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*By Alameda County Environmental Health 2:25 pm, Jul 27, 2015*

July 22, 2015

Mr. Keith Nowell  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Site Investigation Report**

**76 (Former BP) Station No. 2611117  
7210 Bancroft Avenue  
Oakland, California  
Fuel Leak Case No. RO0000356**

Dear Mr. Nowell:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact Mr. Dennis Dettloff at (916) 503-1261.

Sincerely,

A handwritten signature in black ink that reads "ED Ralston". The signature is written in a cursive style with a large, stylized "E" and "R".

Edward C. Ralston  
Program Manager  
Remediation Management

# Site Investigation Report

*76 (Former BP) Station No. 11117  
7210 Bancroft Avenue  
Oakland, CA*

*Alameda County Health Care Services Agency  
Fuel Leak Case No. RO0000356*

*Regional Water Quality Control Board  
San Francisco Bay No. 01-0215*

*GeoTracker Global ID No. T0600100201*

*Antea Group Project No. I42611117*

*July 22, 2015*

*Prepared for:*  
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## 1.0 INTRODUCTION

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Antea Group has prepared this Site Investigation Report describing the advancement of twenty-six (26) soil borings down-gradient of the site located at 7210 Bancroft Avenue in Oakland, California. This work was performed as proposed in the *Work Plan for Contamination Delineation* dated December 31, 2014 submitted by Antea Group to the Alameda County Health Case Service Agency (ACHCSA) and modified by an approval letter dated March 5, 2015 from Mr. Keith Nowell of the ACHCSA. A copy of the letter is included as **Appendix A**.

### 1.1 Site Description

The site is a former 76 gas station, now a vacant lot, located at 7210 Bancroft Avenue in Oakland, California (**Figure 1**). In July 2014 the station building, fuel dispensers, underground storage tanks (USTs), and the associated product piping, were removed (**Figure 2**). In addition, all of the monitoring and remediation wells associated with the site, with the exception of monitoring well MW-10, were destroyed.

### 1.2 Previous Assessment

1984 UST Replacement: In 1984, the pre-existing USTs at the site were removed and three single-walled fiberglass gasoline USTs (6,000-gallon, 10,000-gallon, and 12,000-gallon) and one 6,000-gallon diesel UST were installed in a cavity immediately to the northeast of the former USTs. A UST removal/installation report is not on file, and it is unknown if one was ever prepared. No documentation was reportedly found referencing the conditions of the removed USTs or reporting evidence of the hydrocarbon impacts in the soil and groundwater, if any, at the time of the UST removal.

1989 Phase II Environmental Audit: In December 1989, Hunter Environmental Services, Inc. (Hunter) performed a Phase II Environmental Audit on the adjacent Eastmont Town Center site located to the north and northwest of the former BP Site. Part of the Phase II study included the installation monitoring well MW-3 near the western boundary of the former BP Site. Soil samples collected from 10 and 20 feet below ground surface (bgs) from MW-3 were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene, and total xylenes (BTEX), and oil and grease. No analytes were reported above their respective laboratory reporting limits (LRLs). A groundwater sample collected from MW-3 was reported to contain TPH and benzene at concentrations of 2,700 micrograms per liter ( $\mu\text{g/L}$ ) and 530  $\mu\text{g/L}$ , respectively (Hunter, 1989).

1991 Phase I Subsurface Investigation: In December 1991, Hydro Environmental Technologies, Inc. (Hydro) drilled two on-site soil borings (MW-1 and MW-2) to total depths of 40 feet bgs, and soil samples were collected at 10-foot intervals between 5 and 25 feet bgs. First groundwater was encountered at approximately 30 feet bgs. The analytical results of the soil samples from MW-1 and MW-2 reported total petroleum hydrocarbons as gasoline (TPHg) and BTEX at concentrations below their respective LRLs (Hydro, 1991).

1992 Phase I Subsurface Investigation: In July 1992, Hydro advanced borings MW-4 and MW-6 to total depths of 40 feet bgs, and boring B-5 was advanced to 50 feet bgs, First groundwater was encountered at approximately 30 feet bgs in borings MW-4 and MW-6, and no free water was encountered in boring B-5. The analytical results of soil samples collected at 30 feet bgs from B-5 and MW-6 reported TPHg and BTEX at concentrations below their respective LRLs. The maximum TPHg and BTEX concentrations in soil reported in MW-4 were 6,000 milligrams per kilogram (mg/kg) and 34 mg/kg, respectively, from a depth of 20 feet bgs. Borings MW-4 and MW-6 were subsequently converted into monitoring wells (Hydro, 1992).

