
Bromomethane	ND	20	0.982		Methylene Chloride	ND	9.8	0.982	
2-Butanone	ND	20	0.982		4-Methyl-2-Pentanone	ND	20	0.982	
n-Butylbenzene	ND	0.98	0.982		Naphthalene	ND	9.8	0.982	
sec-Butylbenzene	ND	0.98	0.982		n-Propylbenzene	ND	2.0	0.982	
tert-Butylbenzene	ND	0.98	0.982		Styrene	ND	0.98	0.982	
Carbon Disulfide	ND	9.8	0.982		1,1,1,2-Tetrachloroethane	ND	0.98	0.982	
Carbon Tetrachloride	ND	0.98	0.982		1,1,2,2-Tetrachloroethane	ND	2.0	0.982	
Chlorobenzene	ND	0.98	0.982		Tetrachloroethene	ND	0.98	0.982	
Chloroethane	ND	2.0	0.982		Toluene	ND	0.98	0.982	
Chloroform	ND	0.98	0.982		1,2,3-Trichlorobenzene	ND	2.0	0.982	
Chloromethane	ND	20	0.982		1,2,4-Trichlorobenzene	ND	2.0	0.982	
2-Chlorotoluene	ND	0.98	0.982		1,1,1-Trichloroethane	ND	0.98	0.982	
4-Chlorotoluene	ND	0.98	0.982		1,1,2-Trichloroethane	ND	0.98	0.982	
Dibromochloromethane	ND	2.0	0.982		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.8	0.982	
1,2-Dibromo-3-Chloropropane	ND	4.9	0.982		Trichloroethene	ND	2.0	0.982	
1,2-Dibromoethane	ND	0.98	0.982		Trichlorofluoromethane	ND	9.8	0.982	
Dibromomethane	ND	0.98	0.982		1,2,3-Trichloropropane	ND	2.0	0.982	
1,2-Dichlorobenzene	ND	0.98	0.982		1,2,4-Trimethylbenzene	ND	2.0	0.982	
1,3-Dichlorobenzene	ND	0.98	0.982		1,3,5-Trimethylbenzene	ND	2.0	0.982	
1,4-Dichlorobenzene	ND	0.98	0.982		Vinyl Acetate	ND	9.8	0.982	
Dichlorodifluoromethane	ND	2.0	0.982		Vinyl Chloride	ND	0.98	0.982	
1,1-Dichloroethane	ND	0.98	0.982		p/m-Xylene	ND	2.0	0.982	
1,2-Dichloroethane	ND	0.98	0.982		o-Xylene	ND	0.98	0.982	
1,1-Dichloroethene	ND	0.98	0.982		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.982	
c-1,2-Dichloroethene	ND	0.98	0.982		Tert-Butyl Alcohol (TBA)	ND	20	0.982	
t-1,2-Dichloroethene	ND	0.98	0.982		Diisopropyl Ether (DIPE)	ND	0.98	0.982	
1,2-Dichloropropane	ND	0.98	0.982		Ethyl-t-Butyl Ether (ETBE)	ND	0.98	0.982	
1,3-Dichloropropane	ND	0.98	0.982		Tert-Amyl-Methyl Ether (TAME)	ND	0.98	0.982	
2,2-Dichloropropane	ND	4.9	0.982		Ethanol	ND	490	0.982	
1,1-Dichloropropene	ND	2.0	0.982						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	71-137		1,2-Dichloroethane-d4	120	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: PG&E Oakley / RC746.2.6			Page 8 of 14

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4SI@5	**09-12-0352-8-D**	**12/03/09 09:11**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 17:12**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	52	1.05		c-1,3-Dichloropropene	ND	1.0	1.05	
Benzene	ND	1.0	1.05		t-1,3-Dichloropropene	ND	2.1	1.05	
Bromobenzene	ND	1.0	1.05		Ethylbenzene	ND	1.0	1.05	
Bromochloromethane	ND	2.1	1.05		2-Hexanone	ND	21	1.05	
Bromodichloromethane	ND	1.0	1.05		Isopropylbenzene	ND	1.0	1.05	
Bromoform	ND	5.2	1.05		p-Isopropyltoluene	ND	1.0	1.05	
Bromomethane	ND	21	1.05		Methylene Chloride	ND	10	1.05	
2-Butanone	ND	21	1.05		4-Methyl-2-Pentanone	ND	21	1.05	
n-Butylbenzene	ND	1.0	1.05		Naphthalene	ND	10	1.05	
sec-Butylbenzene	ND	1.0	1.05		n-Propylbenzene	ND	2.1	1.05	
tert-Butylbenzene	ND	1.0	1.05		Styrene	ND	1.0	1.05	
Carbon Disulfide	ND	10	1.05		1,1,1,2-Tetrachloroethane	ND	1.0	1.05	
Carbon Tetrachloride	ND	1.0	1.05		1,1,2,2-Tetrachloroethane	ND	2.1	1.05	
Chlorobenzene	ND	1.0	1.05		Tetrachloroethene	ND	1.0	1.05	
Chloroethane	ND	2.1	1.05		Toluene	ND	1.0	1.05	
Chloroform	ND	1.0	1.05		1,2,3-Trichlorobenzene	ND	2.1	1.05	
Chloromethane	ND	21	1.05		1,2,4-Trichlorobenzene	ND	2.1	1.05	
2-Chlorotoluene	ND	1.0	1.05		1,1,1-Trichloroethane	ND	1.0	1.05	
4-Chlorotoluene	ND	1.0	1.05		1,1,2-Trichloroethane	ND	1.0	1.05	
Dibromochloromethane	ND	2.1	1.05		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.05	
1,2-Dibromo-3-Chloropropane	ND	5.2	1.05		Trichloroethene	ND	2.1	1.05	
1,2-Dibromoethane	ND	1.0	1.05		Trichlorofluoromethane	ND	10	1.05	
Dibromomethane	ND	1.0	1.05		1,2,3-Trichloropropane	ND	2.1	1.05	
1,2-Dichlorobenzene	ND	1.0	1.05		1,2,4-Trimethylbenzene	ND	2.1	1.05	
1,3-Dichlorobenzene	ND	1.0	1.05		1,3,5-Trimethylbenzene	ND	2.1	1.05	
1,4-Dichlorobenzene	ND	1.0	1.05		Vinyl Acetate	ND	10	1.05	
Dichlorodifluoromethane	ND	2.1	1.05		Vinyl Chloride	ND	1.0	1.05	
1,1-Dichloroethane	ND	1.0	1.05		p/m-Xylene	ND	2.1	1.05	
1,2-Dichloroethane	ND	1.0	1.05		o-Xylene	ND	1.0	1.05	
1,1-Dichloroethene	ND	1.0	1.05		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.05	
c-1,2-Dichloroethene	ND	1.0	1.05		Tert-Butyl Alcohol (TBA)	ND	21	1.05	
t-1,2-Dichloroethene	ND	1.0	1.05		Diisopropyl Ether (DIPE)	ND	1.0	1.05	
1,2-Dichloropropane	ND	1.0	1.05		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.05	
1,3-Dichloropropane	ND	1.0	1.05		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.05	
2,2-Dichloropropane	ND	5.2	1.05		Ethanol	ND	520	1.05	
1,1-Dichloropropene	ND	2.1	1.05						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	71-137		1,2-Dichloroethane-d4	121	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	98	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4SI@10	**09-12-0352-9-D**	**12/03/09 09:28**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 17:41**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	41	0.824		c-1,3-Dichloropropene	ND	0.82	0.824	
Benzene	ND	0.82	0.824		t-1,3-Dichloropropene	ND	1.6	0.824	
Bromobenzene	ND	0.82	0.824		Ethylbenzene	ND	0.82	0.824	
Bromochloromethane	ND	1.6	0.824		2-Hexanone	ND	16	0.824	
Bromodichloromethane	ND	0.82	0.824		Isopropylbenzene	ND	0.82	0.824	
Bromoform	ND	4.1	0.824		p-Isopropyltoluene	ND	0.82	0.824	
Bromomethane	ND	16	0.824		Methylene Chloride	ND	8.2	0.824	
2-Butanone	ND	16	0.824		4-Methyl-2-Pentanone	ND	16	0.824	
n-Butylbenzene	ND	0.82	0.824		Naphthalene	ND	8.2	0.824	
sec-Butylbenzene	ND	0.82	0.824		n-Propylbenzene	ND	1.6	0.824	
tert-Butylbenzene	ND	0.82	0.824		Styrene	ND	0.82	0.824	
Carbon Disulfide	ND	8.2	0.824		1,1,1,2-Tetrachloroethane	ND	0.82	0.824	
Carbon Tetrachloride	ND	0.82	0.824		1,1,2,2-Tetrachloroethane	ND	1.6	0.824	
Chlorobenzene	ND	0.82	0.824		Tetrachloroethene	ND	0.82	0.824	
Chloroethane	ND	1.6	0.824		Toluene	ND	0.82	0.824	
Chloroform	ND	0.82	0.824		1,2,3-Trichlorobenzene	ND	1.6	0.824	
Chloromethane	ND	16	0.824		1,2,4-Trichlorobenzene	ND	1.6	0.824	
2-Chlorotoluene	ND	0.82	0.824		1,1,1-Trichloroethane	ND	0.82	0.824	
4-Chlorotoluene	ND	0.82	0.824		1,1,2-Trichloroethane	ND	0.82	0.824	
Dibromochloromethane	ND	1.6	0.824		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.824	
1,2-Dibromo-3-Chloropropane	ND	4.1	0.824		Trichloroethene	ND	1.6	0.824	
1,2-Dibromoethane	ND	0.82	0.824		Trichlorofluoromethane	ND	8.2	0.824	
Dibromomethane	ND	0.82	0.824		1,2,3-Trichloropropane	ND	1.6	0.824	
1,2-Dichlorobenzene	ND	0.82	0.824		1,2,4-Trimethylbenzene	ND	1.6	0.824	
1,3-Dichlorobenzene	ND	0.82	0.824		1,3,5-Trimethylbenzene	ND	1.6	0.824	
1,4-Dichlorobenzene	ND	0.82	0.824		Vinyl Acetate	ND	8.2	0.824	
Dichlorodifluoromethane	ND	1.6	0.824		Vinyl Chloride	ND	0.82	0.824	
1,1-Dichloroethane	ND	0.82	0.824		p/m-Xylene	ND	1.6	0.824	
1,2-Dichloroethane	ND	0.82	0.824		o-Xylene	ND	0.82	0.824	
1,1-Dichloroethene	ND	0.82	0.824		Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.824	
c-1,2-Dichloroethene	ND	0.82	0.824		Tert-Butyl Alcohol (TBA)	ND	16	0.824	
t-1,2-Dichloroethene	ND	0.82	0.824		Diisopropyl Ether (DIPE)	ND	0.82	0.824	
1,2-Dichloropropane	ND	0.82	0.824		Ethyl-t-Butyl Ether (ETBE)	ND	0.82	0.824	
1,3-Dichloropropane	ND	0.82	0.824		Tert-Amyl-Methyl Ether (TAME)	ND	0.82	0.824	
2,2-Dichloropropane	ND	4.1	0.824		Ethanol	ND	410	0.824	
1,1-Dichloropropene	ND	1.6	0.824						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	125	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4NI@1	**09-12-0352-10-D**	**12/03/09 09:10**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 18:10**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	60	1.2		c-1,3-Dichloropropene	ND	1.2	1.2	
Benzene	ND	1.2	1.2		t-1,3-Dichloropropene	ND	2.4	1.2	
Bromobenzene	ND	1.2	1.2		Ethylbenzene	ND	1.2	1.2	
Bromochloromethane	ND	2.4	1.2		2-Hexanone	ND	24	1.2	
Bromodichloromethane	ND	1.2	1.2		Isopropylbenzene	ND	1.2	1.2	
Bromoform	ND	6.0	1.2		p-Isopropyltoluene	ND	1.2	1.2	
Bromomethane	ND	24	1.2		Methylene Chloride	ND	12	1.2	
2-Butanone	ND	24	1.2		4-Methyl-2-Pentanone	ND	24	1.2	
n-Butylbenzene	ND	1.2	1.2		Naphthalene	ND	12	1.2	
sec-Butylbenzene	ND	1.2	1.2		n-Propylbenzene	ND	2.4	1.2	
tert-Butylbenzene	ND	1.2	1.2		Styrene	ND	1.2	1.2	
Carbon Disulfide	ND	12	1.2		1,1,1,2-Tetrachloroethane	ND	1.2	1.2	
Carbon Tetrachloride	ND	1.2	1.2		1,1,2,2-Tetrachloroethane	ND	2.4	1.2	
Chlorobenzene	ND	1.2	1.2		Tetrachloroethene	ND	1.2	1.2	
Chloroethane	ND	2.4	1.2		Toluene	ND	1.2	1.2	
Chloroform	ND	1.2	1.2		1,2,3-Trichlorobenzene	ND	2.4	1.2	
Chloromethane	ND	24	1.2		1,2,4-Trichlorobenzene	ND	2.4	1.2	
2-Chlorotoluene	ND	1.2	1.2		1,1,1-Trichloroethane	ND	1.2	1.2	
4-Chlorotoluene	ND	1.2	1.2		1,1,2-Trichloroethane	ND	1.2	1.2	
Dibromochloromethane	ND	2.4	1.2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.2	
1,2-Dibromo-3-Chloropropane	ND	6.0	1.2		Trichloroethene	ND	2.4	1.2	
1,2-Dibromoethane	ND	1.2	1.2		Trichlorofluoromethane	ND	12	1.2	
Dibromomethane	ND	1.2	1.2		1,2,3-Trichloropropane	ND	2.4	1.2	
1,2-Dichlorobenzene	ND	1.2	1.2		1,2,4-Trimethylbenzene	ND	2.4	1.2	
1,3-Dichlorobenzene	ND	1.2	1.2		1,3,5-Trimethylbenzene	ND	2.4	1.2	
1,4-Dichlorobenzene	ND	1.2	1.2		Vinyl Acetate	ND	12	1.2	
Dichlorodifluoromethane	ND	2.4	1.2		Vinyl Chloride	ND	1.2	1.2	
1,1-Dichloroethane	ND	1.2	1.2		p/m-Xylene	ND	2.4	1.2	
1,2-Dichloroethane	ND	1.2	1.2		o-Xylene	ND	1.2	1.2	
1,1-Dichloroethene	ND	1.2	1.2		Methyl-t-Butyl Ether (MTBE)	ND	2.4	1.2	
c-1,2-Dichloroethene	ND	1.2	1.2		Tert-Butyl Alcohol (TBA)	ND	24	1.2	
t-1,2-Dichloroethene	ND	1.2	1.2		Diisopropyl Ether (DIPE)	ND	1.2	1.2	
1,2-Dichloropropane	ND	1.2	1.2		Ethyl-t-Butyl Ether (ETBE)	ND	1.2	1.2	
1,3-Dichloropropane	ND	1.2	1.2		Tert-Amyl-Methyl Ether (TAME)	ND	1.2	1.2	
2,2-Dichloropropane	ND	6.0	1.2		Ethanol	ND	600	1.2	
1,1-Dichloropropene	ND	2.4	1.2						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	71-137		1,2-Dichloroethane-d4	128	58-160	
1,4-Bromofluorobenzene	92	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4NI@5	**09-12-0352-11-D**	**12/03/09 09:16**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 18:39**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	53	1.06		c-1,3-Dichloropropene	ND	1.1	1.06	
Benzene	ND	1.1	1.06		t-1,3-Dichloropropene	ND	2.1	1.06	
Bromobenzene	ND	1.1	1.06		Ethylbenzene	ND	1.1	1.06	
Bromochloromethane	ND	2.1	1.06		2-Hexanone	ND	21	1.06	
Bromodichloromethane	ND	1.1	1.06		Isopropylbenzene	ND	1.1	1.06	
Bromoform	ND	5.3	1.06		p-Isopropyltoluene	ND	1.1	1.06	
Bromomethane	ND	21	1.06		Methylene Chloride	ND	11	1.06	
2-Butanone	ND	21	1.06		4-Methyl-2-Pentanone	ND	21	1.06	
n-Butylbenzene	ND	1.1	1.06		Naphthalene	ND	11	1.06	
sec-Butylbenzene	ND	1.1	1.06		n-Propylbenzene	ND	2.1	1.06	
tert-Butylbenzene	ND	1.1	1.06		Styrene	ND	1.1	1.06	
Carbon Disulfide	ND	11	1.06		1,1,1,2-Tetrachloroethane	ND	1.1	1.06	
Carbon Tetrachloride	ND	1.1	1.06		1,1,2,2-Tetrachloroethane	ND	2.1	1.06	
Chlorobenzene	ND	1.1	1.06		Tetrachloroethene	ND	1.1	1.06	
Chloroethane	ND	2.1	1.06		Toluene	ND	1.1	1.06	
Chloroform	ND	1.1	1.06		1,2,3-Trichlorobenzene	ND	2.1	1.06	
Chloromethane	ND	21	1.06		1,2,4-Trichlorobenzene	ND	2.1	1.06	
2-Chlorotoluene	ND	1.1	1.06		1,1,1-Trichloroethane	ND	1.1	1.06	
4-Chlorotoluene	ND	1.1	1.06		1,1,2-Trichloroethane	ND	1.1	1.06	
Dibromochloromethane	ND	2.1	1.06		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.06	
1,2-Dibromo-3-Chloropropane	ND	5.3	1.06		Trichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	1.1	1.06		Trichlorofluoromethane	ND	11	1.06	
Dibromomethane	ND	1.1	1.06		1,2,3-Trichloropropane	ND	2.1	1.06	
1,2-Dichlorobenzene	ND	1.1	1.06		1,2,4-Trimethylbenzene	ND	2.1	1.06	
1,3-Dichlorobenzene	ND	1.1	1.06		1,3,5-Trimethylbenzene	ND	2.1	1.06	
1,4-Dichlorobenzene	ND	1.1	1.06		Vinyl Acetate	ND	11	1.06	
Dichlorodifluoromethane	ND	2.1	1.06		Vinyl Chloride	ND	1.1	1.06	
1,1-Dichloroethane	ND	1.1	1.06		p/m-Xylene	ND	2.1	1.06	
1,2-Dichloroethane	ND	1.1	1.06		o-Xylene	ND	1.1	1.06	
1,1-Dichloroethene	ND	1.1	1.06		Methyl-t-Butyl Ether (MTBE)	ND	2.1	1.06	
c-1,2-Dichloroethene	ND	1.1	1.06		Tert-Butyl Alcohol (TBA)	ND	21	1.06	
t-1,2-Dichloroethene	ND	1.1	1.06		Diisopropyl Ether (DIPE)	ND	1.1	1.06	
1,2-Dichloropropane	ND	1.1	1.06		Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.06	
1,3-Dichloropropane	ND	1.1	1.06		Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.06	
2,2-Dichloropropane	ND	5.3	1.06		Ethanol	ND	530	1.06	
1,1-Dichloropropene	ND	2.1	1.06						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	118	71-137		1,2-Dichloroethane-d4	123	58-160	
1,4-Bromofluorobenzene	90	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ARCADIS U.S., Inc.		Date Received:	12/04/09
1900 Powell Street, 12th Floor		Work Order No:	09-12-0352
Emeryville, CA 94608-1811		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-CPT4NI@10	**09-12-0352-12-D**	**12/03/09 09:31**	**Solid**	**GC/MS T**	**12/03/09**	**12/04/09 19:07**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	48	0.963		c-1,3-Dichloropropene	ND	0.96	0.963	
Benzene	ND	0.96	0.963		t-1,3-Dichloropropene	ND	1.9	0.963	
Bromobenzene	ND	0.96	0.963		Ethylbenzene	ND	0.96	0.963	
Bromochloromethane	ND	1.9	0.963		2-Hexanone	ND	19	0.963	
Bromodichloromethane	ND	0.96	0.963		Isopropylbenzene	ND	0.96	0.963	
Bromoform	ND	4.8	0.963		p-Isopropyltoluene	ND	0.96	0.963	
Bromomethane	ND	19	0.963		Methylene Chloride	ND	9.6	0.963	
2-Butanone	ND	19	0.963		4-Methyl-2-Pentanone	ND	19	0.963	
n-Butylbenzene	ND	0.96	0.963		Naphthalene	ND	9.6	0.963	
sec-Butylbenzene	ND	0.96	0.963		n-Propylbenzene	ND	1.9	0.963	
tert-Butylbenzene	ND	0.96	0.963		Styrene	ND	0.96	0.963	
Carbon Disulfide	ND	9.6	0.963		1,1,1,2-Tetrachloroethane	ND	0.96	0.963	
Carbon Tetrachloride	ND	0.96	0.963		1,1,2,2-Tetrachloroethane	ND	1.9	0.963	
Chlorobenzene	ND	0.96	0.963		Tetrachloroethene	ND	0.96	0.963	
Chloroethane	ND	1.9	0.963		Toluene	ND	0.96	0.963	
Chloroform	ND	0.96	0.963		1,2,3-Trichlorobenzene	ND	1.9	0.963	
Chloromethane	ND	19	0.963		1,2,4-Trichlorobenzene	ND	1.9	0.963	
2-Chlorotoluene	ND	0.96	0.963		1,1,1-Trichloroethane	ND	0.96	0.963	
4-Chlorotoluene	ND	0.96	0.963		1,1,2-Trichloroethane	ND	0.96	0.963	
Dibromochloromethane	ND	1.9	0.963		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.6	0.963	
1,2-Dibromo-3-Chloropropane	ND	4.8	0.963		Trichloroethene	ND	1.9	0.963	
1,2-Dibromoethane	ND	0.96	0.963		Trichlorofluoromethane	ND	9.6	0.963	
Dibromomethane	ND	0.96	0.963		1,2,3-Trichloropropane	ND	1.9	0.963	
1,2-Dichlorobenzene	ND	0.96	0.963		1,2,4-Trimethylbenzene	ND	1.9	0.963	
1,3-Dichlorobenzene	ND	0.96	0.963		1,3,5-Trimethylbenzene	ND	1.9	0.963	
1,4-Dichlorobenzene	ND	0.96	0.963		Vinyl Acetate	ND	9.6	0.963	
Dichlorodifluoromethane	ND	1.9	0.963		Vinyl Chloride	ND	0.96	0.963	
1,1-Dichloroethane	ND	0.96	0.963		p/m-Xylene	ND	1.9	0.963	
1,2-Dichloroethane	ND	0.96	0.963		o-Xylene	ND	0.96	0.963	
1,1-Dichloroethene	ND	0.96	0.963		Methyl-t-Butyl Ether (MTBE)	ND	1.9	0.963	
c-1,2-Dichloroethene	ND	0.96	0.963		Tert-Butyl Alcohol (TBA)	ND	19	0.963	
t-1,2-Dichloroethene	ND	0.96	0.963		Diisopropyl Ether (DIPE)	ND	0.96	0.963	
1,2-Dichloropropane	ND	0.96	0.963		Ethyl-t-Butyl Ether (ETBE)	ND	0.96	0.963	
1,3-Dichloropropane	ND	0.96	0.963		Tert-Amyl-Methyl Ether (TAME)	ND	0.96	0.963	
2,2-Dichloropropane	ND	4.8	0.963		Ethanol	ND	480	0.963	
1,1-Dichloropropene	ND	1.9	0.963						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	71-137		1,2-Dichloroethane-d4	124	58-160	
1,4-Bromofluorobenzene	91	66-126		Toluene-d8	99	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,561**	**N/A**	**Solid**	**GC/MS T**	**12/04/09**	**12/04/09 12:54**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	71-137		1,2-Dichloroethane-d4	106	58-160	
1,4-Bromofluorobenzene	88	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 5035
Method:	EPA 8260B
Units:	ug/kg

Project: PG&E Oakley / RC746.2.6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-18,566**	**N/A**	**Solid**	**GC/MS QQ**	**12/04/09**	**12/04/09 13:07**	**091204L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		c-1,3-Dichloropropene	ND	1.0	1	
Benzene	ND	1.0	1		t-1,3-Dichloropropene	ND	2.0	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	2.0	1		2-Hexanone	ND	20	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	5.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	20	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	20	1		4-Methyl-2-Pentanone	ND	20	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	2.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	2.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	2.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	2.0	1	
Chloromethane	ND	20	1		1,2,4-Trichlorobenzene	ND	2.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
Dibromochloromethane	ND	2.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	2.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	2.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	2.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	2.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	2.0	1		Vinyl Chloride	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	2.0	1	
1,2-Dichloroethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	20	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1	
2,2-Dichloropropane	ND	5.0	1		Ethanol	ND	500	1	
1,1-Dichloropropene	ND	2.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	71-137		1,2-Dichloroethane-d4	113	58-160	
1,4-Bromofluorobenzene	89	66-126		Toluene-d8	97	87-111	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	12/04/09
Work Order No:	09-12-0352
Preparation:	EPA 3545
Method:	EPA 8082

Project PG&E Oakley / RC746.2.6

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-CPT4A@1	**Solid**	**GC 58**	**12/04/09**	**12/05/09**	**091204S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	120	112	50-135	8	0-20	
Aroclor-1260	118	108	50-135	8	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received:	N/A
Work Order No:	09-12-0352
Preparation:	EPA 3545
Method:	EPA 8082

Project: PG&E Oakley / RC746.2.6

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-826	**Solid**	**GC 58**	**12/04/09**	**12/05/09**	**091204L04**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	119	120	50-135	1	0-20	
Aroclor-1260	116	118	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-12-0352
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Oakley / RC746.2.6

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,561	**Solid**	**GC/MS T**	**12/04/09**	**12/04/09**	**091204L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	107	108	85-115	80-120	1	0-11	
Carbon Tetrachloride	98	98	68-134	57-145	1	0-14	
Chlorobenzene	105	105	83-119	77-125	0	0-9	
1,2-Dibromoethane	106	106	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	105	106	57-135	44-148	1	0-10	
1,1-Dichloroethene	105	104	72-120	64-128	1	0-10	
Ethylbenzene	111	110	80-120	73-127	1	0-20	
Toluene	106	105	67-127	57-137	1	0-10	
Trichloroethene	102	102	88-112	84-116	0	0-9	
Vinyl Chloride	89	89	57-129	45-141	0	0-16	
Methyl-t-Butyl Ether (MTBE)	92	91	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	129	110	31-145	12-164	16	0-23	
Diisopropyl Ether (DIPE)	100	100	74-128	65-137	1	0-10	
Ethyl-t-Butyl Ether (ETBE)	95	97	77-125	69-133	2	0-9	
Tert-Amyl-Methyl Ether (TAME)	93	93	81-123	74-130	0	0-10	
Ethanol	134	112	44-152	26-170	18	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608-1811

Date Received: N/A
Work Order No: 09-12-0352
Preparation: EPA 5035
Method: EPA 8260B

Project: PG&E Oakley / RC746.2.6

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-18,566	**Solid**	**GC/MS QQ**	**12/04/09**	**12/04/09**	**091204L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	96	94	85-115	80-120	2	0-11	
Carbon Tetrachloride	108	113	68-134	57-145	5	0-14	
Chlorobenzene	98	101	83-119	77-125	4	0-9	
1,2-Dibromoethane	99	99	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	95	97	57-135	44-148	2	0-10	
1,1-Dichloroethene	107	109	72-120	64-128	2	0-10	
Ethylbenzene	101	106	80-120	73-127	5	0-20	
Toluene	98	99	67-127	57-137	1	0-10	
Trichloroethene	99	102	88-112	84-116	3	0-9	
Vinyl Chloride	107	111	57-129	45-141	4	0-16	
Methyl-t-Butyl Ether (MTBE)	108	106	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	77	81	31-145	12-164	6	0-23	
Diisopropyl Ether (DIPE)	100	104	74-128	65-137	4	0-10	
Ethyl-t-Butyl Ether (ETBE)	102	102	77-125	69-133	0	0-9	
Tert-Amyl-Methyl Ether (TAME)	111	103	81-123	74-130	7	0-10	
Ethanol	80	87	44-152	26-170	9	0-24	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-12-0352

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC746.2.6

Project Location Oakley CA

Laboratory CalScience

Project Manager J. Maehr / KB

Sampler(s)/Affiliation KB/AV

0352

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	PCB	Low Level VOCs					Remarks	Total
SB-CPT4A@1	S	12/3/09 0835	1	X	X					24h TAT	
SB-CPT4A@5		0843	2								
SB-CPT4A@10		0900	3								
SB-CPT4W1@1		0837	4								
SB-CPT4W1@5		0844	5								
SB-CPT4W1@10		0857	6								
SB-CPT4S1@1		0900	7								
SB-CPT4S1@5		0911	8								
SB-CPT4S1@10		0928	9								
SB-CPT4N1@1		0910	10								
SB-CPT4N1@5		0916	11								
SB-CPT4N1@10		0931	12								

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

Relinquished by: [signature]	Organization: ARCADIS	Date 12/3/09	Time 1050	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 12/3/09	Time 1050	
Relinquished by: [signature] to GSO	Organization: CEL	Date 12/3/09	Time 1730	Seal Intact? Yes No N/A
Received by: [signature]	Organization: CEL	Date 12/4/09 (JD)	Time 1000	

Special Instructions/Remarks:

513139254

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-12-9352

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ARCADIS

DATE: 12/04/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.8 °C - 0.8 °C (CF) = 4.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** YL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☑TerraCores® ☑ 2oz PJ 3

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** YL

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelop **Reviewed by:** WB

Preservative: h: HCL **n:** HNO3 **na$_2$:** $Na_2S_2O_3$ **Na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **znna:** $ZnAc_2$+NaOH **f:** Field-filtered **Scanned by:** YL

ANALYTICAL REPORT

Job Number: 720-24444-1

Job Description: Oakley, CA

For:
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608

Attention: Ms. Katherine Brandt

Approved for release.
Dimple Sharma
Project Manager I
12/4/2009 5:40 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
12/04/2009

cc: Ms. Teresa O'Reilly

CA ELAP Certification # 2496
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The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received at the laboratory outside the required temperature criteria: No ice.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for preparation batch 62411 exceeded control limits for the following analytes: 1,1,2,2-tetrachloroethane, 1,1,2-tirchloroethane, 1,2,3-trichorobenzene, 1,2-dibromo-3-chloropropane, MEK, 2-hexanone, MIBK, bromoform, ethylene dibromide, MTBE, napthalene, 1,2,3-trichlorpropane and dibromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 62411 exceeded control limits for the following analytes: carbon disulfide.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Closed System Purge and Trap	TAL SF		SW846 5035
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL SF	SW846 8082	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-24444-1	SB-CPT4A@1	Solid	12/03/2009 0835	12/03/2009 1753
720-24444-2	SB-CPT4A@5	Solid	12/03/2009 0843	12/03/2009 1753
720-24444-3	SB-CPT4A@10	Solid	12/03/2009 0900	12/03/2009 1753
720-24444-4	SB-CPT4W1@1	Solid	12/03/2009 0837	12/03/2009 1753
720-24444-5	SB-CPT4W1@5	Solid	12/03/2009 0844	12/03/2009 1753
720-24444-6	SB-CPT4W1@10	Solid	12/03/2009 0857	12/03/2009 1753
720-24444-7	SB-CPT4S1@1	Solid	12/03/2009 0900	12/03/2009 1753
720-24444-8	SB-CPT4S1@5	Solid	12/03/2009 0911	12/03/2009 1753
720-24444-9	SB-CPT4S1@10	Solid	12/03/2009 0928	12/03/2009 1753
720-24444-10	SB-CPT4N1@1	Solid	12/03/2009 0910	12/03/2009 1753
720-24444-11	SB-CPT4N1@5	Solid	12/03/2009 0916	12/03/2009 1753
720-24444-12	SB-CPT4N1@10	Solid	12/03/2009 0931	12/03/2009 1753

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@1**

Lab Sample ID: 720-24444-1 Date Sampled: 12/03/2009 0835
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030913.D
Dilution:	1.0			Initial Weight/Volume:	4.99 g
Date Analyzed:	12/03/2009 2200			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND	*	5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND	*	50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND	*	5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND	*	5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND	*	5.0
Ethylene Dibromide		ND	*	5.0
Dibromomethane		ND	*	10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND	*	5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND	*	50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10
4-Methyl-2-pentanone (MIBK)		ND	*	50
Naphthalene		ND	*	10

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@1**

Lab Sample ID: 720-24444-1 Date Sampled: 12/03/2009 0835
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030913.D
Dilution:	1.0			Initial Weight/Volume:	4.99 g
Date Analyzed:	12/03/2009 2200			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND	*	5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND	*	5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND	*	5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND	*	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		52 - 140
1,2-Dichloroethane-d4 (Surr)	122		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@5**

Lab Sample ID: 720-24444-2 Date Sampled: 12/03/2009 0843
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030914.D
Dilution:	1.0			Initial Weight/Volume:	4.75 g
Date Analyzed:	12/03/2009 2233			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.3
Acetone		ND		53
Benzene		ND		5.3
Dichlorobromomethane		ND		5.3
Bromobenzene		ND		5.3
Chlorobromomethane		ND		21
Bromoform		ND	*	5.3
Bromomethane		ND		11
2-Butanone (MEK)		ND	*	53
n-Butylbenzene		ND		5.3
sec-Butylbenzene		ND		5.3
tert-Butylbenzene		ND		5.3
Carbon disulfide		ND	*	5.3
Carbon tetrachloride		ND		5.3
Chlorobenzene		ND		5.3
Chloroethane		ND		11
Chloroform		ND		5.3
Chloromethane		ND		11
2-Chlorotoluene		ND		5.3
4-Chlorotoluene		ND		5.3
Chlorodibromomethane		ND		5.3
1,2-Dichlorobenzene		ND		5.3
1,3-Dichlorobenzene		ND		5.3
1,4-Dichlorobenzene		ND		5.3
1,3-Dichloropropane		ND	*	5.3
1,1-Dichloropropene		ND		5.3
1,2-Dibromo-3-Chloropropane		ND	*	5.3
Ethylene Dibromide		ND	*	5.3
Dibromomethane		ND	*	11
Dichlorodifluoromethane		ND		11
1,1-Dichloroethane		ND		5.3
1,2-Dichloroethane		ND	*	5.3
1,1-Dichloroethene		ND		5.3
cis-1,2-Dichloroethene		ND		5.3
trans-1,2-Dichloroethene		ND		5.3
1,2-Dichloropropane		ND		5.3
cis-1,3-Dichloropropene		ND		5.3
trans-1,3-Dichloropropene		ND		5.3
Ethylbenzene		ND		5.3
Hexachlorobutadiene		ND		5.3
2-Hexanone		ND	*	53
Isopropylbenzene		ND		5.3
4-Isopropyltoluene		ND		5.3
Methylene Chloride		ND		11
4-Methyl-2-pentanone (MIBK)		ND	*	53
Naphthalene		ND	*	11

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@5**

Lab Sample ID: 720-24444-2 Date Sampled: 12/03/2009 0843
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030914.D
Dilution:	1.0			Initial Weight/Volume:	4.75 g
Date Analyzed:	12/03/2009 2233			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.3
Styrene		ND		5.3
1,1,1,2-Tetrachloroethane		ND		5.3
1,1,2,2-Tetrachloroethane		ND	*	5.3
Tetrachloroethene		ND		5.3
Toluene		ND		5.3
1,2,3-Trichlorobenzene		ND	*	5.3
1,2,4-Trichlorobenzene		ND		5.3
1,1,1-Trichloroethane		ND		5.3
1,1,2-Trichloroethane		ND	*	5.3
Trichloroethene		ND		5.3
Trichlorofluoromethane		ND		5.3
1,2,3-Trichloropropane		ND	*	5.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.3
1,2,4-Trimethylbenzene		ND		5.3
1,3,5-Trimethylbenzene		ND		5.3
Vinyl acetate		ND		53
Vinyl chloride		ND		5.3
Xylenes, Total		ND		11
2,2-Dichloropropane		ND		5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	122		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@10**

Lab Sample ID: 720-24444-3 Date Sampled: 12/03/2009 0900
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030915.D
Dilution:	1.0			Initial Weight/Volume:	4.44 g
Date Analyzed:	12/03/2009 2305			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.6
Acetone		ND		56
Benzene		ND		5.6
Dichlorobromomethane		ND		5.6
Bromobenzene		ND		5.6
Chlorobromomethane		ND		23
Bromoform		ND	*	5.6
Bromomethane		ND		11
2-Butanone (MEK)		ND	*	56
n-Butylbenzene		ND		5.6
sec-Butylbenzene		ND		5.6
tert-Butylbenzene		ND		5.6
Carbon disulfide		ND	*	5.6
Carbon tetrachloride		ND		5.6
Chlorobenzene		ND		5.6
Chloroethane		ND		11
Chloroform		ND		5.6
Chloromethane		ND		11
2-Chlorotoluene		ND		5.6
4-Chlorotoluene		ND		5.6
Chlorodibromomethane		ND		5.6
1,2-Dichlorobenzene		ND		5.6
1,3-Dichlorobenzene		ND		5.6
1,4-Dichlorobenzene		ND		5.6
1,3-Dichloropropane		ND	*	5.6
1,1-Dichloropropene		ND		5.6
1,2-Dibromo-3-Chloropropane		ND	*	5.6
Ethylene Dibromide		ND	*	5.6
Dibromomethane		ND	*	11
Dichlorodifluoromethane		ND		11
1,1-Dichloroethane		ND		5.6
1,2-Dichloroethane		ND	*	5.6
1,1-Dichloroethene		ND		5.6
cis-1,2-Dichloroethene		ND		5.6
trans-1,2-Dichloroethene		ND		5.6
1,2-Dichloropropane		ND		5.6
cis-1,3-Dichloropropene		ND		5.6
trans-1,3-Dichloropropene		ND		5.6
Ethylbenzene		ND		5.6
Hexachlorobutadiene		ND		5.6
2-Hexanone		ND	*	56
Isopropylbenzene		ND		5.6
4-Isopropyltoluene		ND		5.6
Methylene Chloride		ND		11
4-Methyl-2-pentanone (MIBK)		ND	*	56
Naphthalene		ND	*	11

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@10**

Lab Sample ID: 720-24444-3 Date Sampled: 12/03/2009 0900
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030915.D
Dilution:	1.0			Initial Weight/Volume:	4.44 g
Date Analyzed:	12/03/2009 2305			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.6
Styrene		ND		5.6
1,1,1,2-Tetrachloroethane		ND		5.6
1,1,2,2-Tetrachloroethane		ND	*	5.6
Tetrachloroethene		ND		5.6
Toluene		ND		5.6
1,2,3-Trichlorobenzene		ND	*	5.6
1,2,4-Trichlorobenzene		ND		5.6
1,1,1-Trichloroethane		ND		5.6
1,1,2-Trichloroethane		ND	*	5.6
Trichloroethene		ND		5.6
Trichlorofluoromethane		ND		5.6
1,2,3-Trichloropropane		ND	*	5.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.6
1,2,4-Trimethylbenzene		ND		5.6
1,3,5-Trimethylbenzene		ND		5.6
Vinyl acetate		ND		56
Vinyl chloride		ND		5.6
Xylenes, Total		ND		11
2,2-Dichloropropane		ND		5.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		52 - 140
1,2-Dichloroethane-d4 (Surr)	118		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@1**

Lab Sample ID: 720-24444-4 Date Sampled: 12/03/2009 0837
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030916.D
Dilution:	1.0			Initial Weight/Volume:	4.94 g
Date Analyzed:	12/03/2009 2337			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.1
Acetone		ND		51
Benzene		ND		5.1
Dichlorobromomethane		ND		5.1
Bromobenzene		ND		5.1
Chlorobromomethane		ND		20
Bromoform		ND	*	5.1
Bromomethane		ND		10
2-Butanone (MEK)		ND	*	51
n-Butylbenzene		ND		5.1
sec-Butylbenzene		ND		5.1
tert-Butylbenzene		ND		5.1
Carbon disulfide		ND	*	5.1
Carbon tetrachloride		ND		5.1
Chlorobenzene		ND		5.1
Chloroethane		ND		10
Chloroform		ND		5.1
Chloromethane		ND		10
2-Chlorotoluene		ND		5.1
4-Chlorotoluene		ND		5.1
Chlorodibromomethane		ND		5.1
1,2-Dichlorobenzene		ND		5.1
1,3-Dichlorobenzene		ND		5.1
1,4-Dichlorobenzene		ND		5.1
1,3-Dichloropropane		ND	*	5.1
1,1-Dichloropropene		ND		5.1
1,2-Dibromo-3-Chloropropane		ND	*	5.1
Ethylene Dibromide		ND	*	5.1
Dibromomethane		ND	*	10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.1
1,2-Dichloroethane		ND	*	5.1
1,1-Dichloroethene		ND		5.1
cis-1,2-Dichloroethene		ND		5.1
trans-1,2-Dichloroethene		ND		5.1
1,2-Dichloropropane		ND		5.1
cis-1,3-Dichloropropene		ND		5.1
trans-1,3-Dichloropropene		ND		5.1
Ethylbenzene		ND		5.1
Hexachlorobutadiene		ND		5.1
2-Hexanone		ND	*	51
Isopropylbenzene		ND		5.1
4-Isopropyltoluene		ND		5.1
Methylene Chloride		ND		10
4-Methyl-2-pentanone (MIBK)		ND	*	51
Naphthalene		ND	*	10

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@1**

Lab Sample ID: 720-24444-4 Date Sampled: 12/03/2009 0837
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030916.D
Dilution:	1.0			Initial Weight/Volume:	4.94 g
Date Analyzed:	12/03/2009 2337			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.1
Styrene		ND		5.1
1,1,1,2-Tetrachloroethane		ND		5.1
1,1,2,2-Tetrachloroethane		ND	*	5.1
Tetrachloroethene		ND		5.1
Toluene		ND		5.1
1,2,3-Trichlorobenzene		ND	*	5.1
1,2,4-Trichlorobenzene		ND		5.1
1,1,1-Trichloroethane		ND		5.1
1,1,2-Trichloroethane		ND	*	5.1
Trichloroethene		ND		5.1
Trichlorofluoromethane		ND		5.1
1,2,3-Trichloropropane		ND	*	5.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.1
1,2,4-Trimethylbenzene		ND		5.1
1,3,5-Trimethylbenzene		ND		5.1
Vinyl acetate		ND		51
Vinyl chloride		ND		5.1
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		52 - 140
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@5**

Lab Sample ID: 720-24444-5 Date Sampled: 12/03/2009 0844
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030917.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Date Analyzed:	12/04/2009 0010			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND	*	4.8
Bromomethane		ND		9.7
2-Butanone (MEK)		ND	*	48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND	*	4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.7
Chloroform		ND		4.8
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND	*	4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND	*	4.8
Ethylene Dibromide		ND	*	4.8
Dibromomethane		ND	*	9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND	*	4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND	*	48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.7
4-Methyl-2-pentanone (MIBK)		ND	*	48
Naphthalene		ND	*	9.7

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@5**

Lab Sample ID: 720-24444-5 Date Sampled: 12/03/2009 0844
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030917.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Date Analyzed:	12/04/2009 0010			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND	*	4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND	*	4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND	*	4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND	*	4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@10**

Lab Sample ID: 720-24444-6 Date Sampled: 12/03/2009 0857
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030918.D
Dilution:	1.0			Initial Weight/Volume:	6.21 g
Date Analyzed:	12/04/2009 0042			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.0
Acetone		ND		40
Benzene		ND		4.0
Dichlorobromomethane		ND		4.0
Bromobenzene		ND		4.0
Chlorobromomethane		ND		16
Bromoform		ND	*	4.0
Bromomethane		ND		8.1
2-Butanone (MEK)		ND	*	40
n-Butylbenzene		ND		4.0
sec-Butylbenzene		ND		4.0
tert-Butylbenzene		ND		4.0
Carbon disulfide		ND	*	4.0
Carbon tetrachloride		ND		4.0
Chlorobenzene		ND		4.0
Chloroethane		ND		8.1
Chloroform		ND		4.0
Chloromethane		ND		8.1
2-Chlorotoluene		ND		4.0
4-Chlorotoluene		ND		4.0
Chlorodibromomethane		ND		4.0
1,2-Dichlorobenzene		ND		4.0
1,3-Dichlorobenzene		ND		4.0
1,4-Dichlorobenzene		ND		4.0
1,3-Dichloropropane		ND	*	4.0
1,1-Dichloropropene		ND		4.0
1,2-Dibromo-3-Chloropropane		ND	*	4.0
Ethylene Dibromide		ND	*	4.0
Dibromomethane		ND	*	8.1
Dichlorodifluoromethane		ND		8.1
1,1-Dichloroethane		ND		4.0
1,2-Dichloroethane		ND	*	4.0
1,1-Dichloroethene		ND		4.0
cis-1,2-Dichloroethene		ND		4.0
trans-1,2-Dichloroethene		ND		4.0
1,2-Dichloropropane		ND		4.0
cis-1,3-Dichloropropene		ND		4.0
trans-1,3-Dichloropropene		ND		4.0
Ethylbenzene		ND		4.0
Hexachlorobutadiene		ND		4.0
2-Hexanone		ND	*	40
Isopropylbenzene		ND		4.0
4-Isopropyltoluene		ND		4.0
Methylene Chloride		ND		8.1
4-Methyl-2-pentanone (MIBK)		ND	*	40
Naphthalene		ND	*	8.1

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@10**

Lab Sample ID: 720-24444-6 Date Sampled: 12/03/2009 0857
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030918.D
Dilution:	1.0			Initial Weight/Volume:	6.21 g
Date Analyzed:	12/04/2009 0042			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.0
Styrene		ND		4.0
1,1,1,2-Tetrachloroethane		ND		4.0
1,1,2,2-Tetrachloroethane		ND	*	4.0
Tetrachloroethene		ND		4.0
Toluene		ND		4.0
1,2,3-Trichlorobenzene		ND	*	4.0
1,2,4-Trichlorobenzene		ND		4.0
1,1,1-Trichloroethane		ND		4.0
1,1,2-Trichloroethane		ND	*	4.0
Trichloroethene		ND		4.0
Trichlorofluoromethane		ND		4.0
1,2,3-Trichloropropane		ND	*	4.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.0
1,2,4-Trimethylbenzene		ND		4.0
1,3,5-Trimethylbenzene		ND		4.0
Vinyl acetate		ND		40
Vinyl chloride		ND		4.0
Xylenes, Total		ND		8.1
2,2-Dichloropropane		ND		4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		52 - 140
1,2-Dichloroethane-d4 (Surr)	119		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@1**

Lab Sample ID: 720-24444-7 Date Sampled: 12/03/2009 0900
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030919.D
Dilution:	1.0			Initial Weight/Volume:	5.50 g
Date Analyzed:	12/04/2009 0114			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.5
Acetone		ND		45
Benzene		ND		4.5
Dichlorobromomethane		ND		4.5
Bromobenzene		ND		4.5
Chlorobromomethane		ND		18
Bromoform		ND	*	4.5
Bromomethane		ND		9.1
2-Butanone (MEK)		ND	*	45
n-Butylbenzene		ND		4.5
sec-Butylbenzene		ND		4.5
tert-Butylbenzene		ND		4.5
Carbon disulfide		ND	*	4.5
Carbon tetrachloride		ND		4.5
Chlorobenzene		ND		4.5
Chloroethane		ND		9.1
Chloroform		ND		4.5
Chloromethane		ND		9.1
2-Chlorotoluene		ND		4.5
4-Chlorotoluene		ND		4.5
Chlorodibromomethane		ND		4.5
1,2-Dichlorobenzene		ND		4.5
1,3-Dichlorobenzene		ND		4.5
1,4-Dichlorobenzene		ND		4.5
1,3-Dichloropropane		ND	*	4.5
1,1-Dichloropropene		ND		4.5
1,2-Dibromo-3-Chloropropane		ND	*	4.5
Ethylene Dibromide		ND	*	4.5
Dibromomethane		ND	*	9.1
Dichlorodifluoromethane		ND		9.1
1,1-Dichloroethane		ND		4.5
1,2-Dichloroethane		ND	*	4.5
1,1-Dichloroethene		ND		4.5
cis-1,2-Dichloroethene		ND		4.5
trans-1,2-Dichloroethene		ND		4.5
1,2-Dichloropropane		ND		4.5
cis-1,3-Dichloropropene		ND		4.5
trans-1,3-Dichloropropene		ND		4.5
Ethylbenzene		ND		4.5
Hexachlorobutadiene		ND		4.5
2-Hexanone		ND	*	45
Isopropylbenzene		ND		4.5
4-Isopropyltoluene		ND		4.5
Methylene Chloride		ND		9.1
4-Methyl-2-pentanone (MIBK)		ND	*	45
Naphthalene		ND	*	9.1