1994 Baseline Assessment Report: In September 1994, EMCON performed a Supplemental Site Assessment at the site. Four exploratory soil borings (THP-1, TB-2, TB-3, and TB-4) were advanced to a maximum depth of 45 feet bgs, north of the former and existing UST complexes (THP-1), at the former service bays (TB-2), north of the northern pump island (TB-3), and at a former pump island (TB-4). Additionally, one soil sample was collected from beneath each of the five fuel dispensers (TD-1 through TD-5). Groundwater was encountered in TB-2 and TB-3 at approximately 33 to 36 feet bgs and groundwater samples were collected via temporarily well points. Maximum concentrations of 16 mg/kg TPHg (TD-3), TPH as diesel (TPHd) at concentrations ranging from 110 mg/kg to 5,000 mg/kg (TD-1 through TD-5), and benzene at concentrations below LRLs were reported in soil samples. TPHg was not reported above the LRLs and a maximum concentration of 0.7 µg/L benzene (TB-3) was reported in groundwater samples (EMCON, 1994).

1994 Well Installation: In October 1994, Hydro advanced boring MW-7 to a total depth of 45 feet bgs, and borings MW-8 and MW-9 were advanced to total depths of 40 feet bgs. First encountered groundwater was reported at approximately 27 feet bgs to 32 feet bgs. TPHg and BTEX were not reported above their respective LRLs in soil samples collected from 25 feet bgs in each boring. The three borings were subsequently converted into monitoring wells MW-7 through MW-9 (Hydro, 1995).

1997 Off-site Well Installation: In July 1997, Pacific Environmental Group (PEG) advanced one boring (MW-10), off-site to a depth of approximately 37.5 feet bgs. Soil samples were collected and the boring was subsequently converted into a monitoring well. First groundwater was encountered at approximately 26 feet bgs. No TPHg, BTEX or methyl tertiary butyl ether (MTBE) was reported in soil samples at concentrations above their respective LRLs in MW-10. TPHg and BTEX were not reported in the groundwater sample collected from MW-10 at concentrations above their respective LRLs. However, MTBE was reported at concentration of 13 µg/L using Environmental Protection Agency (EPA) Method 8020 (PEG, 1997).

1998 UST and Associated Piping and Dispenser Removal: In August 1998, Environmental Resolutions, Inc. (ERI) removed the three gasoline USTs (6,000-gallon, 10,000-gallon, and 12,000-gallon), one 6,000-gallon diesel UST, and associated dispensers and piping from the site. There was no visible evidence of leakage from the USTs removed. A total of eight native soil samples were collected from beneath each end of the removed USTs (denoted as A through H on Figure 2) at depths of 14 to 16 feet bgs, and a total of 18 soil samples (denoted as I through Z on Figure 2) were collected from the former dispenser locations and from beneath the associated product lines at three feet bgs (ERI, 1998).

TPHg was reported in five of the eight UST excavation samples at concentrations ranging from 3.7 mg/kg (S-15-T2S) to 5,300 mg/kg (S-15-T1S). TPHd was reported at 630 mg/kg (S-15-T1N) and 800mg/kg (S-15 T1S) in two samples, benzene concentrations ranged from 0.40 mg/kg (S-15-T1N) to 0.95 mg/kg (S-16-T3N) in three samples, MTBE concentrations ranged between 0.028 mg/kg (S-14-T4S) to 5.3 mg/kg (S-16-T3N) in seven samples, and lead was not reported in the one sample analyzed for lead. TPHg was reported in nine of the eighteen dispenser and product line samples with concentrations ranging from 1.4 mg/kg (S-3-PL12) to 7,200 mg/kg (S-3-D4). TPHd was reported from 4.8 mg/kg (S-3-PL12) to 190 mg/kg (S-3-PL11) in five samples, benzene was reported from 0.0089 mg/kg (S-3-PL12) to 22 mg/kg (S-3-D4) in three samples, and MTBE was reported from 0.048 mg/kg (S-3-PL12) to 15 mg/kg (S-3-PL1) in ten samples (ERI, 1998).

During the 1998 UST replacement activities, approximately 389 tons of soil and backfill were transported off-site for disposal. The existing 10,000-gallon diesel and three 12,000-gallon gasoline USTs were installed as replacements (ERI, 1998).

1999 Groundwater Recovery Test: In April 1999, Alisto Engineering Group (Alisto) conducted groundwater recovery tests on monitoring wells MW-1 through MW-4, MW-6, MW-7 and MW-10 to assess the spatial variation in hydraulic conductivity in the shallow water-bearing zone across the site. Testing by the Bouwer-Rice method yielded hydraulic conductivities of  $2.46 \times 10^{-2}$  ft/min for MW-1,  $2.42 \times 10^{-4}$  ft/min for MW-2,  $3.82 \times 10^{-4}$  ft/min for MW-3,  $5.75 \times 10^{-4}$  ft/min for MW-4,  $1.99 \times 10^{-2}$  ft/min for MW-6  $1.09 \times 10^{-4}$  ft/min for MW-7 and  $8.78 \times 10^{-5}$  ft/min for MW-10. The geometric mean of the hydraulic conductivity and flow velocity values were calculated to be  $1.37 \times 10^{-5}$  feet per second and 73.85 feet per year, respectively (Alisto, 1999).

1999 Extraction Well Installation: In November 1999, Cambria Environmental Technology, Inc. (Cambria) installed two 4-inch diameter wells (EX-1 and EX-2) on-site to facilitate potential remedial activities at the site. Well EX-1 was drilled to 39.5 feet bgs and EX-2 was drilled to 36.5 feet bgs. Groundwater was first encountered at 26 feet bgs. No TPHg or BTEX, and relatively low MTBE concentrations (below 0.012 mg/kg) were reported in soil samples collected from EX-1 and EX-2 (Cambria, 2000).

2000 Interim Remedial Action and Recovery Testing: Between March 16 and April 30, 2000, Cambria conducted interim remedial activities at the site to evaluate the effectiveness of hydrocarbon and MTBE reduction using short-term groundwater extraction. During eight extraction events, approximately 10,900 gallons of groundwater was extracted from wells EX-1, EX-2 and MW-2. During the extraction events, stable to slightly decreasing hydrocarbon and MTBE concentration trends were reported in samples collected from wells MW-2 and EX-1, located immediately southwest of the existing USTs. Samples from well EX-2, located north of the existing USTs, exhibited lower hydrocarbon and MTBE concentrations than MW-2 and EX-1. In April 2000, during the batch extraction events, recovery tests were conducted on wells EX-1, EX-2 and MW-2. Based on the recovery test measurements, the calculated hydraulic conductivity values ranged from  $1.85 \times 10^{-4}$  ft/min to  $8.33 \times 10^{-4}$  ft/min with resulting flow velocities of 16 ft/year to 73 ft/year at well MW-2 (Cambria, 2000).

The calculated hydraulic conductivity values ranged from  $2.02 \times 10^{-5}$  ft/min to  $3.85 \times 10^{-5}$  ft/min for well EX-1 with resulting flow velocities of 1.8 to 3.4 ft/yr. And in well EX-2, the calculated hydraulic conductivity values ranged

from  $3.04 \times 10^{-4}$  ft/min to  $2.13 \times 10^{-3}$  ft/min for resulting flow velocities of 27 ft/year to 187 ft/year. The geometric mean of these values is a hydraulic conductivity of  $3.0 \times 10^{-4}$  ft/min and resulting flow velocity of 26 ft/year (Cambria, 2000).

2001 Dual-Phase Extraction Pilot Test: From October 29, through November 2, 2001, Cambria performed a dual phase soil vapor and groundwater extraction (DPE) pilot test on the monitoring wells with the highest historical hydrocarbon concentrations (i.e., MW-2 and MW-4) and the extraction wells (EX-1 and EX-2) at the site. The DPE test results indicated that the vacuum influence was limited to within 18 to 28 feet of the extraction well. Water levels typically decreased several feet in the extraction wells and had a varied response in the observation wells. Estimated vapor-phase removal rates were approximately 200-pounds of hydrocarbon per day in wells MW-4 and EX-1, and less than 5-pounds of hydrocarbon per day in wells MW-2 and EX-2 (Cambria 2002).