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@1**

Lab Sample ID: 720-24444-7 Date Sampled: 12/03/2009 0900
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030919.D
Dilution:	1.0			Initial Weight/Volume:	5.50 g
Date Analyzed:	12/04/2009 0114			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.5
Styrene		ND		4.5
1,1,1,2-Tetrachloroethane		ND		4.5
1,1,2,2-Tetrachloroethane		ND	*	4.5
Tetrachloroethene		ND		4.5
Toluene		ND		4.5
1,2,3-Trichlorobenzene		ND	*	4.5
1,2,4-Trichlorobenzene		ND		4.5
1,1,1-Trichloroethane		ND		4.5
1,1,2-Trichloroethane		ND	*	4.5
Trichloroethene		ND		4.5
Trichlorofluoromethane		ND		4.5
1,2,3-Trichloropropane		ND	*	4.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.5
1,2,4-Trimethylbenzene		ND		4.5
1,3,5-Trimethylbenzene		ND		4.5
Vinyl acetate		ND		45
Vinyl chloride		ND		4.5
Xylenes, Total		ND		9.1
2,2-Dichloropropane		ND		4.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		52 - 140
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@5**

Lab Sample ID: 720-24444-8 Date Sampled: 12/03/2009 0911
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030920.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 0149			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND	*	5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND	*	50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND	*	5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND	*	5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND	*	5.0
Ethylene Dibromide		ND	*	5.0
Dibromomethane		ND	*	10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND	*	5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND	*	50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10
4-Methyl-2-pentanone (MIBK)		ND	*	50
Naphthalene		ND	*	10

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@5**

Lab Sample ID: 720-24444-8 Date Sampled: 12/03/2009 0911
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030920.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 0149			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND	*	5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND	*	5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND	*	5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND	*	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		52 - 140
1,2-Dichloroethane-d4 (Surr)	129		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@10**

Lab Sample ID: 720-24444-9 Date Sampled: 12/03/2009 0928
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030921.D
Dilution:	1.0			Initial Weight/Volume:	5.98 g
Date Analyzed:	12/04/2009 0222			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.2
Acetone		ND		42
Benzene		ND		4.2
Dichlorobromomethane		ND		4.2
Bromobenzene		ND		4.2
Chlorobromomethane		ND		17
Bromoform		ND	*	4.2
Bromomethane		ND		8.4
2-Butanone (MEK)		ND	*	42
n-Butylbenzene		ND		4.2
sec-Butylbenzene		ND		4.2
tert-Butylbenzene		ND		4.2
Carbon disulfide		ND	*	4.2
Carbon tetrachloride		ND		4.2
Chlorobenzene		ND		4.2
Chloroethane		ND		8.4
Chloroform		ND		4.2
Chloromethane		ND		8.4
2-Chlorotoluene		ND		4.2
4-Chlorotoluene		ND		4.2
Chlorodibromomethane		ND		4.2
1,2-Dichlorobenzene		ND		4.2
1,3-Dichlorobenzene		ND		4.2
1,4-Dichlorobenzene		ND		4.2
1,3-Dichloropropane		ND	*	4.2
1,1-Dichloropropene		ND		4.2
1,2-Dibromo-3-Chloropropane		ND	*	4.2
Ethylene Dibromide		ND	*	4.2
Dibromomethane		ND	*	8.4
Dichlorodifluoromethane		ND		8.4
1,1-Dichloroethane		ND		4.2
1,2-Dichloroethane		ND	*	4.2
1,1-Dichloroethene		ND		4.2
cis-1,2-Dichloroethene		ND		4.2
trans-1,2-Dichloroethene		ND		4.2
1,2-Dichloropropane		ND		4.2
cis-1,3-Dichloropropene		ND		4.2
trans-1,3-Dichloropropene		ND		4.2
Ethylbenzene		ND		4.2
Hexachlorobutadiene		ND		4.2
2-Hexanone		ND	*	42
Isopropylbenzene		ND		4.2
4-Isopropyltoluene		ND		4.2
Methylene Chloride		ND		8.4
4-Methyl-2-pentanone (MIBK)		ND	*	42
Naphthalene		ND	*	8.4

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@10**

Lab Sample ID: 720-24444-9 Date Sampled: 12/03/2009 0928
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030921.D
Dilution:	1.0			Initial Weight/Volume:	5.98 g
Date Analyzed:	12/04/2009 0222			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.2
Styrene		ND		4.2
1,1,1,2-Tetrachloroethane		ND		4.2
1,1,2,2-Tetrachloroethane		ND	*	4.2
Tetrachloroethene		ND		4.2
Toluene		ND		4.2
1,2,3-Trichlorobenzene		ND	*	4.2
1,2,4-Trichlorobenzene		ND		4.2
1,1,1-Trichloroethane		ND		4.2
1,1,2-Trichloroethane		ND	*	4.2
Trichloroethene		ND		4.2
Trichlorofluoromethane		ND		4.2
1,2,3-Trichloropropane		ND	*	4.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.2
1,2,4-Trimethylbenzene		ND		4.2
1,3,5-Trimethylbenzene		ND		4.2
Vinyl acetate		ND		42
Vinyl chloride		ND		4.2
Xylenes, Total		ND		8.4
2,2-Dichloropropane		ND		4.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		52 - 140
1,2-Dichloroethane-d4 (Surr)	120		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@1**

Lab Sample ID: 720-24444-10 Date Sampled: 12/03/2009 0910
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030922.D
Dilution:	1.0			Initial Weight/Volume:	4.52 g
Date Analyzed:	12/04/2009 0254			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.5
Acetone		ND		55
Benzene		ND		5.5
Dichlorobromomethane		ND		5.5
Bromobenzene		ND		5.5
Chlorobromomethane		ND		22
Bromoform		ND	*	5.5
Bromomethane		ND		11
2-Butanone (MEK)		ND	*	55
n-Butylbenzene		ND		5.5
sec-Butylbenzene		ND		5.5
tert-Butylbenzene		ND		5.5
Carbon disulfide		ND	*	5.5
Carbon tetrachloride		ND		5.5
Chlorobenzene		ND		5.5
Chloroethane		ND		11
Chloroform		ND		5.5
Chloromethane		ND		11
2-Chlorotoluene		ND		5.5
4-Chlorotoluene		ND		5.5
Chlorodibromomethane		ND		5.5
1,2-Dichlorobenzene		ND		5.5
1,3-Dichlorobenzene		ND		5.5
1,4-Dichlorobenzene		ND		5.5
1,3-Dichloropropane		ND	*	5.5
1,1-Dichloropropene		ND		5.5
1,2-Dibromo-3-Chloropropane		ND	*	5.5
Ethylene Dibromide		ND	*	5.5
Dibromomethane		ND	*	11
Dichlorodifluoromethane		ND		11
1,1-Dichloroethane		ND		5.5
1,2-Dichloroethane		ND	*	5.5
1,1-Dichloroethene		ND		5.5
cis-1,2-Dichloroethene		ND		5.5
trans-1,2-Dichloroethene		ND		5.5
1,2-Dichloropropane		ND		5.5
cis-1,3-Dichloropropene		ND		5.5
trans-1,3-Dichloropropene		ND		5.5
Ethylbenzene		ND		5.5
Hexachlorobutadiene		ND		5.5
2-Hexanone		ND	*	55
Isopropylbenzene		ND		5.5
4-Isopropyltoluene		ND		5.5
Methylene Chloride		ND		11
4-Methyl-2-pentanone (MIBK)		ND	*	55
Naphthalene		ND	*	11

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@1**

Lab Sample ID: 720-24444-10 Date Sampled: 12/03/2009 0910
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030922.D
Dilution:	1.0			Initial Weight/Volume:	4.52 g
Date Analyzed:	12/04/2009 0254			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.5
Styrene		ND		5.5
1,1,1,2-Tetrachloroethane		ND		5.5
1,1,2,2-Tetrachloroethane		ND	*	5.5
Tetrachloroethene		ND		5.5
Toluene		ND		5.5
1,2,3-Trichlorobenzene		ND	*	5.5
1,2,4-Trichlorobenzene		ND		5.5
1,1,1-Trichloroethane		ND		5.5
1,1,2-Trichloroethane		ND	*	5.5
Trichloroethene		ND		5.5
Trichlorofluoromethane		ND		5.5
1,2,3-Trichloropropane		ND	*	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.5
1,2,4-Trimethylbenzene		ND		5.5
1,3,5-Trimethylbenzene		ND		5.5
Vinyl acetate		ND		55
Vinyl chloride		ND		5.5
Xylenes, Total		ND		11
2,2-Dichloropropane		ND		5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		52 - 140
1,2-Dichloroethane-d4 (Surr)	126		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@5**

Lab Sample ID: 720-24444-11 Date Sampled: 12/03/2009 0916
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030923.D
Dilution:	1.0			Initial Weight/Volume:	4.87 g
Date Analyzed:	12/04/2009 0325			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.1
Acetone		ND		51
Benzene		ND		5.1
Dichlorobromomethane		ND		5.1
Bromobenzene		ND		5.1
Chlorobromomethane		ND		21
Bromoform		ND	*	5.1
Bromomethane		ND		10
2-Butanone (MEK)		ND	*	51
n-Butylbenzene		ND		5.1
sec-Butylbenzene		ND		5.1
tert-Butylbenzene		ND		5.1
Carbon disulfide		ND	*	5.1
Carbon tetrachloride		ND		5.1
Chlorobenzene		ND		5.1
Chloroethane		ND		10
Chloroform		ND		5.1
Chloromethane		ND		10
2-Chlorotoluene		ND		5.1
4-Chlorotoluene		ND		5.1
Chlorodibromomethane		ND		5.1
1,2-Dichlorobenzene		ND		5.1
1,3-Dichlorobenzene		ND		5.1
1,4-Dichlorobenzene		ND		5.1
1,3-Dichloropropane		ND	*	5.1
1,1-Dichloropropene		ND		5.1
1,2-Dibromo-3-Chloropropane		ND	*	5.1
Ethylene Dibromide		ND	*	5.1
Dibromomethane		ND	*	10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.1
1,2-Dichloroethane		ND	*	5.1
1,1-Dichloroethene		ND		5.1
cis-1,2-Dichloroethene		ND		5.1
trans-1,2-Dichloroethene		ND		5.1
1,2-Dichloropropane		ND		5.1
cis-1,3-Dichloropropene		ND		5.1
trans-1,3-Dichloropropene		ND		5.1
Ethylbenzene		ND		5.1
Hexachlorobutadiene		ND		5.1
2-Hexanone		ND	*	51
Isopropylbenzene		ND		5.1
4-Isopropyltoluene		ND		5.1
Methylene Chloride		ND		10
4-Methyl-2-pentanone (MIBK)		ND	*	51
Naphthalene		ND	*	10

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@5**

Lab Sample ID: 720-24444-11 Date Sampled: 12/03/2009 0916
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030923.D
Dilution:	1.0			Initial Weight/Volume:	4.87 g
Date Analyzed:	12/04/2009 0325			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.1
Styrene		ND		5.1
1,1,1,2-Tetrachloroethane		ND		5.1
1,1,2,2-Tetrachloroethane		ND	*	5.1
Tetrachloroethene		ND		5.1
Toluene		ND		5.1
1,2,3-Trichlorobenzene		ND	*	5.1
1,2,4-Trichlorobenzene		ND		5.1
1,1,1-Trichloroethane		ND		5.1
1,1,2-Trichloroethane		ND	*	5.1
Trichloroethene		ND		5.1
Trichlorofluoromethane		ND		5.1
1,2,3-Trichloropropane		ND	*	5.1
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.1
1,2,4-Trimethylbenzene		ND		5.1
1,3,5-Trimethylbenzene		ND		5.1
Vinyl acetate		ND		51
Vinyl chloride		ND		5.1
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	88		52 - 140
1,2-Dichloroethane-d4 (Surr)	129		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@10**

Lab Sample ID: 720-24444-12 Date Sampled: 12/03/2009 0931
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030924.D
Dilution:	1.0			Initial Weight/Volume:	4.48 g
Date Analyzed:	12/04/2009 0356			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	5.6
Acetone		ND		56
Benzene		ND		5.6
Dichlorobromomethane		ND		5.6
Bromobenzene		ND		5.6
Chlorobromomethane		ND		22
Bromoform		ND	*	5.6
Bromomethane		ND		11
2-Butanone (MEK)		ND	*	56
n-Butylbenzene		ND		5.6
sec-Butylbenzene		ND		5.6
tert-Butylbenzene		ND		5.6
Carbon disulfide		ND	*	5.6
Carbon tetrachloride		ND		5.6
Chlorobenzene		ND		5.6
Chloroethane		ND		11
Chloroform		ND		5.6
Chloromethane		ND		11
2-Chlorotoluene		ND		5.6
4-Chlorotoluene		ND		5.6
Chlorodibromomethane		ND		5.6
1,2-Dichlorobenzene		ND		5.6
1,3-Dichlorobenzene		ND		5.6
1,4-Dichlorobenzene		ND		5.6
1,3-Dichloropropane		ND	*	5.6
1,1-Dichloropropene		ND		5.6
1,2-Dibromo-3-Chloropropane		ND	*	5.6
Ethylene Dibromide		ND	*	5.6
Dibromomethane		ND	*	11
Dichlorodifluoromethane		ND		11
1,1-Dichloroethane		ND		5.6
1,2-Dichloroethane		ND	*	5.6
1,1-Dichloroethene		ND		5.6
cis-1,2-Dichloroethene		ND		5.6
trans-1,2-Dichloroethene		ND		5.6
1,2-Dichloropropane		ND		5.6
cis-1,3-Dichloropropene		ND		5.6
trans-1,3-Dichloropropene		ND		5.6
Ethylbenzene		ND		5.6
Hexachlorobutadiene		ND		5.6
2-Hexanone		ND	*	56
Isopropylbenzene		ND		5.6
4-Isopropyltoluene		ND		5.6
Methylene Chloride		ND		11
4-Methyl-2-pentanone (MIBK)		ND	*	56
Naphthalene		ND	*	11

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@10**

Lab Sample ID: 720-24444-12 Date Sampled: 12/03/2009 0931
Client Matrix: Solid Date Received: 12/03/2009 1753

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62411		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62449		Lab File ID:	12030924.D
Dilution:	1.0			Initial Weight/Volume:	4.48 g
Date Analyzed:	12/04/2009 0356			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.6
Styrene		ND		5.6
1,1,1,2-Tetrachloroethane		ND		5.6
1,1,2,2-Tetrachloroethane		ND	*	5.6
Tetrachloroethene		ND		5.6
Toluene		ND		5.6
1,2,3-Trichlorobenzene		ND	*	5.6
1,2,4-Trichlorobenzene		ND		5.6
1,1,1-Trichloroethane		ND		5.6
1,1,2-Trichloroethane		ND	*	5.6
Trichloroethene		ND		5.6
Trichlorofluoromethane		ND		5.6
1,2,3-Trichloropropane		ND	*	5.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.6
1,2,4-Trimethylbenzene		ND		5.6
1,3,5-Trimethylbenzene		ND		5.6
Vinyl acetate		ND		56
Vinyl chloride		ND		5.6
Xylenes, Total		ND		11
2,2-Dichloropropane		ND		5.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		52 - 140
1,2-Dichloroethane-d4 (Surr)	125		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@1**

Lab Sample ID: 720-24444-1 Date Sampled: 12/03/2009 0835
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408	Initial Weight/Volume:	30.01 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0144		Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	73		32 - 112
DCB Decachlorobiphenyl	56		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@5**

Lab Sample ID: 720-24444-2 Date Sampled: 12/03/2009 0843
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408		Initial Weight/Volume:	30.07 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0206			Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		32 - 112
DCB Decachlorobiphenyl	69		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4A@10**

Lab Sample ID: 720-24444-3 Date Sampled: 12/03/2009 0900
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408		Initial Weight/Volume:	30.06 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0228			Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		32 - 112
DCB Decachlorobiphenyl	79		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@1**

Lab Sample ID: 720-24444-4 Date Sampled: 12/03/2009 0837
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408	Initial Weight/Volume:	30.01 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0250		Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		32 - 112
DCB Decachlorobiphenyl	81		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@5**

Lab Sample ID: 720-24444-5 Date Sampled: 12/03/2009 0844
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408		Initial Weight/Volume:	30.01 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0312			Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	79		32 - 112
DCB Decachlorobiphenyl	87		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4W1@10**

Lab Sample ID: 720-24444-6 Date Sampled: 12/03/2009 0857
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408	Initial Weight/Volume:	30.05 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0334		Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		32 - 112
DCB Decachlorobiphenyl	86		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@1**

Lab Sample ID: 720-24444-7 Date Sampled: 12/03/2009 0900
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408	Initial Weight/Volume:	30.07 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0356		Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		32 - 112
DCB Decachlorobiphenyl	76		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@5**

Lab Sample ID: 720-24444-8 Date Sampled: 12/03/2009 0911
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408		Initial Weight/Volume:	30.02 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0418			Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		32 - 112
DCB Decachlorobiphenyl	85		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4S1@10**

Lab Sample ID: 720-24444-9 Date Sampled: 12/03/2009 0928
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408	Initial Weight/Volume:	30.05 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0440		Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		32 - 112
DCB Decachlorobiphenyl	73		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@1**

Lab Sample ID: 720-24444-10 Date Sampled: 12/03/2009 0910
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408		Initial Weight/Volume:	30.10 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0501			Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		32 - 112
DCB Decachlorobiphenyl	82		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@5**

Lab Sample ID: 720-24444-11 Date Sampled: 12/03/2009 0916
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408	Initial Weight/Volume:	30.08 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0523		Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	78		32 - 112
DCB Decachlorobiphenyl	84		2 - 122

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Client Sample ID: **SB-CPT4N1@10**

Lab Sample ID: 720-24444-12 Date Sampled: 12/03/2009 0931
Client Matrix: Solid Date Received: 12/03/2009 1753

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-62416		Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-62408		Initial Weight/Volume:	30.03 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	12/04/2009 0545			Injection Volume:	1 uL
Date Prepared:	12/03/2009 1851			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	81		32 - 112
DCB Decachlorobiphenyl	85		2 - 122

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 720-24444-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	*	RPD of the LCS and LCSD exceeds the control limits

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-62411					
LCS 720-62449/1-A	Lab Control Sample	T	Solid	8260B	720-62449
LCSD 720-62449/2-A	Lab Control Sample Duplicate	T	Solid	8260B	720-62449
MB 720-62449/5-A	Method Blank	T	Solid	8260B	720-62449
720-24444-1	SB-CPT4A@1	T	Solid	8260B	720-62449
720-24444-2	SB-CPT4A@5	T	Solid	8260B	720-62449
720-24444-3	SB-CPT4A@10	T	Solid	8260B	720-62449
720-24444-4	SB-CPT4W1@1	T	Solid	8260B	720-62449
720-24444-5	SB-CPT4W1@5	T	Solid	8260B	720-62449
720-24444-6	SB-CPT4W1@10	T	Solid	8260B	720-62449
720-24444-7	SB-CPT4S1@1	T	Solid	8260B	720-62449
720-24444-8	SB-CPT4S1@5	T	Solid	8260B	720-62449
720-24444-9	SB-CPT4S1@10	T	Solid	8260B	720-62449
720-24444-10	SB-CPT4N1@1	T	Solid	8260B	720-62449
720-24444-11	SB-CPT4N1@5	T	Solid	8260B	720-62449
720-24444-12	SB-CPT4N1@10	T	Solid	8260B	720-62449
Prep Batch: 720-62449					
LCS 720-62449/1-A	Lab Control Sample	T	Solid	5035	
LCSD 720-62449/2-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 720-62449/5-A	Method Blank	T	Solid	5035	
720-24444-1	SB-CPT4A@1	T	Solid	5035	
720-24444-2	SB-CPT4A@5	T	Solid	5035	
720-24444-3	SB-CPT4A@10	T	Solid	5035	
720-24444-4	SB-CPT4W1@1	T	Solid	5035	
720-24444-5	SB-CPT4W1@5	T	Solid	5035	
720-24444-6	SB-CPT4W1@10	T	Solid	5035	
720-24444-7	SB-CPT4S1@1	T	Solid	5035	
720-24444-8	SB-CPT4S1@5	T	Solid	5035	
720-24444-9	SB-CPT4S1@10	T	Solid	5035	
720-24444-10	SB-CPT4N1@1	T	Solid	5035	
720-24444-11	SB-CPT4N1@5	T	Solid	5035	
720-24444-12	SB-CPT4N1@10	T	Solid	5035	

Report Basis
T = Total

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-62408					
LCS 720-62408/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-62408/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-62408/1-A	Method Blank	T	Solid	3550B	
720-24444-1	SB-CPT4A@1	T	Solid	3550B	
720-24444-2	SB-CPT4A@5	T	Solid	3550B	
720-24444-3	SB-CPT4A@10	T	Solid	3550B	
720-24444-4	SB-CPT4W1@1	T	Solid	3550B	
720-24444-5	SB-CPT4W1@5	T	Solid	3550B	
720-24444-6	SB-CPT4W1@10	T	Solid	3550B	
720-24444-7	SB-CPT4S1@1	T	Solid	3550B	
720-24444-8	SB-CPT4S1@5	T	Solid	3550B	
720-24444-9	SB-CPT4S1@10	T	Solid	3550B	
720-24444-10	SB-CPT4N1@1	T	Solid	3550B	
720-24444-11	SB-CPT4N1@5	T	Solid	3550B	
720-24444-12	SB-CPT4N1@10	T	Solid	3550B	
Analysis Batch:720-62416					
LCS 720-62408/2-A	Lab Control Sample	T	Solid	8082	720-62408
LCSD 720-62408/3-A	Lab Control Sample Duplicate	T	Solid	8082	720-62408
MB 720-62408/1-A	Method Blank	T	Solid	8082	720-62408
720-24444-1	SB-CPT4A@1	T	Solid	8082	720-62408
720-24444-2	SB-CPT4A@5	T	Solid	8082	720-62408
720-24444-3	SB-CPT4A@10	T	Solid	8082	720-62408
720-24444-4	SB-CPT4W1@1	T	Solid	8082	720-62408
720-24444-5	SB-CPT4W1@5	T	Solid	8082	720-62408
720-24444-6	SB-CPT4W1@10	T	Solid	8082	720-62408
720-24444-7	SB-CPT4S1@1	T	Solid	8082	720-62408
720-24444-8	SB-CPT4S1@5	T	Solid	8082	720-62408
720-24444-9	SB-CPT4S1@10	T	Solid	8082	720-62408
720-24444-10	SB-CPT4N1@1	T	Solid	8082	720-62408
720-24444-11	SB-CPT4N1@5	T	Solid	8082	720-62408
720-24444-12	SB-CPT4N1@10	T	Solid	8082	720-62408

Report Basis
T = Total

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Method Blank - Batch: 720-62449

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 720-62449/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 2128
Date Prepared: 12/03/2009 1900

Analysis Batch: 720-62411
Prep Batch: 720-62449
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 12030912.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		5.0
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Method Blank - Batch: 720-62449

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 720-62449/5-A	Analysis Batch:	720-62411	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62449	Lab File ID:	12030912.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 2128			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	96	52 - 140
1,2-Dichloroethane-d4 (Surr)	122	60 - 140
Toluene-d8 (Surr)	98	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62449

Method: 8260B
Preparation: 5035

LCS Lab Sample ID: LCS 720-62449/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 1918
Date Prepared: 12/03/2009 1900

Analysis Batch: 720-62411
Prep Batch: 720-62449
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 12030908.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-62449/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 1951
Date Prepared: 12/03/2009 1900