Soil vapor concentrations showed a decreasing trend in wells MW-4 and EX-1 during the short-term pilot tests. Grab water samples collected before and after the pilot tests remained the same order of magnitude. A total of 6,500 gallons of water were extracted during the DPE pilot test and appropriately disposed of off-site. Overall, the test results indicated that DPE is a feasible remedial alternative for the site (Cambria, 2002). Alameda County Environmental Health (ACEH) approved Cambria's August 8, 2002, Dual Phase Extraction Pilot Test Report as a Corrective Action Plan (CAP).

2005 Soil and Water Investigation: In fall 2005, URS completed nine Geoprobe® soil borings with co-located Hydropunch borings. The first phase of work was on-site source area characterization: five boring locations (A-1 through A-5) were advanced in the vicinity of the possible hydrocarbons source areas such as locations of the former and current USTs, products dispensers, and in the vicinity of monitoring well MW-4 to adequately characterize the lateral and vertical extent of petroleum hydrocarbons in soils in the identified source areas. An off-site assessment was completed during the second phase of work (borings A-7 through A-10) to further define the down-gradient, cross-gradient, and up-gradient extent of the groundwater plume (soil boring A-6 was unable to be advanced due to close proximity to electric lines and product piping). Maximum concentrations of TPHg, benzene, and MTBE were reported in soil at concentrations of 490 mg/kg [A-4 (23.5-24')], 0.11 mg/kg [A-5 (35-35.5')], and 0.84 mg/kg [A-1 (46-46.5')], respectively. Maximum concentrations of gasoline range organics (GRO), benzene, and MTBE were reported in ground water at concentrations of 510,000 µg/L [A-2 (21.3')], 11,000 µg/L [A-4 (34-36')], and 39,000 µg/L [A-4 (34-36')], respectively (URS, 2005).

The cross-gradient and down-gradient lateral extents of the dissolved hydrocarbon plume were characterized during the last investigation. However, the vertical extent of the dissolved-phase hydrocarbons on the southern portion of the site was not defined. Specifically, significantly elevated concentrations were reported in Hydropunch groundwater samples collected from the bottom depths of soil borings A-2, A-3 and A-4. The bottom Hydropunch sample collected from boring A-2 (40-42 ft bgs) contained concentrations of GRO, benzene, and MTBE at 36,000 µg/L, 1,800 µg/L, and 110 µg/L, respectively. The bottom Hydropunch sample collected from boring A-3 (34-36 ft bgs) contained concentrations of GRO, benzene, and MTBE at 12,000µg/L, 21µg/L, and 8.3µg/L respectively. The bottom Hydropunch sample collected from boring A-4 (34-36 ft bgs) contained GRO, benzene, and MTBE concentrations of 120,000µg/L, 11,000µg/L and 39,000 µg/L respectively (URS, 2005).

Therefore, the vertical extent of dissolved phase petroleum hydrocarbon contamination remains unknown in this southern area of the site (URS, 2005). A work plan for soil and water investigation to delineate the vertical extent of contamination in the southern portion of the site was submitted to ACEH in October 2006.

2007 Soil and Groundwater Investigation: In April 2007, Stratus Environmental, Inc. (Stratus) advanced cone penetrometer test (CPT) borings in three locations on-site (CPT-1 through CPT-3) to maximum depths of 60 feet bgs. CPT-1 was advanced southwest of the dispenser islands and southeast of monitoring well MW-1; CPT-2 was advanced south of the dispenser islands and southwest of monitoring well MW-4; CPT-3 was advanced in the eastern corner of the site as requested by the ACEH. An Ultraviolet Induced Fluorescence (UVIF) module was used at each CPT boring location, analyzing the vertical extent of petroleum hydrocarbons in addition to providing soil profiling data. Groundwater samples were collected from multiple depths at each of the boring locations; physical soil samples were not collected during this investigation.

- TPHg was reported above laboratory reporting limits in five of the seven groundwater samples, ranging from 170 µg/L (CPT-3-28-32') to 170,000 µg/L (CPT-1-37-41').
- Benzene was reported above laboratory reporting limits in four of the seven groundwater samples, ranging from 0.51 µg/L (CPT-3-23-27') to 7,700 µg/L (CPT-2-37-41').
- Toluene was reported above laboratory reporting limits in three of the seven groundwater samples, ranging from 57 µg/L (CPT-1-30-34') to 670 µg/L (CPT-2-28-32').
- Ethylbenzene was reported above laboratory reporting limits in four of the seven groundwater samples, ranging from 530 µg/L (CPT-2-37-41') to 2,600 µg/L (CPT-1-37-41').
- Total xylenes were reported above laboratory reporting limits in four of the seven groundwater samples, ranging from 290 µg/L (CPT-2-37-41') to 9,600 µg/L (CPT-1-37-41').
- MTBE was reported above laboratory reporting limits in five of the seven groundwater samples, ranging from 4.4 µg/L (CPT-3-56-60') to 6,500 µg/L (CPT-2-37-41').
- Tertiary-butyl alcohol (TBA) was reported above laboratory reporting limits in groundwater sample CPT-2-37-41' at 2,400 µg/L.

2007-2008 DPE System Installation: Construction of the DPE system was started by Broadbent & Associates, Inc (BAI) and Stratus in late 2007. The system consists of a thermal/catalytic oxidizer with a 25 horsepower liquid ring blower designed to extract water and vapor from six on-site extraction wells. Extracted vapor were to be treated by thermal/catalytic oxidation and discharged to the atmosphere under the oversight of the Bay Area Air Quality Management District. Extracted groundwater was to be treated by a sediment filter and three 1,000 pounds carbon vessels before being discharged into the City of Oakland sanitary sewer system. DPE wells DPE-1 through DPE-5 were installed at the site to total depths ranging from 35 feet to 40 feet bgs. Monitoring well MW-2 was overdrilled and destroyed to allow DPE-4 to be installed in the same borehole.



As of the end of the fourth quarter 2008 the system had not been started. BAI and Stratus were still coordinating with Pacific Gas & Electric (PG&E) to install electrical service to the system. Natural gas was completed to the site and system in third quarter 2008 (BAI, 2008a).

During DPE construction activities, on-site groundwater monitoring well MW-11 was installed to a total depth of 40 feet bgs on the southern corner of the site. Soil samples collected at 20 feet and 30 feet bgs reported maximum concentrations of 1.9 mg/kg TPHg and 0.0089 mg/kg benzene. MTBE was not reported above the LRL in either of the soil samples (BAI, 2008a).

2009-2011 DPE System Startup Efforts: In 2009, Antea Group (formerly Delta Consultants) began coordinating with nearby businesses (Eastmont Mall and Burger King) for the 3-phase power source. Due to financial consideration, Antea Group also explored another alternative for the startup of the DPE system, which included reconfiguring the current system for single phase power.

2011-2012 Remedial Action Site Investigation: Antea Group submitted the Remedial Action Investigation Work Plan, dated August 03, 2011 to the ACEH. The ACEH approved the proposed scope of work in an agency letter to Antea Group dated September 1, 2011. In October 2011, Antea Group and subcontractors advanced borings C-1 through C-5, and advanced and installed remedial wells SVE-1 and AS-1 per the August 2011 work plan. Antea Group submitted a *Remedial Investigation Work Plan Addendum*, dated December 13, 2011 which proposes a postponement of the AS/SVE pilot test described in the August 3, 2011 *Remedial Action Investigation Work Plan* to utilize a new remedial strategy called Plume Stop, a product created by Regenesis. Between March 26 and 30, 2012, Antea Group and Regenesis oversaw subcontractor Vironex inject Plume Stop at nine soil boring locations using direct push technology.

2013 Site Investigation: Antea Group conducted a site investigation on October 14 through 18, 2013 including the advancement of nine CPT borings (CPT-4 through CPT-12). The borings were advanced in the vicinity of monitoring well MW-4 in an attempt to evaluate soil contamination in the area in preparation for a feasibility study/corrective action plan. Results of the investigation were reported in the *Site Investigation Report*, dated January 24, 2014.

2014 Well Destruction: On July 7 through 10, 2014, Cascade Drilling (Cascade), under supervision of an Antea Group field geologist, destroyed fifteen (15) on-site wells (MW-1, MW-3, MW-4, MW-6, MW-7, MW-11, EX-1, EX-2, DPE-1 through DPE-5, SVE-1, and AS-1) and two (2) off-site wells (MW-8 and MW-9). The well destruction was conducted in preparation for site razing, fuel dispenser piping and UST removal activities.