Analysis Batch: 720-62411
Prep Batch: 720-62449
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 12030909.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	136	142	69 - 125	4	20	*	*
Acetone	146	148	37 - 150	1	20		
Benzene	109	113	72 - 120	4	20		
Dichlorobromomethane	124	130	64 - 135	5	20		
Bromobenzene	108	113	77 - 121	5	20		
Chlorobromomethane	121	125	65 - 128	4	20		
Bromoform	135	140	58 - 132	4	20	*	*
Bromomethane	91	95	56 - 124	5	20		
2-Butanone (MEK)	156	163	41 - 150	5	20	*	*
n-Butylbenzene	114	118	60 - 145	3	20		
sec-Butylbenzene	109	113	64 - 137	3	20		
tert-Butylbenzene	106	110	63 - 134	3	20		
Carbon disulfide	80	123	10 - 150	43	20		*
Carbon tetrachloride	100	104	54 - 141	4	20		
Chlorobenzene	111	114	70 - 121	3	20		
Chloroethane	83	87	61 - 125	4	20		
Chloroform	100	105	67 - 125	5	20		
Chloromethane	71	73	50 - 131	3	20		
2-Chlorotoluene	109	113	75 - 131	4	20		
4-Chlorotoluene	109	111	76 - 129	2	20		
Chlorodibromomethane	114	118	60 - 140	4	20		
1,2-Dichlorobenzene	118	122	73 - 126	3	20		
1,3-Dichlorobenzene	112	115	73 - 128	3	20		
1,4-Dichlorobenzene	111	115	72 - 122	4	20		
1,3-Dichloropropane	141	149	74 - 127	5	20	*	*
1,1-Dichloropropene	104	108	67 - 128	4	20		
1,2-Dibromo-3-Chloropropane	157	163	57 - 130	4	20	*	*
Ethylene Dibromide	149	155	66 - 135	4	20	*	*
Dibromomethane	131	141	65 - 131	7	20		*
Dichlorodifluoromethane	66	69	38 - 120	4	20		
1,1-Dichloroethane	105	110	67 - 126	4	20		
1,2-Dichloroethane	127	132	73 - 122	4	20	*	*

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62449

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62449/1-A	Analysis Batch:	720-62411	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62449	Lab File ID:	12030908.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1918			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

LCSD Lab Sample ID:	LCSD 720-62449/2-A	Analysis Batch:	720-62411	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62449	Lab File ID:	12030909.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1951			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	99	103	64 - 129	4	20		
cis-1,2-Dichloroethene	113	118	68 - 131	5	20		
trans-1,2-Dichloroethene	97	103	70 - 130	6	20		
1,2-Dichloropropane	116	122	65 - 133	5	20		
cis-1,3-Dichloropropene	124	129	46 - 139	4	20		
trans-1,3-Dichloropropene	123	128	55 - 131	5	20		
Ethylbenzene	107	110	65 - 130	3	20		
Hexachlorobutadiene	104	105	58 - 132	1	20		
2-Hexanone	164	171	44 - 150	4	20	*	*
Isopropylbenzene	98	101	65 - 130	3	20		
4-Isopropyltoluene	96	99	69 - 134	3	20		
Methylene Chloride	98	103	63 - 129	5	20		
4-Methyl-2-pentanone (MIBK)	168	178	51 - 140	6	20	*	*
Naphthalene	177	181	45 - 146	2	20	*	*
N-Propylbenzene	101	105	71 - 130	4	20		
Styrene	114	118	58 - 135	4	20		
1,1,1,2-Tetrachloroethane	116	119	64 - 133	3	20		
1,1,2,2-Tetrachloroethane	143	152	75 - 131	6	20	*	*
Tetrachloroethene	98	102	67 - 128	4	20		
Toluene	97	101	72 - 120	3	20		
1,2,3-Trichlorobenzene	148	149	58 - 138	1	20	*	*
1,2,4-Trichlorobenzene	129	132	49 - 144	2	20		
1,1,1-Trichloroethane	97	102	57 - 133	5	20		
1,1,2-Trichloroethane	145	151	68 - 132	4	20	*	*
Trichloroethene	105	109	66 - 125	5	20		
Trichlorofluoromethane	90	93	61 - 127	4	20		
1,2,3-Trichloropropane	150	157	62 - 150	4	20		*
1,1,2-Trichloro-1,2,2-trifluoroethane	98	102	52 - 126	5	20		
1,2,4-Trimethylbenzene	115	118	64 - 140	2	20		
1,3,5-Trimethylbenzene	105	109	67 - 134	4	20		
Vinyl acetate	133	134	52 - 150	1	20		
Vinyl chloride	69	71	62 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62449

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62449/1-A	Analysis Batch:	720-62411	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62449	Lab File ID:	12030908.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1918			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

LCSD Lab Sample ID:	LCSD 720-62449/2-A	Analysis Batch:	720-62411	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62449	Lab File ID:	12030909.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1951			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
m-Xylene & p-Xylene	110	113	70 - 130	3	20		
o-Xylene	112	115	68 - 130	3	20		
2,2-Dichloropropane	99	102	63 - 130	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	107	106	52 - 140
1,2-Dichloroethane-d4 (Surr)	115	121	60 - 140
Toluene-d8 (Surr)	102	101	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Method Blank - Batch: 720-62408

Method: 8082
Preparation: 3550B

Lab Sample ID: MB 720-62408/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 2249
Date Prepared: 12/03/2009 1545

Analysis Batch: 720-62416
Prep Batch: 720-62408
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: m1203024.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	77	32 - 112
DCB Decachlorobiphenyl	91	2 - 122

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62408

Method: 8082
Preparation: 3550B

LCS Lab Sample ID:	LCS 720-62408/2-A	Analysis Batch:	720-62416	Instrument ID:	Agilent PCB 2
Client Matrix:	Solid	Prep Batch:	720-62408	Lab File ID:	m1203025.d
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.03 g
Date Analyzed:	12/03/2009 2311			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1545			Injection Volume:	1 uL
				Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 720-62408/3-A	Analysis Batch:	720-62416	Instrument ID:	Agilent PCB 2
Client Matrix:	Solid	Prep Batch:	720-62408	Lab File ID:	m1203026.d
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.07 g
Date Analyzed:	12/03/2009 2333			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1545			Injection Volume:	1 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	97	96	69 - 120	1	20		
PCB-1260	92	97	73 - 114	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	87	85	32 - 112
DCB Decachlorobiphenyl	92	96	2 - 122

Calculations are performed before rounding to avoid round-off errors in calculated results.

ARCADIS

Laboratory Task Order No./I.C. No. 720-24444

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

120896

Project Number/Name RC000746.2.6

Project Location Oakley, CA

Laboratory Test America

Project Manager J. Maehr / KB

Sampler(s)/Affiliation KB/AV

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	PCBs	Low Level VOCs				24 hr Rush	Remarks	Total
SB-CPTA@1	S	12/3/09 0835		X	X				X		5 4
SB-CPTA@5	S	12/3/09 0843									5
SB-CPTA@10	S	0900									5
SB-CPTN1@1	S	0837									5
SB-CPTN1@5	S	0844									5
SB-CPTN1@10	S	0857									5
SB-CPT4S1@1		0900									5
SB-CPT4S1@5		0911									5
SB-CPT4S1@10		0928									5
SB-CPT4N1@1		0910									5
SB-CPT4N1@5		0916									5
SB-CPT4N1@10		0931									5

RUSH

AV

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 60 40

Relinquished by: Andrea Valdivia	Organization: Arcadis	Date 12/03/09	Time 1755	Seal Intact? Yes No N/A
Received by: [illegible]	Organization: TEST America	Date 12/03/09	Time 1753	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks:

16.42

Delivery Method: ☐ In Person ☐ Common Carrier (SPECIFY) ☐ Lab Courier ☐ Other (SPECIFY)

AG 85-12/01

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 720-24444-1

Login Number: 24444

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

ANALYTICAL REPORT

Job Number: 720-24445-1

Job Description: Oakley, CA

For:
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, CA 94608

Attention: Ms. Katherine Brandt

Approved for release.
Dimple Sharma
Project Manager I
12/7/2009 1:37 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
12/07/2009

cc: Ms. Teresa O'Reilly

CA ELAP Certification # 2496
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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-24445-1

Comments
No additional comments.

Receipt
All samples were received at the laboratory outside the required temperature criteria: No ice.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for preparation batch 62411 exceeded control limits for the following analytes: 1,1,2,2-tetrachloroethane, 1,1,2-tirchloroethane, 1,2,3-trichorobenzene, 1,2-dibromo-3-chloropropane, MEK, 2-hexanone, MIBK, bromoform, ethylene dibromide, MTBE, napthalene, 1,2,3-trichlorpropane and dibromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 62411 exceeded control limits for the following analytes: carbon disulfide.

Method 8260B: Surrogate recovery for the following sample(s) was outside the upper control limit: SB-34A@5' (720-24445-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Internal standard 1,4-dichlorobenzene-d4 response was outside of acceptance limits for the following sample(s): SB-18A@1' (720-24445-5), SB-34A@1' (720-24445-1). The sample(s) shows evidence of matrix interference; confirmed by re-analysis.

Method 8260B: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 62423 exceeded control limits for the following analytes: 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dichloroethane, 1,3-dichloropropane, 2-hexanone, MIBK, bromoform, ethylene dibromide, MTBE, napthalene, 2-butanone, dibromomethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS/LCSD) for preparation batch #62427 exceeded control limits for the following analytes: MIBK. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): SB-19A@1' (720-24445-9). The sample(s) shows evidence of matrix interference and cofirmed by reanalysis.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-24445-1	**SB-34A@1'**				
Acetone		69	46	ug/Kg	8260B
720-24445-3	**SB-38A@1'**				
Acetone		50	43	ug/Kg	8260B
720-24445-5	**SB-18A@1'**				
Acetone		75	46	ug/Kg	8260B
720-24445-7	**SB-40A@1'**				
Acetone		63	42	ug/Kg	8260B
720-24445-9	**SB-19A@1'**				
Acetone		45	39	ug/Kg	8260B

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Closed System Purge and Trap	TAL SF		SW846 5035

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-24445-1	SB-34A@1'	Solid	12/03/2009 1037	12/03/2009 1757
720-24445-2	SB-34A@5'	Solid	12/03/2009 1043	12/03/2009 1757
720-24445-3	SB-38A@1'	Solid	12/03/2009 1055	12/03/2009 1757
720-24445-4	SB-38A@5'	Solid	12/03/2009 1105	12/03/2009 1757
720-24445-5	SB-18A@1'	Solid	12/03/2009 1109	12/03/2009 1757
720-24445-6	SB-18A@5'	Solid	12/03/2009 1118	12/03/2009 1757
720-24445-7	SB-40A@1'	Solid	12/03/2009 1125	12/03/2009 1757
720-24445-8	SB-40A@5'	Solid	12/03/2009 1135	12/03/2009 1757
720-24445-9	SB-19A@1'	Solid	12/03/2009 1139	12/03/2009 1757
720-24445-10	SB-19A@5'	Solid	12/03/2009 1151	12/03/2009 1757
720-24445-11	SB-21A@1'	Solid	12/03/2009 1313	12/03/2009 1757
720-24445-12	SB-21A@5'	Solid	12/03/2009 1320	12/03/2009 1757
720-24445-13	SB-4A@1'	Solid	12/03/2009 1330	12/03/2009 1757
720-24445-14	SB-4A@5'	Solid	12/03/2009 1335	12/03/2009 1757
720-24445-15	SB68A@1'	Solid	12/03/2009 1358	12/03/2009 1757
720-24445-16	SB68A@5'	Solid	12/03/2009 1401	12/03/2009 1757

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-34A@1'**

Lab Sample ID: 720-24445-1 Date Sampled: 12/03/2009 1037
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040916.D
Dilution:	1.0			Initial Weight/Volume:	5.48 g
Date Analyzed:	12/04/2009 1457			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.6
Acetone		69		46
Benzene		ND		4.6
Dichlorobromomethane		ND		4.6
Bromobenzene		ND		4.6
Chlorobromomethane		ND		18
Bromoform		ND	*	4.6
Bromomethane		ND		9.1
2-Butanone (MEK)		ND	*	46
n-Butylbenzene		ND		4.6
sec-Butylbenzene		ND		4.6
tert-Butylbenzene		ND		4.6
Carbon disulfide		ND		4.6
Carbon tetrachloride		ND		4.6
Chlorobenzene		ND		4.6
Chloroethane		ND		9.1
Chloroform		ND		4.6
Chloromethane		ND		9.1
2-Chlorotoluene		ND		4.6
4-Chlorotoluene		ND		4.6
Chlorodibromomethane		ND		4.6
1,2-Dichlorobenzene		ND		4.6
1,3-Dichlorobenzene		ND		4.6
1,4-Dichlorobenzene		ND		4.6
1,3-Dichloropropane		ND	*	4.6
1,1-Dichloropropene		ND		4.6
1,2-Dibromo-3-Chloropropane		ND	*	4.6
Ethylene Dibromide		ND	*	4.6
Dibromomethane		ND	*	9.1
Dichlorodifluoromethane		ND		9.1
1,1-Dichloroethane		ND		4.6
1,2-Dichloroethane		ND	*	4.6
1,1-Dichloroethene		ND		4.6
cis-1,2-Dichloroethene		ND		4.6
trans-1,2-Dichloroethene		ND		4.6
1,2-Dichloropropane		ND		4.6
cis-1,3-Dichloropropene		ND		4.6
trans-1,3-Dichloropropene		ND		4.6
Ethylbenzene		ND		4.6
Hexachlorobutadiene		ND		4.6
2-Hexanone		ND	*	46
Isopropylbenzene		ND		4.6
4-Isopropyltoluene		ND		4.6
Methylene Chloride		ND		9.1
4-Methyl-2-pentanone (MIBK)		ND	*	46
Naphthalene		ND	*	9.1

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-34A@1'**

Lab Sample ID: 720-24445-1 Date Sampled: 12/03/2009 1037
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040916.D
Dilution:	1.0			Initial Weight/Volume:	5.48 g
Date Analyzed:	12/04/2009 1457			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.6
Styrene		ND		4.6
1,1,1,2-Tetrachloroethane		ND		4.6
1,1,2,2-Tetrachloroethane		ND	*	4.6
Tetrachloroethene		ND		4.6
Toluene		ND		4.6
1,2,3-Trichlorobenzene		ND	*	4.6
1,2,4-Trichlorobenzene		ND		4.6
1,1,1-Trichloroethane		ND		4.6
1,1,2-Trichloroethane		ND	*	4.6
Trichloroethene		ND		4.6
Trichlorofluoromethane		ND		4.6
1,2,3-Trichloropropane		ND	*	4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.6
1,2,4-Trimethylbenzene		ND		4.6
1,3,5-Trimethylbenzene		ND		4.6
Vinyl acetate		ND		46
Vinyl chloride		ND		4.6
Xylenes, Total		ND		9.1
2,2-Dichloropropane		ND		4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	78		52 - 140
1,2-Dichloroethane-d4 (Surr)	139		60 - 140
Toluene-d8 (Surr)	93		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-34A@5'**

Lab Sample ID: 720-24445-2 Date Sampled: 12/03/2009 1043
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040917.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	12/04/2009 1528			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.2
Acetone		ND		42
Benzene		ND		4.2
Dichlorobromomethane		ND		4.2
Bromobenzene		ND		4.2
Chlorobromomethane		ND		17
Bromoform		ND	*	4.2
Bromomethane		ND		8.4
2-Butanone (MEK)		ND	*	42
n-Butylbenzene		ND		4.2
sec-Butylbenzene		ND		4.2
tert-Butylbenzene		ND		4.2
Carbon disulfide		ND		4.2
Carbon tetrachloride		ND		4.2
Chlorobenzene		ND		4.2
Chloroethane		ND		8.4
Chloroform		ND		4.2
Chloromethane		ND		8.4
2-Chlorotoluene		ND		4.2
4-Chlorotoluene		ND		4.2
Chlorodibromomethane		ND		4.2
1,2-Dichlorobenzene		ND		4.2
1,3-Dichlorobenzene		ND		4.2
1,4-Dichlorobenzene		ND		4.2
1,3-Dichloropropane		ND	*	4.2
1,1-Dichloropropene		ND		4.2
1,2-Dibromo-3-Chloropropane		ND	*	4.2
Ethylene Dibromide		ND	*	4.2
Dibromomethane		ND	*	8.4
Dichlorodifluoromethane		ND		8.4
1,1-Dichloroethane		ND		4.2
1,2-Dichloroethane		ND	*	4.2
1,1-Dichloroethene		ND		4.2
cis-1,2-Dichloroethene		ND		4.2
trans-1,2-Dichloroethene		ND		4.2
1,2-Dichloropropane		ND		4.2
cis-1,3-Dichloropropene		ND		4.2
trans-1,3-Dichloropropene		ND		4.2
Ethylbenzene		ND		4.2
Hexachlorobutadiene		ND		4.2
2-Hexanone		ND	*	42
Isopropylbenzene		ND		4.2
4-Isopropyltoluene		ND		4.2
Methylene Chloride		ND		8.4
4-Methyl-2-pentanone (MIBK)		ND	*	42
Naphthalene		ND	*	8.4

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-34A@5'**

Lab Sample ID: 720-24445-2 Date Sampled: 12/03/2009 1043
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040917.D
Dilution:	1.0			Initial Weight/Volume:	5.97 g
Date Analyzed:	12/04/2009 1528			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.2
Styrene		ND		4.2
1,1,1,2-Tetrachloroethane		ND		4.2
1,1,2,2-Tetrachloroethane		ND	*	4.2
Tetrachloroethene		ND		4.2
Toluene		ND		4.2
1,2,3-Trichlorobenzene		ND	*	4.2
1,2,4-Trichlorobenzene		ND		4.2
1,1,1-Trichloroethane		ND		4.2
1,1,2-Trichloroethane		ND	*	4.2
Trichloroethene		ND		4.2
Trichlorofluoromethane		ND		4.2
1,2,3-Trichloropropane		ND	*	4.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.2
1,2,4-Trimethylbenzene		ND		4.2
1,3,5-Trimethylbenzene		ND		4.2
Vinyl acetate		ND		42
Vinyl chloride		ND		4.2
Xylenes, Total		ND		8.4
2,2-Dichloropropane		ND		4.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	143	X	60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-38A@1'**

Lab Sample ID: 720-24445-3 Date Sampled: 12/03/2009 1055
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030924.D
Dilution:	1.0			Initial Weight/Volume:	5.78 g
Date Analyzed:	12/03/2009 2150			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.3
Acetone		50		43
Benzene		ND		4.3
Dichlorobromomethane		ND		4.3
Bromobenzene		ND		4.3
Chlorobromomethane		ND		17
Bromoform		ND		4.3
Bromomethane		ND		8.7
2-Butanone (MEK)		ND		43
n-Butylbenzene		ND		4.3
sec-Butylbenzene		ND		4.3
tert-Butylbenzene		ND		4.3
Carbon disulfide		ND		4.3
Carbon tetrachloride		ND		4.3
Chlorobenzene		ND		4.3
Chloroethane		ND		8.7
Chloroform		ND		4.3
Chloromethane		ND		8.7
2-Chlorotoluene		ND		4.3
4-Chlorotoluene		ND		4.3
Chlorodibromomethane		ND		4.3
1,2-Dichlorobenzene		ND		4.3
1,3-Dichlorobenzene		ND		4.3
1,4-Dichlorobenzene		ND		4.3
1,3-Dichloropropane		ND		4.3
1,1-Dichloropropene		ND		4.3
1,2-Dibromo-3-Chloropropane		ND		4.3
Ethylene Dibromide		ND		4.3
Dibromomethane		ND		8.7
Dichlorodifluoromethane		ND		8.7
1,1-Dichloroethane		ND		4.3
1,2-Dichloroethane		ND		4.3
1,1-Dichloroethene		ND		4.3
cis-1,2-Dichloroethene		ND		4.3
trans-1,2-Dichloroethene		ND		4.3
1,2-Dichloropropane		ND		4.3
cis-1,3-Dichloropropene		ND		4.3
trans-1,3-Dichloropropene		ND		4.3
Ethylbenzene		ND		4.3
Hexachlorobutadiene		ND		4.3
2-Hexanone		ND		43
Isopropylbenzene		ND		4.3
4-Isopropyltoluene		ND		4.3
Methylene Chloride		ND		8.7
4-Methyl-2-pentanone (MIBK)		ND		43
Naphthalene		ND		8.7

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-38A@1'**

Lab Sample ID: 720-24445-3 Date Sampled: 12/03/2009 1055
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030924.D
Dilution:	1.0			Initial Weight/Volume:	5.78 g
Date Analyzed:	12/03/2009 2150			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.3
Styrene		ND		4.3
1,1,1,2-Tetrachloroethane		ND		4.3
1,1,2,2-Tetrachloroethane		ND		4.3
Tetrachloroethene		ND		4.3
Toluene		ND		4.3
1,2,3-Trichlorobenzene		ND		4.3
1,2,4-Trichlorobenzene		ND		4.3
1,1,1-Trichloroethane		ND		4.3
1,1,2-Trichloroethane		ND		4.3
Trichloroethene		ND		4.3
Trichlorofluoromethane		ND		4.3
1,2,3-Trichloropropane		ND		4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.3
1,2,4-Trimethylbenzene		ND		4.3
1,3,5-Trimethylbenzene		ND		4.3
Vinyl acetate		ND		43
Vinyl chloride		ND		4.3
Xylenes, Total		ND		8.7
2,2-Dichloropropane		ND		4.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	94		52 - 140
1,2-Dichloroethane-d4 (Surr)	119		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-38A@5'**

Lab Sample ID: 720-24445-4 Date Sampled: 12/03/2009 1105
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030925.D
Dilution:	1.0			Initial Weight/Volume:	5.75 g
Date Analyzed:	12/03/2009 2223			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.3
Acetone		ND		43
Benzene		ND		4.3
Dichlorobromomethane		ND		4.3
Bromobenzene		ND		4.3
Chlorobromomethane		ND		17
Bromoform		ND		4.3
Bromomethane		ND		8.7
2-Butanone (MEK)		ND		43
n-Butylbenzene		ND		4.3
sec-Butylbenzene		ND		4.3
tert-Butylbenzene		ND		4.3
Carbon disulfide		ND		4.3
Carbon tetrachloride		ND		4.3
Chlorobenzene		ND		4.3
Chloroethane		ND		8.7
Chloroform		ND		4.3
Chloromethane		ND		8.7
2-Chlorotoluene		ND		4.3
4-Chlorotoluene		ND		4.3
Chlorodibromomethane		ND		4.3
1,2-Dichlorobenzene		ND		4.3
1,3-Dichlorobenzene		ND		4.3
1,4-Dichlorobenzene		ND		4.3
1,3-Dichloropropane		ND		4.3
1,1-Dichloropropene		ND		4.3
1,2-Dibromo-3-Chloropropane		ND		4.3
Ethylene Dibromide		ND		4.3
Dibromomethane		ND		8.7
Dichlorodifluoromethane		ND		8.7
1,1-Dichloroethane		ND		4.3
1,2-Dichloroethane		ND		4.3
1,1-Dichloroethene		ND		4.3
cis-1,2-Dichloroethene		ND		4.3
trans-1,2-Dichloroethene		ND		4.3
1,2-Dichloropropane		ND		4.3
cis-1,3-Dichloropropene		ND		4.3
trans-1,3-Dichloropropene		ND		4.3
Ethylbenzene		ND		4.3
Hexachlorobutadiene		ND		4.3
2-Hexanone		ND		43
Isopropylbenzene		ND		4.3
4-Isopropyltoluene		ND		4.3
Methylene Chloride		ND		8.7
4-Methyl-2-pentanone (MIBK)		ND		43
Naphthalene		ND		8.7

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-38A@5'**

Lab Sample ID: 720-24445-4 Date Sampled: 12/03/2009 1105
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030925.D
Dilution:	1.0			Initial Weight/Volume:	5.75 g
Date Analyzed:	12/03/2009 2223			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.3
Styrene		ND		4.3
1,1,1,2-Tetrachloroethane		ND		4.3
1,1,2,2-Tetrachloroethane		ND		4.3
Tetrachloroethene		ND		4.3
Toluene		ND		4.3
1,2,3-Trichlorobenzene		ND		4.3
1,2,4-Trichlorobenzene		ND		4.3
1,1,1-Trichloroethane		ND		4.3
1,1,2-Trichloroethane		ND		4.3
Trichloroethene		ND		4.3
Trichlorofluoromethane		ND		4.3
1,2,3-Trichloropropane		ND		4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.3
1,2,4-Trimethylbenzene		ND		4.3
1,3,5-Trimethylbenzene		ND		4.3
Vinyl acetate		ND		43
Vinyl chloride		ND		4.3
Xylenes, Total		ND		8.7
2,2-Dichloropropane		ND		4.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	122		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-18A@1'**