## **FREE PRODUCT RECOVERY DURING GROUNDWATER MONITORING EVENTS**

Free product was observed in groundwater monitoring well MW-2 between 1993 and 1998, at thicknesses ranging from 2.60 feet (3/30/1994) to less than 0.01 feet (10/2/1997 to 7/21/1998). When free product was observed in the well, it was removed by bailer. Between 1993 and 1998, a cumulative total of 24.90 gallons of free product had been removed from the well (Alisto, 1998).

Free product was also observed in monitoring well MW-4 during the third quarter 2001 (0.03 ft), fourth quarter 2006 (0.11 ft), first quarter 2008 (0.01 ft), and third quarter 2008 (0.05 ft); and in EX-2 during the second quarter

2007 (0.01 ft). With the exception of 1.5 gallons of a free product/water mixture recovered from monitoring well MW-4 during the third quarter 2008 (BAI, 2008b), free product was not recovered from these wells when observed.

### **1.3 Sensitive Receptors**

2000 Potential Receptor Survey, Expanded Site Plan and Well Search: In October 2000, Alisto completed a potential receptor survey, prepared an expanded site plan with neighboring property parcel information and underground utilities mapped, and identified wells in the vicinity of the site. A review of the files from the California Department of Water Resources (DWR) was performed to identify all known wells within a one-half mile radius of the site. The results of the well search revealed that there were 17 wells other than the on-site monitoring wells. Of these, 11 were off-site monitoring wells; four were cathodic protection wells, one an industrial well, and one irrigation well for a nearby cemetery. No domestic/municipal water supply wells were identified from review of the DWR files (Alisto, 2000).

2010 Sensitive Receptor Survey: Delta Consultants (Delta) submitted a Sensitive Receptor Survey in October 2010. As part of that receptor survey, Delta conducted a records review (environmental database search), a well radius search, and a search for other sensitive receptors which have the potential to be affected by the petroleum hydrocarbon release at the site. Delta's review of the historical aerial photographs indicated that the site in 1939 was primarily used for agricultural purposes with small family residences. In general, the site was developed to the current conditions with the station building in 1974. The historical topographic maps support the indication of residential houses and agriculture in the site region as early as 1915 to 1948. The well search indicated that 10 wells were within a one-mile radius of the site. DWR records indicated the presence of 7 wells within a one-mile radius of the site. However, no records were found for the status of these wells as being active, abandoned or destroyed. The main surface water bodies were Lake Merritt located 4.8 miles northwest of the site and San Leandro Bay located 2.2 miles west of the site. Several churches, schools and day care centers were located within a one-mile radius of the site. Based on the above identified receptors distances from the site, directions from the site, and extent of hydrocarbon impact at the site, they were not anticipated to be affected by the petroleum hydrocarbon release at the site.

## **2.0 SITE GEOLOGY AND HYDROGEOLOGY**

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Fine-grained sediments including clays and silts to depths varying from 6 feet to 17 feet bgs underlay the site. Coarse-grained sediments consisting of sands, clayey sands, gravels, and clayey gravels underlay the fine-grained sediments to depths varying between approximately 10 feet to 35 feet bgs. The thickness of the coarse-grained sediments generally ranges between 10 feet to 20 feet across the site. There are lenses of fine-grained sediments in the coarse grained unit and lenses of sand in the fine grained unit consistent of alluvium. A geologic cross section is presented on **Figure 3**.

The most recent monitoring and sampling event was conducted at the site on August 14, 2013. The measured depth to groundwater ranged from 20.85 feet to 23.80 feet below top of casing (TOC). The groundwater flow direction and hydraulic gradient were variable across the site.

### 3.0 BORING ADVANCEMENT ACTIVITIES

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#### 3.1 Permitting, Utility Notification, and Borehole Clearance

Before commencing field activities Antea Group prepared a Health and Safety Plan in accordance with state and federal requirements for use during investigation activities. A drilling permit was obtained for the soil borings from the Alameda County Public Works Agency (**Appendix B**). Prior to drilling, Underground Service Alert (USA) was notified, as required by law, and a private utility locator was employed to clear each boring location for underground utilities. In addition, a hand auger was used to clear each boring location to a depth of 5 feet bgs, prior borehole advancement.