Lab Sample ID: 720-24445-5 Date Sampled: 12/03/2009 1109
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040918.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	12/04/2009 1600			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.6
Acetone		75		46
Benzene		ND		4.6
Dichlorobromomethane		ND		4.6
Bromobenzene		ND		4.6
Chlorobromomethane		ND		18
Bromoform		ND	*	4.6
Bromomethane		ND		9.2
2-Butanone (MEK)		ND	*	46
n-Butylbenzene		ND		4.6
sec-Butylbenzene		ND		4.6
tert-Butylbenzene		ND		4.6
Carbon disulfide		ND		4.6
Carbon tetrachloride		ND		4.6
Chlorobenzene		ND		4.6
Chloroethane		ND		9.2
Chloroform		ND		4.6
Chloromethane		ND		9.2
2-Chlorotoluene		ND		4.6
4-Chlorotoluene		ND		4.6
Chlorodibromomethane		ND		4.6
1,2-Dichlorobenzene		ND		4.6
1,3-Dichlorobenzene		ND		4.6
1,4-Dichlorobenzene		ND		4.6
1,3-Dichloropropane		ND	*	4.6
1,1-Dichloropropene		ND		4.6
1,2-Dibromo-3-Chloropropane		ND	*	4.6
Ethylene Dibromide		ND	*	4.6
Dibromomethane		ND	*	9.2
Dichlorodifluoromethane		ND		9.2
1,1-Dichloroethane		ND		4.6
1,2-Dichloroethane		ND	*	4.6
1,1-Dichloroethene		ND		4.6
cis-1,2-Dichloroethene		ND		4.6
trans-1,2-Dichloroethene		ND		4.6
1,2-Dichloropropane		ND		4.6
cis-1,3-Dichloropropene		ND		4.6
trans-1,3-Dichloropropene		ND		4.6
Ethylbenzene		ND		4.6
Hexachlorobutadiene		ND		4.6
2-Hexanone		ND	*	46
Isopropylbenzene		ND		4.6
4-Isopropyltoluene		ND		4.6
Methylene Chloride		ND		9.2
4-Methyl-2-pentanone (MIBK)		ND	*	46
Naphthalene		ND	*	9.2

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-18A@1'**

Lab Sample ID: 720-24445-5 Date Sampled: 12/03/2009 1109
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040918.D
Dilution:	1.0			Initial Weight/Volume:	5.46 g
Date Analyzed:	12/04/2009 1600			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.6
Styrene		ND		4.6
1,1,1,2-Tetrachloroethane		ND		4.6
1,1,2,2-Tetrachloroethane		ND	*	4.6
Tetrachloroethene		ND		4.6
Toluene		ND		4.6
1,2,3-Trichlorobenzene		ND	*	4.6
1,2,4-Trichlorobenzene		ND		4.6
1,1,1-Trichloroethane		ND		4.6
1,1,2-Trichloroethane		ND	*	4.6
Trichloroethene		ND		4.6
Trichlorofluoromethane		ND		4.6
1,2,3-Trichloropropane		ND	*	4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.6
1,2,4-Trimethylbenzene		ND		4.6
1,3,5-Trimethylbenzene		ND		4.6
Vinyl acetate		ND		46
Vinyl chloride		ND		4.6
Xylenes, Total		ND		9.2
2,2-Dichloropropane		ND		4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	78		52 - 140
1,2-Dichloroethane-d4 (Surr)	138		60 - 140
Toluene-d8 (Surr)	91		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-18A@5'**

Lab Sample ID: 720-24445-6 Date Sampled: 12/03/2009 1118
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030927.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Date Analyzed:	12/03/2009 2330			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		4.9
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-18A@5'**

Lab Sample ID: 720-24445-6 Date Sampled: 12/03/2009 1118
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030927.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Date Analyzed:	12/03/2009 2330			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		52 - 140
1,2-Dichloroethane-d4 (Surr)	127		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-40A@1'**

Lab Sample ID: 720-24445-7 Date Sampled: 12/03/2009 1125
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040919.D
Dilution:	1.0			Initial Weight/Volume:	5.90 g
Date Analyzed:	12/04/2009 1633			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.2
Acetone		63		42
Benzene		ND		4.2
Dichlorobromomethane		ND		4.2
Bromobenzene		ND		4.2
Chlorobromomethane		ND		17
Bromoform		ND	*	4.2
Bromomethane		ND		8.5
2-Butanone (MEK)		ND	*	42
n-Butylbenzene		ND		4.2
sec-Butylbenzene		ND		4.2
tert-Butylbenzene		ND		4.2
Carbon disulfide		ND		4.2
Carbon tetrachloride		ND		4.2
Chlorobenzene		ND		4.2
Chloroethane		ND		8.5
Chloroform		ND		4.2
Chloromethane		ND		8.5
2-Chlorotoluene		ND		4.2
4-Chlorotoluene		ND		4.2
Chlorodibromomethane		ND		4.2
1,2-Dichlorobenzene		ND		4.2
1,3-Dichlorobenzene		ND		4.2
1,4-Dichlorobenzene		ND		4.2
1,3-Dichloropropane		ND	*	4.2
1,1-Dichloropropene		ND		4.2
1,2-Dibromo-3-Chloropropane		ND	*	4.2
Ethylene Dibromide		ND	*	4.2
Dibromomethane		ND	*	8.5
Dichlorodifluoromethane		ND		8.5
1,1-Dichloroethane		ND		4.2
1,2-Dichloroethane		ND	*	4.2
1,1-Dichloroethene		ND		4.2
cis-1,2-Dichloroethene		ND		4.2
trans-1,2-Dichloroethene		ND		4.2
1,2-Dichloropropane		ND		4.2
cis-1,3-Dichloropropene		ND		4.2
trans-1,3-Dichloropropene		ND		4.2
Ethylbenzene		ND		4.2
Hexachlorobutadiene		ND		4.2
2-Hexanone		ND	*	42
Isopropylbenzene		ND		4.2
4-Isopropyltoluene		ND		4.2
Methylene Chloride		ND		8.5
4-Methyl-2-pentanone (MIBK)		ND	*	42
Naphthalene		ND	*	8.5

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-40A@1'**

Lab Sample ID: 720-24445-7 Date Sampled: 12/03/2009 1125
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040919.D
Dilution:	1.0			Initial Weight/Volume:	5.90 g
Date Analyzed:	12/04/2009 1633			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.2
Styrene		ND		4.2
1,1,1,2-Tetrachloroethane		ND		4.2
1,1,2,2-Tetrachloroethane		ND	*	4.2
Tetrachloroethene		ND		4.2
Toluene		ND		4.2
1,2,3-Trichlorobenzene		ND	*	4.2
1,2,4-Trichlorobenzene		ND		4.2
1,1,1-Trichloroethane		ND		4.2
1,1,2-Trichloroethane		ND	*	4.2
Trichloroethene		ND		4.2
Trichlorofluoromethane		ND		4.2
1,2,3-Trichloropropane		ND	*	4.2
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.2
1,2,4-Trimethylbenzene		ND		4.2
1,3,5-Trimethylbenzene		ND		4.2
Vinyl acetate		ND		42
Vinyl chloride		ND		4.2
Xylenes, Total		ND		8.5
2,2-Dichloropropane		ND		4.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	83		52 - 140
1,2-Dichloroethane-d4 (Surr)	137		60 - 140
Toluene-d8 (Surr)	93		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-40A@5'**

Lab Sample ID: 720-24445-8 Date Sampled: 12/03/2009 1135
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030929.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	12/04/2009 0036			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.3
Acetone		ND		43
Benzene		ND		4.3
Dichlorobromomethane		ND		4.3
Bromobenzene		ND		4.3
Chlorobromomethane		ND		17
Bromoform		ND		4.3
Bromomethane		ND		8.6
2-Butanone (MEK)		ND		43
n-Butylbenzene		ND		4.3
sec-Butylbenzene		ND		4.3
tert-Butylbenzene		ND		4.3
Carbon disulfide		ND		4.3
Carbon tetrachloride		ND		4.3
Chlorobenzene		ND		4.3
Chloroethane		ND		8.6
Chloroform		ND		4.3
Chloromethane		ND		8.6
2-Chlorotoluene		ND		4.3
4-Chlorotoluene		ND		4.3
Chlorodibromomethane		ND		4.3
1,2-Dichlorobenzene		ND		4.3
1,3-Dichlorobenzene		ND		4.3
1,4-Dichlorobenzene		ND		4.3
1,3-Dichloropropane		ND		4.3
1,1-Dichloropropene		ND		4.3
1,2-Dibromo-3-Chloropropane		ND		4.3
Ethylene Dibromide		ND		4.3
Dibromomethane		ND		8.6
Dichlorodifluoromethane		ND		8.6
1,1-Dichloroethane		ND		4.3
1,2-Dichloroethane		ND		4.3
1,1-Dichloroethene		ND		4.3
cis-1,2-Dichloroethene		ND		4.3
trans-1,2-Dichloroethene		ND		4.3
1,2-Dichloropropane		ND		4.3
cis-1,3-Dichloropropene		ND		4.3
trans-1,3-Dichloropropene		ND		4.3
Ethylbenzene		ND		4.3
Hexachlorobutadiene		ND		4.3
2-Hexanone		ND		43
Isopropylbenzene		ND		4.3
4-Isopropyltoluene		ND		4.3
Methylene Chloride		ND		8.6
4-Methyl-2-pentanone (MIBK)		ND		43
Naphthalene		ND		8.6

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-40A@5'**

Lab Sample ID: 720-24445-8 Date Sampled: 12/03/2009 1135
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030929.D
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Date Analyzed:	12/04/2009 0036			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.3
Styrene		ND		4.3
1,1,1,2-Tetrachloroethane		ND		4.3
1,1,2,2-Tetrachloroethane		ND		4.3
Tetrachloroethene		ND		4.3
Toluene		ND		4.3
1,2,3-Trichlorobenzene		ND		4.3
1,2,4-Trichlorobenzene		ND		4.3
1,1,1-Trichloroethane		ND		4.3
1,1,2-Trichloroethane		ND		4.3
Trichloroethene		ND		4.3
Trichlorofluoromethane		ND		4.3
1,2,3-Trichloropropane		ND		4.3
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.3
1,2,4-Trimethylbenzene		ND		4.3
1,3,5-Trimethylbenzene		ND		4.3
Vinyl acetate		ND		43
Vinyl chloride		ND		4.3
Xylenes, Total		ND		8.6
2,2-Dichloropropane		ND		4.3

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	126		60 - 140
Toluene-d8 (Surr)	94		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-19A@1'**

Lab Sample ID: 720-24445-9 Date Sampled: 12/03/2009 1139
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040918.D
Dilution:	1.0			Initial Weight/Volume:	6.40 g
Date Analyzed:	12/04/2009 1635			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		3.9
Acetone		45		39
Benzene		ND		3.9
Dichlorobromomethane		ND		3.9
Bromobenzene		ND		3.9
Chlorobromomethane		ND		16
Bromoform		ND		3.9
Bromomethane		ND		7.8
2-Butanone (MEK)		ND		39
n-Butylbenzene		ND		3.9
sec-Butylbenzene		ND		3.9
tert-Butylbenzene		ND		3.9
Carbon disulfide		ND		3.9
Carbon tetrachloride		ND		3.9
Chlorobenzene		ND		3.9
Chloroethane		ND		7.8
Chloroform		ND		3.9
Chloromethane		ND		7.8
2-Chlorotoluene		ND		3.9
4-Chlorotoluene		ND		3.9
Chlorodibromomethane		ND		3.9
1,2-Dichlorobenzene		ND		3.9
1,3-Dichlorobenzene		ND		3.9
1,4-Dichlorobenzene		ND		3.9
1,3-Dichloropropane		ND		3.9
1,1-Dichloropropene		ND		3.9
1,2-Dibromo-3-Chloropropane		ND		3.9
Ethylene Dibromide		ND		3.9
Dibromomethane		ND		7.8
Dichlorodifluoromethane		ND		7.8
1,1-Dichloroethane		ND		3.9
1,2-Dichloroethane		ND		3.9
1,1-Dichloroethene		ND		3.9
cis-1,2-Dichloroethene		ND		3.9
trans-1,2-Dichloroethene		ND		3.9
1,2-Dichloropropane		ND		3.9
cis-1,3-Dichloropropene		ND		3.9
trans-1,3-Dichloropropene		ND		3.9
Ethylbenzene		ND		3.9
Hexachlorobutadiene		ND		3.9
2-Hexanone		ND		39
Isopropylbenzene		ND		3.9
4-Isopropyltoluene		ND		3.9
Methylene Chloride		ND		7.8
4-Methyl-2-pentanone (MIBK)		ND	*	39
Naphthalene		ND		7.8

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-19A@1'**

Lab Sample ID: 720-24445-9 Date Sampled: 12/03/2009 1139
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040918.D
Dilution:	1.0			Initial Weight/Volume:	6.40 g
Date Analyzed:	12/04/2009 1635			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		3.9
Styrene		ND		3.9
1,1,1,2-Tetrachloroethane		ND		3.9
1,1,2,2-Tetrachloroethane		ND		3.9
Tetrachloroethene		ND		3.9
Toluene		ND		3.9
1,2,3-Trichlorobenzene		ND		3.9
1,2,4-Trichlorobenzene		ND		3.9
1,1,1-Trichloroethane		ND		3.9
1,1,2-Trichloroethane		ND		3.9
Trichloroethene		ND		3.9
Trichlorofluoromethane		ND		3.9
1,2,3-Trichloropropane		ND		3.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		3.9
1,2,4-Trimethylbenzene		ND		3.9
1,3,5-Trimethylbenzene		ND		3.9
Vinyl acetate		ND		39
Vinyl chloride		ND		3.9
Xylenes, Total		ND		7.8
2,2-Dichloropropane		ND		3.9

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	80		52 - 140
1,2-Dichloroethane-d4 (Surr)	122		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-19A@5'**

Lab Sample ID: 720-24445-10 Date Sampled: 12/03/2009 1151
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030931.D
Dilution:	1.0			Initial Weight/Volume:	4.64 g
Date Analyzed:	12/04/2009 0143			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.4
Acetone		ND		54
Benzene		ND		5.4
Dichlorobromomethane		ND		5.4
Bromobenzene		ND		5.4
Chlorobromomethane		ND		22
Bromoform		ND		5.4
Bromomethane		ND		11
2-Butanone (MEK)		ND		54
n-Butylbenzene		ND		5.4
sec-Butylbenzene		ND		5.4
tert-Butylbenzene		ND		5.4
Carbon disulfide		ND		5.4
Carbon tetrachloride		ND		5.4
Chlorobenzene		ND		5.4
Chloroethane		ND		11
Chloroform		ND		5.4
Chloromethane		ND		11
2-Chlorotoluene		ND		5.4
4-Chlorotoluene		ND		5.4
Chlorodibromomethane		ND		5.4
1,2-Dichlorobenzene		ND		5.4
1,3-Dichlorobenzene		ND		5.4
1,4-Dichlorobenzene		ND		5.4
1,3-Dichloropropane		ND		5.4
1,1-Dichloropropene		ND		5.4
1,2-Dibromo-3-Chloropropane		ND		5.4
Ethylene Dibromide		ND		5.4
Dibromomethane		ND		11
Dichlorodifluoromethane		ND		11
1,1-Dichloroethane		ND		5.4
1,2-Dichloroethane		ND		5.4
1,1-Dichloroethene		ND		5.4
cis-1,2-Dichloroethene		ND		5.4
trans-1,2-Dichloroethene		ND		5.4
1,2-Dichloropropane		ND		5.4
cis-1,3-Dichloropropene		ND		5.4
trans-1,3-Dichloropropene		ND		5.4
Ethylbenzene		ND		5.4
Hexachlorobutadiene		ND		5.4
2-Hexanone		ND		54
Isopropylbenzene		ND		5.4
4-Isopropyltoluene		ND		5.4
Methylene Chloride		ND		11
4-Methyl-2-pentanone (MIBK)		ND		54
Naphthalene		ND		11

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-19A@5'**

Lab Sample ID: 720-24445-10 Date Sampled: 12/03/2009 1151
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62410		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62443		Lab File ID:	12030931.D
Dilution:	1.0			Initial Weight/Volume:	4.64 g
Date Analyzed:	12/04/2009 0143			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.4
Styrene		ND		5.4
1,1,1,2-Tetrachloroethane		ND		5.4
1,1,2,2-Tetrachloroethane		ND		5.4
Tetrachloroethene		ND		5.4
Toluene		ND		5.4
1,2,3-Trichlorobenzene		ND		5.4
1,2,4-Trichlorobenzene		ND		5.4
1,1,1-Trichloroethane		ND		5.4
1,1,2-Trichloroethane		ND		5.4
Trichloroethene		ND		5.4
Trichlorofluoromethane		ND		5.4
1,2,3-Trichloropropane		ND		5.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.4
1,2,4-Trimethylbenzene		ND		5.4
1,3,5-Trimethylbenzene		ND		5.4
Vinyl acetate		ND		54
Vinyl chloride		ND		5.4
Xylenes, Total		ND		11
2,2-Dichloropropane		ND		5.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	128		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-21A@1'**

Lab Sample ID: 720-24445-11 Date Sampled: 12/03/2009 1313
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040914.D
Dilution:	1.0			Initial Weight/Volume:	5.26 g
Date Analyzed:	12/04/2009 1352			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND	*	4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND	*	4.8
Bromomethane		ND		9.5
2-Butanone (MEK)		ND	*	48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.5
Chloroform		ND		4.8
Chloromethane		ND		9.5
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND	*	4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND	*	4.8
Ethylene Dibromide		ND	*	4.8
Dibromomethane		ND	*	9.5
Dichlorodifluoromethane		ND		9.5
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND	*	4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND	*	48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.5
4-Methyl-2-pentanone (MIBK)		ND	*	48
Naphthalene		ND	*	9.5

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-21A@1'**

Lab Sample ID: 720-24445-11 Date Sampled: 12/03/2009 1313
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62423		Instrument ID:	HP4
Preparation:	5035	Prep Batch: 720-62465		Lab File ID:	12040914.D
Dilution:	1.0			Initial Weight/Volume:	5.26 g
Date Analyzed:	12/04/2009 1352			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND	*	4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND	*	4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND	*	4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND	*	4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.5
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	90		52 - 140
1,2-Dichloroethane-d4 (Surr)	131		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-21A@5'**

Lab Sample ID: 720-24445-12 Date Sampled: 12/03/2009 1320
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040913.D
Dilution:	1.0			Initial Weight/Volume:	4.98 g
Date Analyzed:	12/04/2009 1350			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		5.0
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10
4-Methyl-2-pentanone (MIBK)		ND	*	50
Naphthalene		ND		10

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-21A@5'**

Lab Sample ID: 720-24445-12 Date Sampled: 12/03/2009 1320
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040913.D
Dilution:	1.0			Initial Weight/Volume:	4.98 g
Date Analyzed:	12/04/2009 1350			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		52 - 140
1,2-Dichloroethane-d4 (Surr)	123		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-4A@1'**

Lab Sample ID: 720-24445-13 Date Sampled: 12/03/2009 1330
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040914.D
Dilution:	1.0			Initial Weight/Volume:	5.71 g
Date Analyzed:	12/04/2009 1423			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.4
Acetone		ND		44
Benzene		ND		4.4
Dichlorobromomethane		ND		4.4
Bromobenzene		ND		4.4
Chlorobromomethane		ND		18
Bromoform		ND		4.4
Bromomethane		ND		8.8
2-Butanone (MEK)		ND		44
n-Butylbenzene		ND		4.4
sec-Butylbenzene		ND		4.4
tert-Butylbenzene		ND		4.4
Carbon disulfide		ND		4.4
Carbon tetrachloride		ND		4.4
Chlorobenzene		ND		4.4
Chloroethane		ND		8.8
Chloroform		ND		4.4
Chloromethane		ND		8.8
2-Chlorotoluene		ND		4.4
4-Chlorotoluene		ND		4.4
Chlorodibromomethane		ND		4.4
1,2-Dichlorobenzene		ND		4.4
1,3-Dichlorobenzene		ND		4.4
1,4-Dichlorobenzene		ND		4.4
1,3-Dichloropropane		ND		4.4
1,1-Dichloropropene		ND		4.4
1,2-Dibromo-3-Chloropropane		ND		4.4
Ethylene Dibromide		ND		4.4
Dibromomethane		ND		8.8
Dichlorodifluoromethane		ND		8.8
1,1-Dichloroethane		ND		4.4
1,2-Dichloroethane		ND		4.4
1,1-Dichloroethene		ND		4.4
cis-1,2-Dichloroethene		ND		4.4
trans-1,2-Dichloroethene		ND		4.4
1,2-Dichloropropane		ND		4.4
cis-1,3-Dichloropropene		ND		4.4
trans-1,3-Dichloropropene		ND		4.4
Ethylbenzene		ND		4.4
Hexachlorobutadiene		ND		4.4
2-Hexanone		ND		44
Isopropylbenzene		ND		4.4
4-Isopropyltoluene		ND		4.4
Methylene Chloride		ND		8.8
4-Methyl-2-pentanone (MIBK)		ND	*	44
Naphthalene		ND		8.8

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-4A@1'**

Lab Sample ID: 720-24445-13 Date Sampled: 12/03/2009 1330
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040914.D
Dilution:	1.0			Initial Weight/Volume:	5.71 g
Date Analyzed:	12/04/2009 1423			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.4
Styrene		ND		4.4
1,1,1,2-Tetrachloroethane		ND		4.4
1,1,2,2-Tetrachloroethane		ND		4.4
Tetrachloroethene		ND		4.4
Toluene		ND		4.4
1,2,3-Trichlorobenzene		ND		4.4
1,2,4-Trichlorobenzene		ND		4.4
1,1,1-Trichloroethane		ND		4.4
1,1,2-Trichloroethane		ND		4.4
Trichloroethene		ND		4.4
Trichlorofluoromethane		ND		4.4
1,2,3-Trichloropropane		ND		4.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.4
1,2,4-Trimethylbenzene		ND		4.4
1,3,5-Trimethylbenzene		ND		4.4
Vinyl acetate		ND		44
Vinyl chloride		ND		4.4
Xylenes, Total		ND		8.8
2,2-Dichloropropane		ND		4.4

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	85		52 - 140
1,2-Dichloroethane-d4 (Surr)	121		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-4A@5'**

Lab Sample ID: 720-24445-14 Date Sampled: 12/03/2009 1335
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040915.D
Dilution:	1.0			Initial Weight/Volume:	5.61 g
Date Analyzed:	12/04/2009 1456			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.5
Acetone		ND		45
Benzene		ND		4.5
Dichlorobromomethane		ND		4.5
Bromobenzene		ND		4.5
Chlorobromomethane		ND		18
Bromoform		ND		4.5
Bromomethane		ND		8.9
2-Butanone (MEK)		ND		45
n-Butylbenzene		ND		4.5
sec-Butylbenzene		ND		4.5
tert-Butylbenzene		ND		4.5
Carbon disulfide		ND		4.5
Carbon tetrachloride		ND		4.5
Chlorobenzene		ND		4.5
Chloroethane		ND		8.9
Chloroform		ND		4.5
Chloromethane		ND		8.9
2-Chlorotoluene		ND		4.5
4-Chlorotoluene		ND		4.5
Chlorodibromomethane		ND		4.5
1,2-Dichlorobenzene		ND		4.5
1,3-Dichlorobenzene		ND		4.5
1,4-Dichlorobenzene		ND		4.5
1,3-Dichloropropane		ND		4.5
1,1-Dichloropropene		ND		4.5
1,2-Dibromo-3-Chloropropane		ND		4.5
Ethylene Dibromide		ND		4.5
Dibromomethane		ND		8.9
Dichlorodifluoromethane		ND		8.9
1,1-Dichloroethane		ND		4.5
1,2-Dichloroethane		ND		4.5
1,1-Dichloroethene		ND		4.5
cis-1,2-Dichloroethene		ND		4.5
trans-1,2-Dichloroethene		ND		4.5
1,2-Dichloropropane		ND		4.5
cis-1,3-Dichloropropene		ND		4.5
trans-1,3-Dichloropropene		ND		4.5
Ethylbenzene		ND		4.5
Hexachlorobutadiene		ND		4.5
2-Hexanone		ND		45
Isopropylbenzene		ND		4.5
4-Isopropyltoluene		ND		4.5
Methylene Chloride		ND		8.9
4-Methyl-2-pentanone (MIBK)		ND	*	45
Naphthalene		ND		8.9

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB-4A@5'**

Lab Sample ID: 720-24445-14 Date Sampled: 12/03/2009 1335
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040915.D
Dilution:	1.0			Initial Weight/Volume:	5.61 g
Date Analyzed:	12/04/2009 1456			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.5
Styrene		ND		4.5
1,1,1,2-Tetrachloroethane		ND		4.5
1,1,2,2-Tetrachloroethane		ND		4.5
Tetrachloroethene		ND		4.5
Toluene		ND		4.5
1,2,3-Trichlorobenzene		ND		4.5
1,2,4-Trichlorobenzene		ND		4.5
1,1,1-Trichloroethane		ND		4.5
1,1,2-Trichloroethane		ND		4.5
Trichloroethene		ND		4.5
Trichlorofluoromethane		ND		4.5
1,2,3-Trichloropropane		ND		4.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.5
1,2,4-Trimethylbenzene		ND		4.5
1,3,5-Trimethylbenzene		ND		4.5
Vinyl acetate		ND		45
Vinyl chloride		ND		4.5
Xylenes, Total		ND		8.9
2,2-Dichloropropane		ND		4.5

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		52 - 140
1,2-Dichloroethane-d4 (Surr)	119		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB68A@1'**

Lab Sample ID: 720-24445-15 Date Sampled: 12/03/2009 1358
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040916.D
Dilution:	1.0			Initial Weight/Volume:	4.36 g
Date Analyzed:	12/04/2009 1529			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.7
Acetone		ND		57
Benzene		ND		5.7
Dichlorobromomethane		ND		5.7
Bromobenzene		ND		5.7
Chlorobromomethane		ND		23
Bromoform		ND		5.7
Bromomethane		ND		11
2-Butanone (MEK)		ND		57
n-Butylbenzene		ND		5.7
sec-Butylbenzene		ND		5.7
tert-Butylbenzene		ND		5.7
Carbon disulfide		ND		5.7
Carbon tetrachloride		ND		5.7
Chlorobenzene		ND		5.7
Chloroethane		ND		11
Chloroform		ND		5.7
Chloromethane		ND		11
2-Chlorotoluene		ND		5.7
4-Chlorotoluene		ND		5.7
Chlorodibromomethane		ND		5.7
1,2-Dichlorobenzene		ND		5.7
1,3-Dichlorobenzene		ND		5.7
1,4-Dichlorobenzene		ND		5.7
1,3-Dichloropropane		ND		5.7
1,1-Dichloropropene		ND		5.7
1,2-Dibromo-3-Chloropropane		ND		5.7
Ethylene Dibromide		ND		5.7
Dibromomethane		ND		11
Dichlorodifluoromethane		ND		11
1,1-Dichloroethane		ND		5.7
1,2-Dichloroethane		ND		5.7
1,1-Dichloroethene		ND		5.7
cis-1,2-Dichloroethene		ND		5.7
trans-1,2-Dichloroethene		ND		5.7
1,2-Dichloropropane		ND		5.7
cis-1,3-Dichloropropene		ND		5.7
trans-1,3-Dichloropropene		ND		5.7
Ethylbenzene		ND		5.7
Hexachlorobutadiene		ND		5.7
2-Hexanone		ND		57
Isopropylbenzene		ND		5.7
4-Isopropyltoluene		ND		5.7
Methylene Chloride		ND		11
4-Methyl-2-pentanone (MIBK)		ND	*	57
Naphthalene		ND		11

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB68A@1'**

Lab Sample ID: 720-24445-15 Date Sampled: 12/03/2009 1358
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040916.D
Dilution:	1.0			Initial Weight/Volume:	4.36 g
Date Analyzed:	12/04/2009 1529			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		5.7
Styrene		ND		5.7
1,1,1,2-Tetrachloroethane		ND		5.7
1,1,2,2-Tetrachloroethane		ND		5.7
Tetrachloroethene		ND		5.7
Toluene		ND		5.7
1,2,3-Trichlorobenzene		ND		5.7
1,2,4-Trichlorobenzene		ND		5.7
1,1,1-Trichloroethane		ND		5.7
1,1,2-Trichloroethane		ND		5.7
Trichloroethene		ND		5.7
Trichlorofluoromethane		ND		5.7
1,2,3-Trichloropropane		ND		5.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.7
1,2,4-Trimethylbenzene		ND		5.7
1,3,5-Trimethylbenzene		ND		5.7
Vinyl acetate		ND		57
Vinyl chloride		ND		5.7
Xylenes, Total		ND		11
2,2-Dichloropropane		ND		5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		52 - 140
1,2-Dichloroethane-d4 (Surr)	125		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB68A@5'**

Lab Sample ID: 720-24445-16 Date Sampled: 12/03/2009 1401
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040917.D
Dilution:	1.0			Initial Weight/Volume:	5.45 g
Date Analyzed:	12/04/2009 1602			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.6
Acetone		ND		46
Benzene		ND		4.6
Dichlorobromomethane		ND		4.6
Bromobenzene		ND		4.6
Chlorobromomethane		ND		18
Bromoform		ND		4.6
Bromomethane		ND		9.2
2-Butanone (MEK)		ND		46
n-Butylbenzene		ND		4.6
sec-Butylbenzene		ND		4.6
tert-Butylbenzene		ND		4.6
Carbon disulfide		ND		4.6
Carbon tetrachloride		ND		4.6
Chlorobenzene		ND		4.6
Chloroethane		ND		9.2
Chloroform		ND		4.6
Chloromethane		ND		9.2
2-Chlorotoluene		ND		4.6
4-Chlorotoluene		ND		4.6
Chlorodibromomethane		ND		4.6
1,2-Dichlorobenzene		ND		4.6
1,3-Dichlorobenzene		ND		4.6
1,4-Dichlorobenzene		ND		4.6
1,3-Dichloropropane		ND		4.6
1,1-Dichloropropene		ND		4.6
1,2-Dibromo-3-Chloropropane		ND		4.6
Ethylene Dibromide		ND		4.6
Dibromomethane		ND		9.2
Dichlorodifluoromethane		ND		9.2
1,1-Dichloroethane		ND		4.6
1,2-Dichloroethane		ND		4.6
1,1-Dichloroethene		ND		4.6
cis-1,2-Dichloroethene		ND		4.6
trans-1,2-Dichloroethene		ND		4.6
1,2-Dichloropropane		ND		4.6
cis-1,3-Dichloropropene		ND		4.6
trans-1,3-Dichloropropene		ND		4.6
Ethylbenzene		ND		4.6
Hexachlorobutadiene		ND		4.6
2-Hexanone		ND		46
Isopropylbenzene		ND		4.6
4-Isopropyltoluene		ND		4.6
Methylene Chloride		ND		9.2
4-Methyl-2-pentanone (MIBK)		ND	*	46
Naphthalene		ND		9.2

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Client Sample ID: **SB68A@5'**

Lab Sample ID: 720-24445-16 Date Sampled: 12/03/2009 1401
Client Matrix: Solid Date Received: 12/03/2009 1757

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-62427		Instrument ID:	HP9
Preparation:	5035	Prep Batch: 720-62504		Lab File ID:	12040917.D
Dilution:	1.0			Initial Weight/Volume:	5.45 g
Date Analyzed:	12/04/2009 1602			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Propylbenzene		ND		4.6
Styrene		ND		4.6
1,1,1,2-Tetrachloroethane		ND		4.6
1,1,2,2-Tetrachloroethane		ND		4.6
Tetrachloroethene		ND		4.6
Toluene		ND		4.6
1,2,3-Trichlorobenzene		ND		4.6
1,2,4-Trichlorobenzene		ND		4.6
1,1,1-Trichloroethane		ND		4.6
1,1,2-Trichloroethane		ND		4.6
Trichloroethene		ND		4.6
Trichlorofluoromethane		ND		4.6
1,2,3-Trichloropropane		ND		4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.6
1,2,4-Trimethylbenzene		ND		4.6
1,3,5-Trimethylbenzene		ND		4.6
Vinyl acetate		ND		46
Vinyl chloride		ND		4.6
Xylenes, Total		ND		9.2
2,2-Dichloropropane		ND		4.6

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	93		52 - 140
1,2-Dichloroethane-d4 (Surr)	121		60 - 140
Toluene-d8 (Surr)	100		58 - 140

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	X	Surrogate exceeds the control limits

Client: ARCADIS U.S., Inc. Job Number: 720-24445-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-62410					
LCS 720-62443/1-A	Lab Control Sample	T	Solid	8260B	720-62443
LCSD 720-62443/2-A	Lab Control Sample Duplicate	T	Solid	8260B	720-62443
MB 720-62443/5-A	Method Blank	T	Solid	8260B	720-62443
720-24445-3	SB-38A@1'	T	Solid	8260B	720-62443
720-24445-4	SB-38A@5'	T	Solid	8260B	720-62443
720-24445-6	SB-18A@5'	T	Solid	8260B	720-62443
720-24445-8	SB-40A@5'	T	Solid	8260B	720-62443
720-24445-10	SB-19A@5'	T	Solid	8260B	720-62443
Analysis Batch:720-62423					
LCS 720-62465/2-A	Lab Control Sample	T	Solid	8260B	720-62465
LCSD 720-62465/3-A	Lab Control Sample Duplicate	T	Solid	8260B	720-62465
MB 720-62465/1-A	Method Blank	T	Solid	8260B	720-62465
720-24445-1	SB-34A@1'	T	Solid	8260B	720-62465
720-24445-2	SB-34A@5'	T	Solid	8260B	720-62465
720-24445-5	SB-18A@1'	T	Solid	8260B	720-62465
720-24445-7	SB-40A@1'	T	Solid	8260B	720-62465
720-24445-11	SB-21A@1'	T	Solid	8260B	720-62465
Analysis Batch:720-62427					
LCS 720-62504/2-A	Lab Control Sample	T	Solid	8260B	720-62504
LCSD 720-62504/3-A	Lab Control Sample Duplicate	T	Solid	8260B	720-62504
MB 720-62504/1-A	Method Blank	T	Solid	8260B	720-62504
720-24445-9	SB-19A@1'	T	Solid	8260B	720-62504
720-24445-12	SB-21A@5'	T	Solid	8260B	720-62504
720-24445-13	SB-4A@1'	T	Solid	8260B	720-62504
720-24445-14	SB-4A@5'	T	Solid	8260B	720-62504
720-24445-15	SB68A@1'	T	Solid	8260B	720-62504
720-24445-16	SB68A@5'	T	Solid	8260B	720-62504
Prep Batch: 720-62443					
LCS 720-62443/1-A	Lab Control Sample	T	Solid	5035	
LCSD 720-62443/2-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 720-62443/5-A	Method Blank	T	Solid	5035	
720-24445-3	SB-38A@1'	T	Solid	5035	
720-24445-4	SB-38A@5'	T	Solid	5035	
720-24445-6	SB-18A@5'	T	Solid	5035	
720-24445-8	SB-40A@5'	T	Solid	5035	
720-24445-10	SB-19A@5'	T	Solid	5035	

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-62465					
LCS 720-62465/2-A	Lab Control Sample	T	Solid	5035	
LCSD 720-62465/3-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 720-62465/1-A	Method Blank	T	Solid	5035	
720-24445-1	SB-34A@1'	T	Solid	5035	
720-24445-2	SB-34A@5'	T	Solid	5035	
720-24445-5	SB-18A@1'	T	Solid	5035	
720-24445-7	SB-40A@1'	T	Solid	5035	
720-24445-11	SB-21A@1'	T	Solid	5035	
Prep Batch: 720-62504					
LCS 720-62504/2-A	Lab Control Sample	T	Solid	5035	
LCSD 720-62504/3-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 720-62504/1-A	Method Blank	T	Solid	5035	
720-24445-9	SB-19A@1'	T	Solid	5035	
720-24445-12	SB-21A@5'	T	Solid	5035	
720-24445-13	SB-4A@1'	T	Solid	5035	
720-24445-14	SB-4A@5'	T	Solid	5035	
720-24445-15	SB68A@1'	T	Solid	5035	
720-24445-16	SB68A@5'	T	Solid	5035	

Report Basis

T = Total

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Method Blank - Batch: 720-62443

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 720-62443/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 2117
Date Prepared: 12/03/2009 1900

Analysis Batch: 720-62410
Prep Batch: 720-62443
Units: ug/Kg

Instrument ID: Chemtation 3
Lab File ID: 12030923.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		5.0
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Method Blank - Batch: 720-62443

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 720-62443/5-A	Analysis Batch:	720-62410	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62443	Lab File ID:	12030923.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 2117			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	52 - 140
1,2-Dichloroethane-d4 (Surr)	112	60 - 140
Toluene-d8 (Surr)	101	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62443

Method: 8260B
Preparation: 5035

LCS Lab Sample ID: LCS 720-62443/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 1903
Date Prepared: 12/03/2009 1900

Analysis Batch: 720-62410
Prep Batch: 720-62443
Units: ug/Kg

Instrument ID: Chemtation 3
Lab File ID: 12030919.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-62443/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2009 1937
Date Prepared: 12/03/2009 1900

Analysis Batch: 720-62410
Prep Batch: 720-62443
Units: ug/Kg

Instrument ID: Chemtation 3
Lab File ID: 12030920.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	108	110	69 - 125	2	20		
Acetone	94	104	37 - 150	10	20		
Benzene	100	103	72 - 120	3	20		
Dichlorobromomethane	114	118	64 - 135	4	20		
Bromobenzene	99	104	77 - 121	5	20		
Chlorobromomethane	114	115	65 - 128	1	20		
Bromoform	115	117	58 - 132	2	20		
Bromomethane	101	102	56 - 124	1	20		
2-Butanone (MEK)	118	119	41 - 150	1	20		
n-Butylbenzene	94	95	60 - 145	1	20		
sec-Butylbenzene	93	95	64 - 137	2	20		
tert-Butylbenzene	92	95	63 - 134	3	20		
Carbon disulfide	97	94	10 - 150	3	20		
Carbon tetrachloride	111	115	54 - 141	3	20		
Chlorobenzene	108	109	70 - 121	1	20		
Chloroethane	89	89	61 - 125	0	20		
Chloroform	110	112	67 - 125	2	20		
Chloromethane	79	83	50 - 131	4	20		
2-Chlorotoluene	92	95	75 - 131	4	20		
4-Chlorotoluene	90	94	76 - 129	4	20		
Chlorodibromomethane	121	124	60 - 140	2	20		
1,2-Dichlorobenzene	103	105	73 - 126	3	20		
1,3-Dichlorobenzene	103	106	73 - 128	3	20		
1,4-Dichlorobenzene	103	104	72 - 122	1	20		
1,3-Dichloropropane	114	116	74 - 127	2	20		
1,1-Dichloropropene	105	108	67 - 128	3	20		
1,2-Dibromo-3-Chloropropane	119	124	57 - 130	4	20		
Ethylene Dibromide	118	120	66 - 135	2	20		
Dibromomethane	115	119	65 - 131	3	20		
Dichlorodifluoromethane	83	79	38 - 120	4	20		
1,1-Dichloroethane	102	105	67 - 126	2	20		
1,2-Dichloroethane	113	115	73 - 122	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62443

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62443/1-A	Analysis Batch:	720-62410	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62443	Lab File ID:	12030919.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1903			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

LCSD Lab Sample ID:	LCSD 720-62443/2-A	Analysis Batch:	720-62410	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62443	Lab File ID:	12030920.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1937			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	101	101	64 - 129	0	20		
cis-1,2-Dichloroethene	108	111	68 - 131	2	20		
trans-1,2-Dichloroethene	100	102	70 - 130	2	20		
1,2-Dichloropropane	102	102	65 - 133	0	20		
cis-1,3-Dichloropropene	111	114	46 - 139	3	20		
trans-1,3-Dichloropropene	113	113	55 - 131	0	20		
Ethylbenzene	103	105	65 - 130	2	20		
Hexachlorobutadiene	98	95	58 - 132	3	20		
2-Hexanone	133	134	44 - 150	1	20		
Isopropylbenzene	89	90	65 - 130	1	20		
4-Isopropyltoluene	98	101	69 - 134	4	20		
Methylene Chloride	96	99	63 - 129	4	20		
4-Methyl-2-pentanone (MIBK)	137	140	51 - 140	2	20		
Naphthalene	128	130	45 - 146	2	20		
N-Propylbenzene	88	91	71 - 130	3	20		
Styrene	106	108	58 - 135	2	20		
1,1,1,2-Tetrachloroethane	115	118	64 - 133	3	20		
1,1,2,2-Tetrachloroethane	107	111	75 - 131	3	20		
Tetrachloroethene	113	115	67 - 128	1	20		
Toluene	97	100	72 - 120	3	20		
1,2,3-Trichlorobenzene	117	115	58 - 138	1	20		
1,2,4-Trichlorobenzene	106	107	49 - 144	0	20		
1,1,1-Trichloroethane	112	114	57 - 133	2	20		
1,1,2-Trichloroethane	116	120	68 - 132	3	20		
Trichloroethene	116	119	66 - 125	2	20		
Trichlorofluoromethane	96	98	61 - 127	2	20		
1,2,3-Trichloropropane	109	112	62 - 150	3	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	112	114	52 - 126	2	20		
1,2,4-Trimethylbenzene	96	100	64 - 140	4	20		
1,3,5-Trimethylbenzene	91	94	67 - 134	3	20		
Vinyl acetate	135	134	52 - 150	0	20		
Vinyl chloride	83	84	62 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62443

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62443/1-A	Analysis Batch:	720-62410	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62443	Lab File ID:	12030919.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1903			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

LCSD Lab Sample ID:	LCSD 720-62443/2-A	Analysis Batch:	720-62410	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62443	Lab File ID:	12030920.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/03/2009 1937			Final Weight/Volume:	10 mL
Date Prepared:	12/03/2009 1900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
m-Xylene & p-Xylene	106	108	70 - 130	2	20		
o-Xylene	107	108	68 - 130	2	20		
2,2-Dichloropropane	123	124	63 - 130	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	102	101	52 - 140
1,2-Dichloroethane-d4 (Surr)	109	109	60 - 140
Toluene-d8 (Surr)	101	102	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Method Blank - Batch: 720-62465

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 720-62465/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2009 1004
Date Prepared: 12/04/2009 0800

Analysis Batch: 720-62423
Prep Batch: 720-62465
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 12040907.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		5.0
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Method Blank - Batch: 720-62465

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 720-62465/1-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040907.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1004			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	95	52 - 140
1,2-Dichloroethane-d4 (Surr)	124	60 - 140
Toluene-d8 (Surr)	96	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62465

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62465/2-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040908.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1038			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

LCSD Lab Sample ID:	LCSD 720-62465/3-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040909.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1111			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	133	138	69 - 125	3	20	*	*
Acetone	146	150	37 - 150	3	20		
Benzene	108	109	72 - 120	1	20		
Dichlorobromomethane	127	128	64 - 135	0	20		
Bromobenzene	110	110	77 - 121	0	20		
Chlorobromomethane	119	118	65 - 128	0	20		
Bromoform	135	136	58 - 132	1	20	*	*
Bromomethane	91	92	56 - 124	1	20		
2-Butanone (MEK)	149	156	41 - 150	5	20		*
n-Butylbenzene	114	112	60 - 145	2	20		
sec-Butylbenzene	111	109	64 - 137	1	20		
tert-Butylbenzene	107	106	63 - 134	1	20		
Carbon disulfide	41	40	10 - 150	1	20		
Carbon tetrachloride	103	103	54 - 141	0	20		
Chlorobenzene	109	109	70 - 121	1	20		
Chloroethane	84	84	61 - 125	0	20		
Chloroform	103	102	67 - 125	1	20		
Chloromethane	73	73	50 - 131	1	20		
2-Chlorotoluene	111	111	75 - 131	1	20		
4-Chlorotoluene	110	109	76 - 129	1	20		
Chlorodibromomethane	112	115	60 - 140	2	20		
1,2-Dichlorobenzene	117	116	73 - 126	0	20		
1,3-Dichlorobenzene	112	110	73 - 128	1	20		
1,4-Dichlorobenzene	111	109	72 - 122	2	20		
1,3-Dichloropropane	141	141	74 - 127	0	20	*	*
1,1-Dichloropropene	104	104	67 - 128	0	20		
1,2-Dibromo-3-Chloropropane	153	159	57 - 130	3	20	*	*
Ethylene Dibromide	146	150	66 - 135	2	20	*	*
Dibromomethane	131	134	65 - 131	2	20		*
Dichlorodifluoromethane	68	68	38 - 120	1	20		
1,1-Dichloroethane	107	106	67 - 126	0	20		
1,2-Dichloroethane	132	132	73 - 122	0	20	*	*

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62465

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62465/2-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040908.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1038			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

LCSD Lab Sample ID:	LCSD 720-62465/3-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040909.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1111			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	98	97	64 - 129	1	20		
cis-1,2-Dichloroethene	115	114	68 - 131	1	20		
trans-1,2-Dichloroethene	99	98	70 - 130	1	20		
1,2-Dichloropropane	116	116	65 - 133	0	20		
cis-1,3-Dichloropropene	120	123	46 - 139	2	20		
trans-1,3-Dichloropropene	121	123	55 - 131	1	20		
Ethylbenzene	107	105	65 - 130	2	20		
Hexachlorobutadiene	99	96	58 - 132	3	20		
2-Hexanone	162	170	44 - 150	5	20	*	*
Isopropylbenzene	97	95	65 - 130	2	20		
4-Isopropyltoluene	97	95	69 - 134	1	20		
Methylene Chloride	99	101	63 - 129	2	20		
4-Methyl-2-pentanone (MIBK)	169	172	51 - 140	2	20	*	*
Naphthalene	166	168	45 - 146	2	20	*	*
N-Propylbenzene	105	103	71 - 130	2	20		
Styrene	111	109	58 - 135	2	20		
1,1,1,2-Tetrachloroethane	116	116	64 - 133	0	20		
1,1,2,2-Tetrachloroethane	148	150	75 - 131	2	20	*	*
Tetrachloroethene	97	96	67 - 128	1	20		
Toluene	98	97	72 - 120	1	20		
1,2,3-Trichlorobenzene	140	136	58 - 138	3	20	*	
1,2,4-Trichlorobenzene	120	117	49 - 144	3	20		
1,1,1-Trichloroethane	100	101	57 - 133	0	20		
1,1,2-Trichloroethane	142	144	68 - 132	1	20	*	*
Trichloroethene	105	103	66 - 125	2	20		
Trichlorofluoromethane	89	89	61 - 127	0	20		
1,2,3-Trichloropropane	153	158	62 - 150	3	20	*	*
1,1,2-Trichloro-1,2,2-trifluoroethane	98	97	52 - 126	1	20		
1,2,4-Trimethylbenzene	115	114	64 - 140	1	20		
1,3,5-Trimethylbenzene	108	107	67 - 134	1	20		
Vinyl acetate	112	109	52 - 150	3	20		
Vinyl chloride	71	70	62 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62465

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62465/2-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040908.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1038			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

LCSD Lab Sample ID:	LCSD 720-62465/3-A	Analysis Batch:	720-62423	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-62465	Lab File ID:	12040909.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5.00 g
Date Analyzed:	12/04/2009 1111			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0800				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
m-Xylene & p-Xylene	109	108	70 - 130	1	20		
o-Xylene	113	111	68 - 130	2	20		
2,2-Dichloropropane	100	98	63 - 130	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	106	106	52 - 140
1,2-Dichloroethane-d4 (Surr)	121	124	60 - 140
Toluene-d8 (Surr)	100	101	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Method Blank - Batch: 720-62504

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 720-62504/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2009 1210
Date Prepared: 12/04/2009 0900

Analysis Batch: 720-62427
Prep Batch: 720-62504
Units: ug/Kg

Instrument ID: Chemtation 3
Lab File ID: 12040910.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		5.0
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Method Blank - Batch: 720-62504

Method: 8260B
Preparation: 5035

Lab Sample ID: MB 720-62504/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/04/2009 1210
Date Prepared: 12/04/2009 0900