#### 3.2 Soil Borings

On April 6 through 16, 2015, Gregg Drilling and Testing Inc., (Gregg) under the supervision of an Antea Group geologist, advanced twenty-six (26) soil borings (SB-4 through SB-29) using a direct push drill rig. Soil samples were collected continuously beginning at a depth of approximately 5 feet bgs and logged using the Unified Soil Classification System (USCS) for lithologic interpretation and field screened for the presence of volatile organic compounds by headspace analysis using a pre-calibrated photoionization detector (PID). Soil samples from the borings retained for laboratory analysis were chosen based on PID readings, changes in lithology, groundwater elevation, and the total depth of the boring. Soil borings SB-4 through SB-29 were advanced to depths between 20 and 38 feet bgs, respectively. Subsequent to groundwater sampling, each boring was backfilled with neat cement. Boring logs are presented as **Appendix C**. A cross section depicting the lithology of the site from A to A' is presented on **Figure 3**.

#### 3.3 Soil Sampling Analysis

Soil samples retained for analysis were analyzed for the following constituents:

- TPHg, benzene, toluene, ethylbenzene, p/m-xylene, o-xylene (BTEX compounds), MTBE, ethyl tertiary-butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), TBA, ethanol, 1,2 dichloroethane (1,2-DCA) and 1,2 dibromoethane (EDB) by EPA Method 8260B;
- TPHd by EPA Method 8015M with silica gel treatment; and
- CAM 17 Metals by EPA Method 6010. (For disposal purposes)

Selected soil samples were also analyzed for naphthalene by EPA Method 8260B;

The samples were submitted with chain-of-custody (COC) documentation to Eurofins Calscience, Inc. (Calscience), a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory (Certification No. 2944CA). The complete analytical reports, COCs, and Antea Group’s laboratory data validation checklists are presented as **Appendix D**.

### 3.4 Grab-Groundwater Sampling

Grab-groundwater samples were collected from soil borings SB-4 through SB-28. Subsequent to the completion of each soil boring, a temporary casing was lowered into each boring and the groundwater was allowed to stabilize before the grab-groundwater samples were collected using a clean stainless steel bailer. Grab-groundwater samples retained for analysis were analyzed for the following constituents:

- TPHg, BTEX, MTBE, ETBE, DIPE, TAME, TBA, ethanol, 1,2-DCA and EDB by EPA Method 8260B; and
- TPHd by EPA Method 8015M with silica gel treatment.

The samples were submitted with chain-of-custody documentation to Calscience. The complete analytical reports, COCs, and Antea Group’s laboratory data validation checklists are presented as **Appendix D**.

### 3.5 Quality Assurance / Quality Control

Antea Group’s Quality Assurance / Quality Control (QA/QC) measures included a detailed QA/QC data validation check on the Calscience analytical report for the April 2015 site investigation. Antea Group’s laboratory data validation checklists, the Calscience analytical reports, and COCs are presented as **Appendix D**.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes –nine*
Are the data valid for their intended purpose?	Yes, the data are valid

- \* HD - The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
- \* B - Analyte was present in the associated method blank.
- \* 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 suspected matrix interference. The associated LCS recovery was in control.
- \* 4 - The MS/MSD RPD was out of control due to suspected matrix interference.
- \* 6 - Surrogate recovery below the acceptance limit.
- \* 7 - Surrogate recovery above the acceptance limit.
- \* ME -LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
- \* 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.

### 3.6 Disposal of Drill Cuttings and Wastewater

Drill cuttings generated during soil boring advancement activities were placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums. The soil was profiled based on the lab results from the

soil borings. The analytical reports, COCs and laboratory data validation checklists are presented as **Appendix D**. The generated waste has been removed from the site and disposed of at an approved waste facility.