Analysis Batch: 720-62427
Prep Batch: 720-62504
Units: ug/Kg

Instrument ID: Chemtation 3
Lab File ID: 12040910.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
m-Xylene & p-Xylene	ND		5.0
o-Xylene	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	52 - 140
1,2-Dichloroethane-d4 (Surr)	119	60 - 140
Toluene-d8 (Surr)	102	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62504

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62504/2-A	Analysis Batch:	720-62427	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62504	Lab File ID:	12040911.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/04/2009 1243			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

LCSD Lab Sample ID:	LCSD 720-62504/3-A	Analysis Batch:	720-62427	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62504	Lab File ID:	12040912.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/04/2009 1316			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	108	110	69 - 125	1	20		
Acetone	97	96	37 - 150	1	20		
Benzene	99	100	72 - 120	1	20		
Dichlorobromomethane	121	121	64 - 135	0	20		
Bromobenzene	97	101	77 - 121	4	20		
Chlorobromomethane	112	114	65 - 128	2	20		
Bromoform	120	120	58 - 132	0	20		
Bromomethane	98	99	56 - 124	1	20		
2-Butanone (MEK)	120	123	41 - 150	3	20		
n-Butylbenzene	95	97	60 - 145	2	20		
sec-Butylbenzene	93	95	64 - 137	3	20		
tert-Butylbenzene	92	95	63 - 134	3	20		
Carbon disulfide	90	89	10 - 150	1	20		
Carbon tetrachloride	118	118	54 - 141	1	20		
Chlorobenzene	105	106	70 - 121	1	20		
Chloroethane	83	84	61 - 125	1	20		
Chloroform	112	115	67 - 125	3	20		
Chloromethane	77	80	50 - 131	3	20		
2-Chlorotoluene	90	94	75 - 131	4	20		
4-Chlorotoluene	89	91	76 - 129	2	20		
Chlorodibromomethane	126	130	60 - 140	3	20		
1,2-Dichlorobenzene	102	106	73 - 126	4	20		
1,3-Dichlorobenzene	100	104	73 - 128	4	20		
1,4-Dichlorobenzene	101	103	72 - 122	2	20		
1,3-Dichloropropane	118	117	74 - 127	0	20		
1,1-Dichloropropene	106	106	67 - 128	1	20		
1,2-Dibromo-3-Chloropropane	118	126	57 - 130	6	20		
Ethylene Dibromide	122	124	66 - 135	1	20		
Dibromomethane	118	121	65 - 131	3	20		
Dichlorodifluoromethane	88	89	38 - 120	0	20		
1,1-Dichloroethane	103	104	67 - 126	1	20		
1,2-Dichloroethane	119	120	73 - 122	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62504

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62504/2-A	Analysis Batch:	720-62427	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62504	Lab File ID:	12040911.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/04/2009 1243			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

LCSD Lab Sample ID:	LCSD 720-62504/3-A	Analysis Batch:	720-62427	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62504	Lab File ID:	12040912.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/04/2009 1316			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	99	101	64 - 129	2	20		
cis-1,2-Dichloroethene	109	110	68 - 131	1	20		
trans-1,2-Dichloroethene	98	99	70 - 130	1	20		
1,2-Dichloropropane	99	101	65 - 133	2	20		
cis-1,3-Dichloropropene	111	111	46 - 139	1	20		
trans-1,3-Dichloropropene	113	116	55 - 131	3	20		
Ethylbenzene	101	102	65 - 130	1	20		
Hexachlorobutadiene	101	106	58 - 132	5	20		
2-Hexanone	141	145	44 - 150	3	20		
Isopropylbenzene	89	89	65 - 130	0	20		
4-Isopropyltoluene	98	99	69 - 134	2	20		
Methylene Chloride	97	100	63 - 129	3	20		
4-Methyl-2-pentanone (MIBK)	142	144	51 - 140	1	20	*	*
Naphthalene	126	132	45 - 146	5	20		
N-Propylbenzene	86	90	71 - 130	4	20		
Styrene	101	103	58 - 135	2	20		
1,1,1,2-Tetrachloroethane	116	118	64 - 133	2	20		
1,1,2,2-Tetrachloroethane	104	109	75 - 131	4	20		
Tetrachloroethene	116	114	67 - 128	2	20		
Toluene	93	94	72 - 120	1	20		
1,2,3-Trichlorobenzene	116	122	58 - 138	5	20		
1,2,4-Trichlorobenzene	107	111	49 - 144	4	20		
1,1,1-Trichloroethane	116	118	57 - 133	1	20		
1,1,2-Trichloroethane	117	121	68 - 132	4	20		
Trichloroethene	117	115	66 - 125	1	20		
Trichlorofluoromethane	102	100	61 - 127	2	20		
1,2,3-Trichloropropane	108	112	62 - 150	4	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	111	110	52 - 126	0	20		
1,2,4-Trimethylbenzene	95	97	64 - 140	2	20		
1,3,5-Trimethylbenzene	91	93	67 - 134	2	20		
Vinyl acetate	88	90	52 - 150	2	20		
Vinyl chloride	85	88	62 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-62504

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 720-62504/2-A	Analysis Batch:	720-62427	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62504	Lab File ID:	12040911.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/04/2009 1243			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

LCSD Lab Sample ID:	LCSD 720-62504/3-A	Analysis Batch:	720-62427	Instrument ID:	Chemtation 3
Client Matrix:	Solid	Prep Batch:	720-62504	Lab File ID:	12040912.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	5 g
Date Analyzed:	12/04/2009 1316			Final Weight/Volume:	10 mL
Date Prepared:	12/04/2009 0900				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
m-Xylene & p-Xylene	103	104	70 - 130	1	20		
o-Xylene	105	106	68 - 130	1	20		
2,2-Dichloropropane	113	114	63 - 130	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	102	52 - 140
1,2-Dichloroethane-d4 (Surr)	118	119	60 - 140
Toluene-d8 (Surr)	103	103	58 - 140

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-24445

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 120897

Date 12/03/09 Page 2 of 2

Report To

Attn: Kathy Brandt
Company: Arcadis
Address: 1900 Powell St, Emeryville
Phone: Email:
Bill To: Sampled By: A. Valdivia
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	TPH EPA - ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ 608 ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Low Level Metals by EPA 200.8/6020 (ICP-MS): ___	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	Low Level VOCs	Rush 24-hr			Number of Containers
1 SB-21A@1'	12/03/09	13:13	S																		X	X			3
2 SB-21A@5'	↓	13:20	↓																		X	↓			3
3 SB-4A@1'	↓	13:30	↓																		X	↓			3
4 SB-4A@5'	↓	13:35	↓																		X	↓			3
5 SB-68A@1'	↓	13:58	↓																		X	↓			3
6 SB-68A@5'	12/03/09	14:05	S																		X	↓			3

RUSH

Page 56 of 58

Project Info.

Project Name:
Project#:
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 14.2°C
Conforms to record:

TAT: 5 Day | 3 Day | 2 Day | 1 Day
Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse
*TestAmerica SF reports 8015M from C_8-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1757	Signature / Time	Signature / Time
Printed Name: Andrea Valdivia Date: 12/03/09	Printed Name / Date	Printed Name / Date
Company: ARCADIS	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time	Signature / Time	Signature / Time
Printed Name: Mullen Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Rev09/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

120-24445

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 120897

Date 12/03/09 Page 1 of 2

Report To

Attn: Kathy Brandt
Company: Arcadis
Address: 1900 Powell St, Emeryville
Phone: Email:
Bill To:
Sampled By: A. Valdivia
Attn: Phone:

Analysis Request

	Sample ID	Date	Time	Matrix	Preserv	TPH EPA - ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other:	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides: ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS): ☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	Low Level VOCs	Rush 24-hr			Number of Containers
1	SB-34A@1'	12/03/09	10:37	S																		X	X			3
2	SB-34A@5'		10:43																			X				3
3	SB-38A@1'		10:55																			X				3
4	SB-38A@5'		11:05																			X				3
5	SB-18A@1'		11:09																			X				3
6	SB-18A@5'		11:18																			X				3
7	SB-40A@1'		11:25																			X				3
8	SB-40A@5'		11:35																			X				3
9	SB-19A@1'		11:39																			X				3
10	SB-19A@5'	12/03/09	11:51	S																		X				3

RUSH

Project Info.

Project Name: Redback Gateway
Project#: RC000746.0002.00007
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 14.2°C
Conforms to record:

TAT: 5 Day | 3 Day | 2 Day | 1 Day
Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse
*TestAmerica SF reports 8015M from C_8-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1757	Signature: Time:	Signature: Time:
Printed Name: Andrea Valdivia Date: 12/03/09	Printed Name: Date:	Printed Name: Date:
Company: ARCADIS	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Lou Mullen Time: 1757	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 12-3-09	Printed Name: Date:	Printed Name: Date:
Company: TestAmerica	Company:	Company:

Rev09/09

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 720-24445-1

Login Number: 24445

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	Received out of temp
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

DuPont Engineering
Cypress Station
140 Cypress Station Drive Suite 140
Houston, TX 77090
281 444-6000 Tel 281 586-5650 Fax

March 3, 2010

Mr. Peter Ruttan, P.G.
Project Manager
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826

Dear Mr. Ruttan:

DUE DILIGENCE SUMMARY REPORT BY ARCADIS FOR PG&E
DUPONT OAKLEY SITE, OAKLEY, CALIFORNIA
EPA ID CAD 009151671

Enclosed please find a hard copy and CD-ROM of a report provided to E. I. du Pont de Nemours and Company (DuPont) by Pacific Gas and Electric Company (PG&E). The report is a summary of environmental due diligence investigations performed by PG&E's consultant, Arcadis, on DuPont property (the Western Development Area, or WDA) which is no longer subject to corrective action. As depicted on the enclosed figures, the due diligence area of interest is approximately 22 acres in size and is adjacent to DuPont property which is subject to the Corrective Action Consent Agreement (CACA) between DuPont and the Department of Toxic Substances Control (DTSC).

PG&E's interest in the 22 acre parcel relates to the planned construction of an electrical power generating facility at this location. As a result, the Arcadis report will be submitted to the California Energy Commission and PG&E has asked DuPont to provide a copy to DTSC.

Also attached, please find a brief review of the Arcadis report by URS Corporation (URS), which was requested by DuPont. In summary, the soil sample results reported by Arcadis are within the expected concentration ranges and, although Arcadis presents a somewhat different interpretation of the Oakley site stratigraphy and hydrology, their groundwater analytical data are generally consistent with values from other locations in the vicinity. As recommended by URS, DuPont will resample two of the Arcadis wells (MW-3S and MW-5S) according to procedures approved by DTSC for the Oakley groundwater monitoring program. Because these wells are not part of the Oakley corrective action monitoring well network, their analytical results will not be included in reports required by the CACA.

Although the Arcadis report is not a CACA deliverable, DuPont would appreciate receiving an acknowledgement of its receipt by DTSC. If you have any questions about the information provided either by PG&E/Arcadis or DuPont/URS, please call me at 218-586-5676.

Very truly yours,

DUPONT CORPORATE REMEDIATION GROUP

Chuck Orwig
Project Coordinator/Project Director
CHO:lp

C: Mr. Nathan Casebeer, CVRWQCB, Rancho Cordova
Mr. Bob Deaver, Oakley Site
Ms. Linda McGlochlin, Parsons (electronic copy only)
Mr. Jon Maring, PG&E (electronic copy only)
Mr. David Harnish, PG&E (electronic copy only)
Mr. Jim McLucas, Radback Energy (electronic copy only)

Enclosures as stated

TECHNICAL MEMORANDUM

TO: Chuck Orwig (DuPont)

FROM: Michael J McGill (URS-Houston)

DATE: February 26, 2010

RE: **Review of ARCADIS Due Diligence Summary Report**, **Radback Oakley Power Generation Project, Oakley, California**

ARCADIS completed a due diligence investigation at a 22 acre portion of the Western Development Area (WDA) located on E.I. du Pont de Nemours and Company (DuPont) Oakley property on behalf of Pacific Gas and Electric Company. At the request of DuPont, URS reviewed an electronic copy of the January 15, 2010 ARCADIS Due Diligence Summary Report that describes the activities associated with the evaluation of soil and groundwater conditions of the portion of the WDA which is proposed for construction of a power plant by Radback.

Background

The field activities associated with due diligence evaluation of soil and groundwater conditions at the WDA were conducted from October 2009 through December 2009. A total of seventy-nine soil borings were advanced between October 19 and December 3 and soil samples were collected at each boring location at various intervals: either 0 to 1, 3 to 5 and/or 10 to 15 feet below ground surface (bgs). The soil samples were analyzed for diesel range organics (DROs) by United States Environmental Protection Agency (USEPA) Method 8015B, VOCs by USEPA Method 8260B, semi volatile organic compounds (SVOCs) by USEPA method 8270, poly aromatic hydrocarbons (PAHs) by USEPA Method 8270C, organochlorine pesticides by USEPA Method 8081, organophosphorus pesticides by USEPA Method 8141/614, PCBs by USEPA Method 8082, Priority Pollutant (PP) metals (including mercury) using USEPA Method 6010B/7470/7471, and dioxins and furans by USEPA Method 8280.

A total of eleven cone penetrometer (CPT) borings were installed by ARCADIS to collect detailed lithologic data to identify permeable zones and to collect discrete groundwater samples using the Hydropunch method. The discrete groundwater samples were collected from various vertical intervals corresponding with shallow water bearing zones ranging from 6 to 48 feet. The discrete groundwater samples were analyzed for DROs by USEPA Method 8015B, low-level VOCs using USEPA Method 8260B, SVOCs and PAHs by USEPA Method 8270C, organochlorine pesticides by USEPA Method 8081, organophosphorus pesticides by USEPA Method 8141/614, and PP metals (include mercury) by USEPA Method 6010B/7470/7471.

Following the CPT investigation, eleven groundwater monitoring wells were installed at six locations in clusters of one to three wells to evaluate groundwater quality and hydraulic conditions at the property. The well locations corresponded with the northern boundary adjacent

to the DuPont site, the PG&E Antioch gas transfer station, the former sandblast area, and within the vineyards. The maximum depth of the monitoring wells was 140 feet bgs. Groundwater samples collected from the monitoring wells were analyzed for DRO using USEPA Method 8015B, VOCs using USEPA Method 8260B, SVOCs using USEPA Method 8270C and PP metals (including mercury) by USEPA Method 6010B/7470/7471. In addition, the monitoring wells were used to collect data to evaluate the potential influence that redevelopment activities may have on the DuPont property.

ARCADIS conclusions regarding the nature and extent of COCs at the site include:

- Several constituents were detected above the laboratory's method detection limits (MDLs) in the site soil samples. Only PCBs were detected in soil above relevant screening levels in one soil sample at one location (CPT-4). Following receipt of the initial laboratory results an additional four borings were installed near CPT-4 at various distances to confirm the presence of PCBs. All results from the supplemental borings were below laboratory reporting limits.

- Several constituents were detected above the laboratory's MDLs in the site groundwater samples. Only DRO and carbon tetrachloride were detected in groundwater above the environmental screening levels used by ARCADIS in 8 locations, 6 of these in the northeast portion of the WDA area studied by ARCADIS.

URS Comments to Report

URS has reviewed the ARCADIS summary report to evaluate whether the results are consistent with those presented in the DuPont Oakley Phase 2 Groundwater RCRA Facility Investigation (RFI) report and to determine if the additional data can be utilized to supplement the existing groundwater data set on the adjacent DFA-1 parcel. Please note that URS did not evaluate the portions of the ARCADIS summary report that pertained to the hydrogeologic analysis. The following summarizes URS comments to the report which are identified by the report section and the applicable paragraph:

Section 1.5.1 Arsenic in Soil

The second paragraph of the section indicates that ARCADIS used a calculated value proposed by DuPont in the Phase 1 Soil RFI Report to set its background screening value for arsenic at 19 mg/kg. It should be noted that subsequent to the Phase 1 Soil RFI Report, DuPont and DTSC determined that 9.9 mg/kg is the appropriate regional and site-specific background value for arsenic. URS reviewed the ARCADIS soil data for arsenic and confirmed that all the soil samples results are below 9.9 mg/kg.

Section 2.2.1 Cone Penetrometer Testing

This section indicates that grab groundwater samples were collected using the Hydropunch technique method. No details are provided within the document regarding purging prior or

collection of field parameters prior to sampling. During a February 9, 2010 conference call with ARCADIS, it was indicated that there was no purging or collection of field parameters from the CPTs prior to sampling. URS has often observed that results of grab samples collected using the Hydropunch technique have a tendency to be biased high due to higher levels of turbidity when compared to results from properly purged monitoring wells. Therefore, URS recommends that the results from the CPTs be reviewed with this consideration especially for metals analyses.

Section 2.4 Baseline Groundwater Monitoring Well Sampling Water-Level Gauging

This section describes the monitoring well sampling but no details of the purging and sampling methodology is presented. During a February 9, 2010 conference call with ARCADIS, it was indicated that there was no purging or collection of field parameters from the wells prior to sampling. The methodology used by ARCADIS is not consistent with the Fieldwork SOPs for the Oakley site therefore the monitoring well sampling results may not be directly comparable to groundwater results collected during the DuPont RFI. It is recommended that wells with detections of constituents above the applicable WQOs for the DuPont Oakley site be re-sampled using the methodology outlined in the approved SOP to verify groundwater quality.

Section 3.1.1 Soil Boring Samples

In the electronic copy reviewed by URS, the second bulleted paragraph indicates that acetone was detected in multiple locations with concentrations ranging from 46 mg/kg to 200 mg/kg. However, Table 3B indicates that the acetone results are in µg/kg. Follow-up conversation with ARCADIS indicates that the correct units are µg/kg and replacement text will be provided for the printed report sent separately to DuPont.

Section 3.2.1 CPT (Grab) Samples

The first bulleted paragraph indicates that arsenic, selenium, and zinc were detected in samples from CPT locations. ARCADIS evaluated the results against Environmental Screening Levels (ESLs) and the results were below the screening levels presented in the report. URS evaluated the same data against the DuPont Oakley WQOs and three CPT grab groundwater samples exceeded the WQO for arsenic (10 µg/L). The concentrations of selenium and zinc were below their applicable WQOs.

The second bulleted paragraph indicates that acetone and carbon tetrachloride were detected in grab samples from CPT locations. Carbon tetrachloride was detected above the WQO of 0.5 µg/L in six samples from 4 CPT locations (CPT-03 through CPT-06) in the northeastern portion of the WDA. The concentrations of acetone were below their applicable WQOs. Other VOCs detected in the grab but not mentioned in the ARCADIS report include chloroform, Freon 113 (1,1,2-trichlorotrifluoroethane), and diesel orange organics. These VOCs were all detected at concentration less than their applicable WQOs.

As mentioned above, results from discrete samples may tend to be biased high due to the increased turbidly in the samples due to the sampling methodology.

Section 3.2.2 Monitoring Well Samples

The first bulleted paragraph indicates that arsenic, selenium, and zinc were detected in groundwater samples from monitoring wells. ARCADIS evaluated the results against the ESLs and the results were below the screening levels presented in the report. URS evaluated the same data against the DuPont Oakley WQOs and arsenic was detected in one well (MW-3S) above the WQO of 10 µg/L. The concentrations of selenium and zinc were below their applicable WQOs.

The second bulleted paragraph indicates that acetone, carbon tetrachloride, and chloroform were detected in grab samples from the monitoring wells. Carbon tetrachloride was the only VOC detected at concentrations above its WQO. In addition, several other VOCs were detected in the groundwater samples including acetone, bromodichloromethane, bromoform and dibromochloromethane, Freon 113 (1,1,2-trichlorotrifluoroethane), and diesel orange organics. These VOCs were all detected at concentrations less than their applicable WQOs.

As mentioned above, the monitoring wells were not sampled in accordance with the procedures outlined in the DuPont Oakley SOPs. URS recommends that monitoring wells MW-3S and MW-5S be resampled in accordance with the methodology outlined in the DuPont SOP to verify the constituent concentrations within the Surficial Aquifer.

Section 3.3 Hydraulic Conductivity Testing Results

This section presents the results from ARCADIS pumping tests on newly installed monitoring wells in the study area. The hydraulic conductivities that were calculated from the pumping test data do not correspond with the values that DuPont has determined during numerous pumping tests and operation of the groundwater extraction system for a decade at the Oakley site. Generally, DuPont has determined the hydraulic conductivities increase with depth from the Surficial Aquifer (80 ft/day) to the Lower Aquifer (144 ft/day). The differences in hydraulic conductivity values could be due to the duration of the pumping tests, the adequacy of the well development, and the aquifer designation that ARCADIS chose for the newly installed monitoring wells.

Section 4. Site Characterization

The third paragraph summarizes the hydrostratigraphy of the DuPont Oakley site. The lithology summary presented in the text of the ARCADIS report does not include the aquitard unit between the Upper and Lower Aquifers. A review of the CPT logs and borings logs in the ARCADIS report indicates that the Upper/Lower Aquitard is present between the Upper and Lower Aquifers. The absence of this unit from the hydrostratigraphic profile results in an overestimate of the thickness intervals of the units. The Upper Aquifer is over estimated by 30 feet in the Upper Aquifer and the Lower Aquifer is underestimated by 15 to 25 feet. As detailed in the Phase 2 GW RFI Report for the DuPont Oakley site, the hydrostratigraphy has been determined during the RFI to be the following:

- Surficial Aquifer: The Surficial Aquifer is the uppermost hydrostratigraphic unit and is composed of fine-grained sand. This unit varies from 5 to 15 feet thick over most of the site, but increases in thickness up to 27 feet south and east of the former manufacturing areas.
- Surficial/Upper Aquitard: The Surficial/Upper Aquitard is the second hydrostratigraphic unit and consists of clays, silty clays, and silts. This unit is generally present at a thickness of 10 to 20 feet across most of the site, but thins to less than 5 feet in many areas along the downgradient margin of the site.
- Upper Aquifer: The Upper Aquifer is the third hydrostratigraphic unit and is composed of sand, silty sands, and gravelly sands. The Upper Aquifer typically ranges between 15 and 30 feet thick, but attains thicknesses greater than 40 feet in the eastern portions of the site
- Upper/Lower Aquitard: The Upper/Lower Aquitard is the fourth hydrostratigraphic unit and consists of clays, silty clays, and silts. The aquitard separates the Upper and Lower Aquifer intervals across the Oakley Site, although there is some communication between the two aquifer units. This unit generally ranges from 10 to 25 feet thick across most of the site.
- Lower Aquifer: The Lower Aquifer is the lowermost hydrostratigraphic unit and is composed of sand, silty sands, gravelly sands, and in certain areas, sandy gravels. The Lower Aquifer ranges from approximately 40 to 60 feet thick across most of the site.
- Montezuma Formation: The Montezuma Formation defines the base of unconsolidated sediments underlying the Oakley Site. It is a silt and silty clay unit, present at an average depth of approximately 120 feet bgs, extending to a depth of up to 390 feet bgs.

A cross-section prepared by ARCADIS has been edited by URS to reflect the above hydrostratigraphy and is attached as Figure 1.

A review of the monitoring wells installed by ARCADIS indicates that the monitoring wells that are identified as representative of the Upper Aquifer are all installed in the Lower Aquifer. URS has prepared a table (Table 1) that organizes the CPT and monitoring wells into the aquifer units that correspond with the hydrostratigraphy listed above. The differences in aquifer thickness by ARCADIS may help explain the variations in the hydraulic conductivities and the groundwater potentiometric surface maps included with the report when compared to those prepared for the DuPont Oakley site during the RFI.

Section 5.2 Conceptual Site Model

The third paragraph of this section indicates that groundwater fluctuations detected during a 10 day groundwater level monitoring event were due to tidal fluctuations. DuPont conducted a tidal study at the site which is presented in the Phase 1 GW RFI Report and the results indicated that the tidal influence on groundwater is isolated to areas adjacent to the San Joaquin River and Little Break. The area under review by ARCADIS is over 1,000 feet upgradient from the portions of the DuPont Oakley site where tidal related fluctuations were observed during the tidal study.

Groundwater Quality at DFA-1 Parcel

The groundwater data collected by ARCADIS was reviewed by URS to update the current understanding of groundwater quality at the adjacent DFA-1 parcel. The only constituents that were detected at concentrations above the applicable WQOs in the groundwater samples collected from CPTs and monitoring wells installed by ARCADIS at the WDA were arsenic and carbon tetrachloride. Arsenic was detected in samples from 3 CPTs and one monitoring well. The concentrations are slightly above the WQO of 10 µg/L and may be biased high due to the methodology utilized to collect the samples.

As noted previously, carbon tetrachloride was detected in groundwater samples collected from one CPT and two monitoring wells in the Surficial Aquifer and four CPTs in Upper Aquifer installed by ARCADIS. In order to evaluate if the new groundwater data has changed the conceptual model for the DFA-1 parcel, the historic and recent carbon tetrachloride results from discrete locations and monitoring wells installed in the Surficial Aquifer and discrete locations in the Upper Aquifer (no monitoring wells are installed in the Upper Aquifer within the DFA-1 parcel) were posted on figures. The combined data set indicates that the concentrations of carbon tetrachloride above WQOs are located in isolated areas northwest of the TiO_2 Landfill.

In the Surficial Aquifer (Figure 2), three samples collected from discrete sample locations (06TL-14, 06TL-15, and CPT-3) were detected with concentrations of carbon tetrachloride above the WQO of 0.5 µg/L ranging from 1.4 to 4.5 µg/L. Samples collected from monitoring wells installed in the Surficial Aquifer indicate concentrations above the WQO at MW-3S (1.3 µg/L) and MW-5S (2.6 µg/L). The carbon tetrachloride concentrations of all the samples are in the same order of magnitude and localized when evaluated with groundwater data collected from the DuPont Oakley site. The data indicates that the low levels of carbon tetrachloride detected in the DFA-1 area are unrelated to the larger carbon tetrachloride plume located downgradient at the DuPont site.

The Upper Aquifer groundwater data consists of discrete samples collected from CPTs by ARCADIS (Figure 3). As mentioned previously, the wells installed by ARCADIS that are labeled as Upper Aquifer wells were installed in the Lower Aquifer and are therefore not used in this evaluation, even though they are non detect for carbon tetrachloride. In addition to the ARCADIS discrete samples, all historic groundwater samples collected by DuPont in the DFA-1 parcel were added to Figure 3 and consisted of two CPT locations (B-118 and B-119) installed by DuPont in February 1996. Carbon tetrachloride was detected at concentrations above the WQO at five CPT locations (B-118 and CPT-03 through CPT-06) ranging from 1.1 to 19 µg/L. Please note that the duplicate sample collected from CPT-06 was not detected for carbon tetrachloride. All the CPT locations except B-118 are located northwest of the TiO_2 Landfill. B-118 is located at the southwest corner of the TiO_2 Landfill. Two CPTs (B-119 and CPT-01) were installed near B-118 and were both non-detect for carbon tetrachloride however both locations are installed upgradient of B-118. The data suggests that carbon tetrachloride concentrations at B-118 are isolated from the other carbon tetrachloride detections located northwest of the TiO_2 Landfill. CPT-2 is located between the two carbon tetrachloride concentrations areas and it is below the MDL for carbon tetrachloride. The data indicates that the low levels of carbon tetrachloride

detected in the DFA-1 area are unrelated to the larger carbon tetrachloride plume located downgradient at the DuPont site.

The Lower Aquifer groundwater data consists of one discrete sample collected from CPT-06 at 67 feet below grade and five monitoring wells (MW-1U, MW-1L, MW-5U, MW-6U, and MW-6L). The only detection of carbon tetrachloride is from CPT-06 at 1.1µg/L which is slightly above the WQO. All groundwater samples from the monitoring wells were not detected for carbon tetrachloride. Overall the ARCADIS groundwater data indicates that there is no concern for carbon tetrachloride in the Lower Aquifer despite the detection in CPT-06. URS would caution using the discrete result from CPT-06 as an indication of carbon tetrachloride in the Lower Aquifer. The result in CPT-06 from 67 feet is the same as the result from 37 feet and as detailed above the duplicate sample was non detect for carbon tetrachloride. Similar circumstances of groundwater results from discrete locations have occurred during the RFI at the DuPont Oakley site and attempts to confirm discrete samples via monitoring wells have typically resulted in no detection of the VOCs.

References

ARCADIS. January 15, 2010. Due Diligence Summary Report, Radback Oakley Power Generation Project, Oakley, California.

DuPont CRG. May 2, 2008. Phase 1 Groundwater RFI Report, DuPont Oakley Site.

URS Corporation. September 2009. Development Focus Area #1 Groundwater Conditions Report, DuPont Oakley Site.

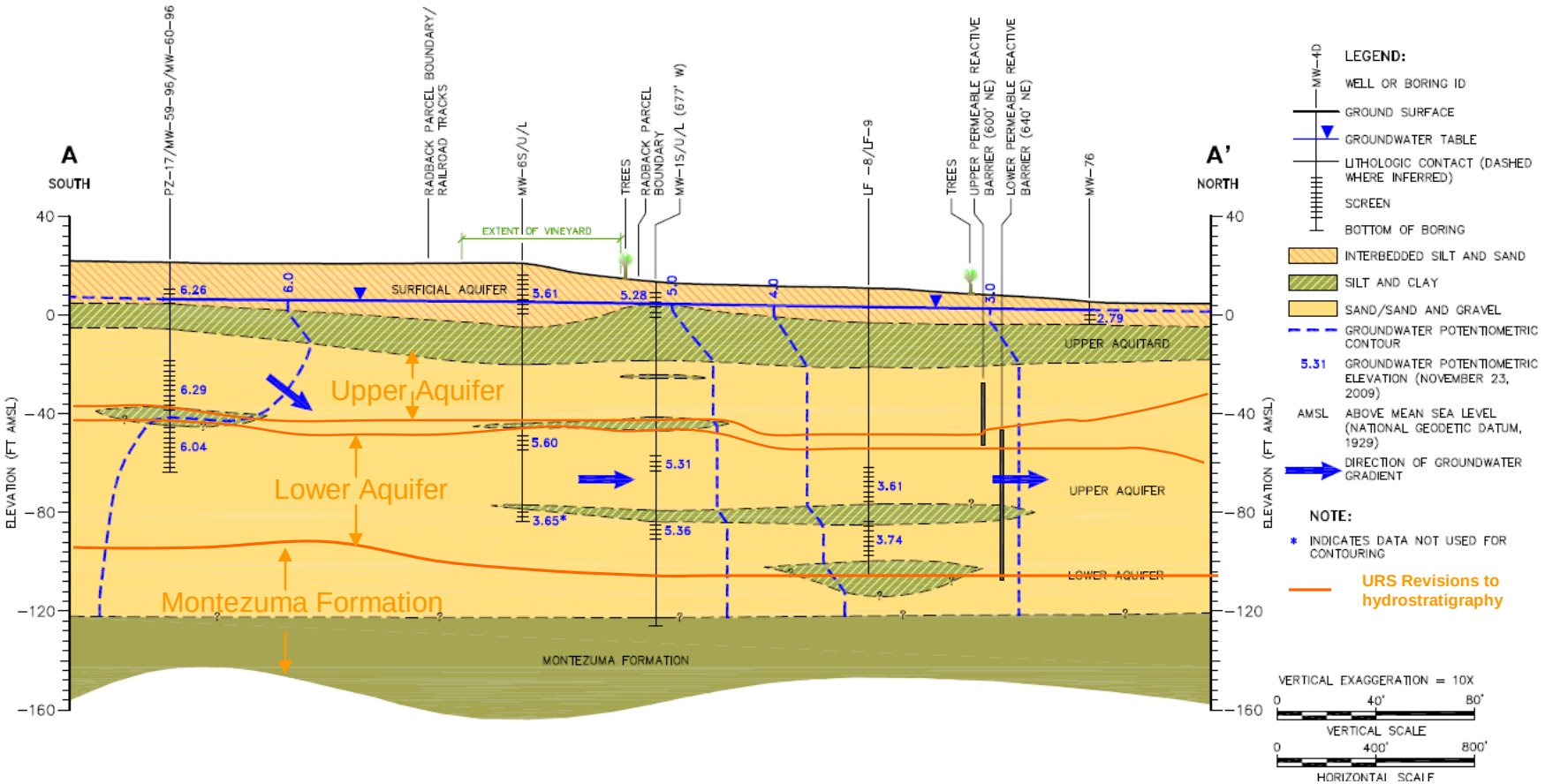
URS Corporation, November 2009. Phase 2 Groundwater RFI Report, DuPont Oakley Site.

TABLE 1
Summary of Cone Penetrometer and Monitoring Well Aquifer Designations
DuPont Oakley Site
Oakley, CA

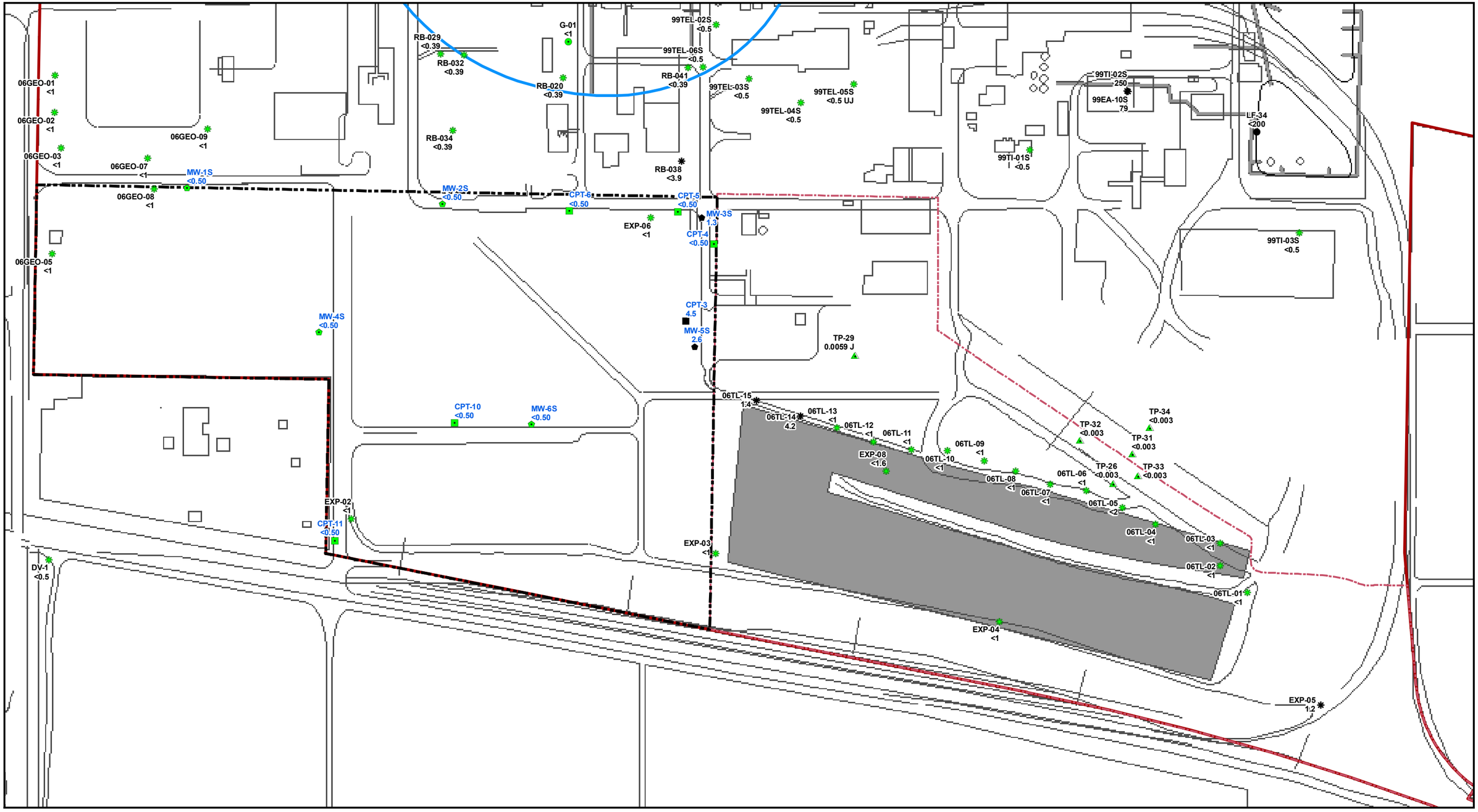
Monitoring Well ID	Northing[a]	Easting[a]	Total Depth	Top of Screen	Bottom of Screen	Top of Casing Elevation	Carbon Tetrachloride
			(ft btoc)	(ft btoc)	(ft btoc)	(ft)[b]	(ug/L)
Surficial Aquifer							
MW-1S	2192984	6201673	15	5	15	14.65	<0.50
MW-2S	2192950	6202219	18	8	18	21.6	<0.50
MW-3S	2192920	6202773	18	8	18	20.76	**1.3**
MW-4S	2192676	6201955	15	5	15	18.9	<0.50
MW-5S	2192644	6202758	18	8	18	22.77	**2.6**
MW-6S	2192479	6202409	25	5	25	24.32	<0.50
PZ-17 - DuPont	2191042	6202693	16	11	16	24.04	<0.50
LF-13 - DuPont	2193902	6202602	21.5	5	20	10.97	<0.50
LF-34 - DuPont	2193163	6203981	15.8	4	14	14.29	<0.50
LF-35 - DuPont	2193012	6204073	19	5	14.5	15.64	<0.50
MW-76 - DuPont	2194723	6201844	10	5	10	6.3	<0.50
Upper Aquifer							
LF-14 - DuPont	2193902	6202600	45	35	44.5	10.85	<0.50
MW-31 - DuPont	2192741	6204223	36.5	20	30	14.67	<0.50
MW-59 - DuPont	2191041	6202718	63	41	62	24.69	<0.50
MW-61 - DuPont	2194233	6201466	61.5	38	58	14.68	<0.50
Lower Aquifer							
MW-1U	2192984	6201699	77	72	77	14.91	<0.50
MW-5U	2192645	6202751	67	60	65	22.8	<0.50
MW-6U	2192479	6202403	80	71.5	76.5	24.72	<0.50
MW-1L	2192984	6201687	140	100	105	14.76	<0.50
MW-6L	2192479	6202395	105	101	105	22.74	<0.50
MW-30 - DuPont	2192746	6204200	122	100	115	13.12	<0.50
MW-32 - DuPont	2192751	6204225	91.5	70	90	14.71	<0.50
MW-55 - DuPont	2194229	6201474	--	--	--	--	<0.50
MW-63 - DuPont	2194737	6201432	112	90	110	9.74	<0.50
MW-60 - DuPont	2191042	6202731	87	65	85	23.81	<0.50
LF-08 - DuPont	2193902	6202290	115	73	87.5	11.56	<0.50
LF-09 - DuPont	2193902	6202279	116	94.5	110.5	11.84	<0.50
CPT-01			32-37				<0.50
CPT-02			32-37				<0.50
CPT-03			14				**4.5**
			26				**5**
CPT-04			12				<0.50
			22				**19**
CPT-05			15				<0.50
			23				**1.4**
CPT-06			14				<0.50
			37				**1.1**
			67				**1.1**
CPT-06 (FD)			37				<0.50
CPT-10			15-20				<0.50
			40-47				<0.50
CPT-11			13-18				<0.50
			35-40				<0.50

Surficial Aquifer
Upper Aquifer

a. North American Datum 83.
b. National Geodetic Vertical Datum 1929



URS URS CORPORATION 10550 Richmond Avenue, Suite 155 Houston, Texas 77042	TITLE: **ARCADIS Hydrogeologic Cross-Section A –A' with URS Edits** DuPont Oakley Site	DWN:	DES.:	PROJECT NO.: 18985470
		CHKD:	APPD:	FIGURE NO.: 1
		DATE:	REV.:	



Legend

DUPONT TEMPORARY PIEZOMETERS:
- TEMPORARY PIEZOMETERS >WQO
- TEMPORARY PIEZOMETERS <WQO

RADBACK MONITOR WELLS:
- RADBACK MONITOR WELLS >WQO
- RADBACK MONITOR WELLS <WQO

RADBACK CONE PENETROMETERS:
- CONE PENETROMETERS >WQO
- CONE PENETROMETERS <WQO

DUPONT DISCRETE WATER SAMPLES:
- DISCRETE WATER SAMPLES >WQO
- DISCRETE WATER SAMPLES <WQO

DUPONT MONITORING WELLS:
- MONITORING WELLS >WQO
- MONITORING WELLS <WQO

- APPROXIMATE EXTENT OF DUPONT CARBON TETRACHLORIDE PLUME
- TiO2 LANDFILL AREA
- RADBACK PARCEL BOUNDARY
- DEVELOPMENT FOCUS AREA #1
- OAKLEY PROPERTY BOUNDARY

Concentrations in ug/l
Carbon Tetrachloride Water Quality Objective (WQO) = 0.5 ug/l

N

0 100 200 400 Feet

URS
10550 RICHMOND, SUITE155
HOUSTON, TEXAS 77042
PH: (713) 914-6699
FAX: (713) 789-8404

Scale: As Shown	Drawn by: KPL	Date: 03/01/10	
	Chk'd by: MJM	Date: 03/01/10	

Title: **DFA-1 and WDA Groundwater Sample Locations and Carbon Tetrachloride Results**

Project: Surficial Aquifer

Client: **DuPont Oakley Site**

Project No.: 18985470 | File Name: DFA1GW_SA.mxd | Figure: 2

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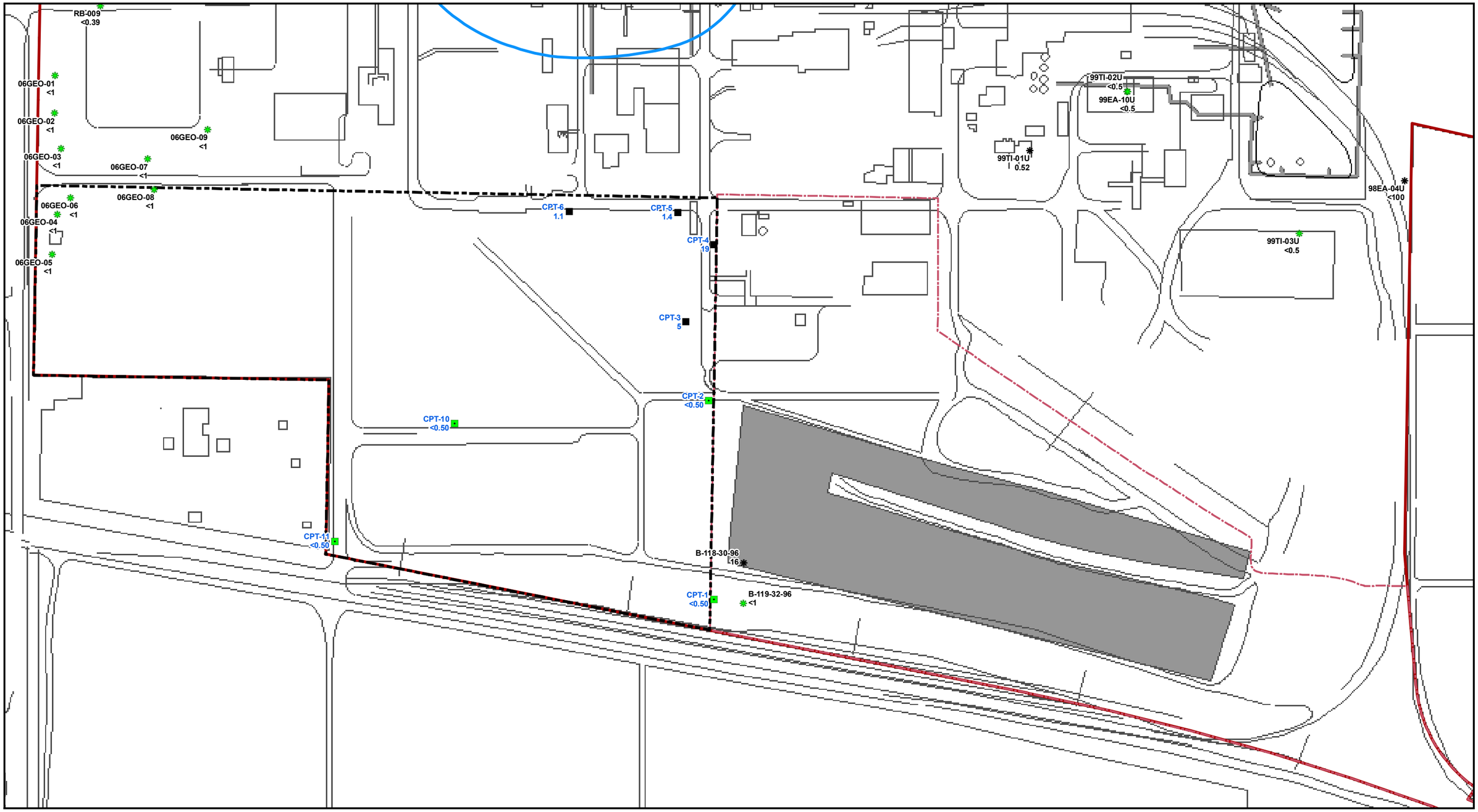

Legend

DUPONT DISCRETE WATER SAMPLES:

- DISCRETE WATER SAMPLES >WQO
- DISCRETE WATER SAMPLES <WQO

RADBACK SAMPLES:

- CONE PENETROMETERS >WQO
- CONE PENETROMETERS <WQO

- APPROXIMATE EXTENT OF DUPONT CARBON TETRACHLORIDE PLUME
- TiO2 LANDFILL AREA
- RADBACK PARCEL BOUNDARY
- DEVELOPMENT FOCUS AREA #1
- OAKLEY PROPERTY BOUNDARY

Concentrations in ug/l
Carbon Tetrachloride Water Quality Objective (WQO) = 0.5 ug/l

N

0 100 200 400 Feet

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Title: **DFA-1 and WDA Groundwater Sample Locations and Carbon Tetrachloride Results**

Project: Upper Aquifer

Client: **DuPont Oakley Site**

Scale:	Drawn by:	Date:	Project No.:	File Name:	Figure:
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	Chk'd by: MJM	Date: 03/01/10			

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Linda S. Adams
Secretary for
Environmental Protection

Department of Toxic Substances Control

Maziar Movassaghi, Acting Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Arnold Schwarzenegger
Governor

March 15, 2010

Mr. Charles Orwig, Project Director
DuPont Corporation Remediation
E.I. du Pont de Nemours and Company
140 Cypress Station Drive, Suite 140
Houston, Texas 77090

DUE DILIGENCE SUMMARY REPORT BY ARCADIS FOR PG&E, DUPONT OAKLEY SITE; EPA ID. NO. CAD009151671

Dear Mr. Orwig:

In accordance with your request, and as confirmation, the Department of Toxic Substances Control (DTSC) acknowledges receipt of the Due Diligence Summary Report (Report) for the Radback Oakley Power Generation Project. The Report was prepared by Arcadis and is dated January 15, 2010. DTSC understands that the Report documents the results of soil and groundwater investigations on a portion of the Western Development Area, west of Development Focus Area 1. The work performed by Arcadis is not required under the Corrective Action Consent Agreement, dated June 6, 2003, between DTSC and DuPont.

DTSC has no plans to review and comment on the Report at this time. We understand that DuPont plans to resample some of the wells installed on the westerly parcel. DTSC looks forward to discussing with DuPont the results of this groundwater sampling effort in the near future. If you have any questions regarding this letter, please contact me at (916) 255-3630.

Sincerely,

Peter Ruttan, P.G.
Project Manager, Engineering and Special Projects Office
Brownfields and Environmental Restoration Program

cc: (via e-mail)
Ms. Lynn Gerhard, Parsons
Ms. Linda McGlochlin Wolff, P.G., Parsons
Mr. Nathan Casebeer, P.E., CVRWQCB
Mr. Rizgar Ghazi, P.E., DTSC

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BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION
FOR THE *OAKLEY GENERATING STATION*

Docket No. 09-AFC-4
PROOF OF SERVICE
(Revised 2/4/2010)

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*indicates change

DECLARATION OF SERVICE

I, Mary Finn, declare that on April 29, 2010, I served and filed copies of the attached Oakley Generation Station DuPont Property Due Diligence Summary Report for the Oakley Generating Station Project (09-AFC-4). The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: **[http://www.energy.ca.gov/sitingcases/contracosta/index.html].** The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(*Check all that Apply*)

For service to all other parties:

_____ sent electronically to all email addresses on the Proof of Service list;

__x__ by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

_____ **sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);**

OR

___x__depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 09-AFC-4
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Mary Finn