## 4.0 RESULTS OF THE INVESTIGATION

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### 4.1 Soil Analytical Results

Analytical results from the soil samples collected during this investigation reported concentrations of TPHd with silica gel ranging from 5.2 mg/kg (SB-21d32) to 38,000 mg/kg (SB-27d19). However, the laboratory indicated that the “The chromatographic pattern was inconsistent with the profile of the reference fuel standard” for each TPHd result above the laboratory’s reporting limit. Concentrations of TPHg ranged from 0.50 mg/kg (SB-14d21) to 15,000 mg/kg (SB-27d19). Concentrations of benzene ranged from 0.0047 mg/kg (SB-27d5.5) to 290 mg/kg (SB-27d19). Concentrations of ethylbenzene ranged from 0.0063 mg/kg (SB-15d24) to 290 mg/kg (SB-27d19). Concentrations of toluene ranged from 0.0059 mg/kg (SB-15d16) to 710 mg/kg (SB-27d19). Concentrations of p/m-xylenes ranged from 0.0050 mg/kg (SB-20d5.5) to 1,100 mg/kg (SB-27d19). Concentrations of o-xylenes ranged from 0.0050 mg/kg (SB-20d16) to 400 mg/kg (SB-27d19). Concentrations of MTBE ranged from 0.0051 mg/kg (SB-13d22.5) to 11 mg/kg (SB-5d32.5). Concentrations of TBA ranged from 0.18 mg/kg (SB-13d22.5) to 420 mg/kg (SB-27d35). Concentrations of Antimony ranged from 0.73 mg/kg (SB-26d35) to 1.04 mg/kg (SB-26d35). Concentrations of Arsenic ranged from 0.927 mg/kg (SB-10d35) to 18.60 mg/kg (SB-6d32). Concentrations of Barium ranged from 12.0 mg/kg (SB-11d18) to 2,050 mg/kg (SB-28d20). Concentrations of Beryllium ranged from 0.247 mg/kg (SB-29d12) to 0.694 mg/kg (SB-22d15.5). Concentrations of Cadmium ranged from 0.507 mg/kg (SB-20d32) to 6.32 mg/kg (SB-28d20). Concentrations of Chromium ranged from 7.10 mg/kg (SB-11d18) to 56.7 mg/kg (SB-26d35). Concentrations of Cobalt ranged from 2.33 mg/kg (SB-10d35) to 118 mg/kg (SB-19d35). Concentrations of Copper ranged from 3.25 mg/kg (SB-11d18) to 117.0 mg/kg (SB-7d5.5). Concentrations of Lead ranged from 1.50 mg/kg (SB-11d18) to 111 mg/kg (SB-16d5.5). Concentrations of Mercury ranged from 0.0812 mg/kg (SB-22d19.5) to 0.640 mg/kg (SB-15d5.5). Concentrations of Molybdenum ranged from 0.255 mg/kg (SB-23d30.5) to 2.96 mg/kg (SB-6d32). Concentrations of Nickel ranged from 7.59 mg/kg (SB-11d18) to 260 mg/kg (SB-28d20). Concentrations of Selenium was only reported in SB-28d20 at a concentration of 5.45 mg/kg. Concentrations of Silver was only reported in SB-28d20 at a concentration of 1.69 mg/kg. Concentrations of Thallium was only reported in SB-28d20 at a concentration of 2.44 mg/kg. Concentrations of Vanadium ranged from 6.06 mg/kg (SB-11d18) to 267 mg/kg (SB-d5.5). Concentrations of Zinc ranged from 9.62 mg/kg (SB-11d18) to 130 mg/kg (SB-28d20). All other constituents analyzed for were below the laboratory’s indicated reporting limits. The soil analytical results are presented in **Table 1**, on **Table 1a**, and on **Figure 4**. A copy of the laboratory report, COC, and a laboratory validation checklist are presented as **Appendix D**.

## 4.2 Grab Groundwater Analytical Results

Analytical results from the grab groundwater samples collected during this investigation reported concentrations of TPHd with silica gel treatment ranging from 440 µg/L (SB-19GW) to 7,800,000 µg/L (SB-23GW). However, the laboratory indicated that the “The chromatographic pattern was inconsistent with the profile of the reference fuel standard” for each TPHd result above the laboratory's reporting limit. Concentrations of TPHg ranged from 99 µg/L (SB-18GW) to 2,300,000 µg/L (SB-26GW). Concentrations of benzene ranged from 0.70 µg/L (SB-19GW) to 33,000 µg/L (SB-23GW). Concentrations of Toluene ranged from 1.1 µg/L (SB-19GW) to 71,000 µg/L (SB-23GW). Concentrations of ethylbenzene ranged from 1.1 µg/L (SB-18GW) to 28,000 µg/L (SB-26GW). Concentrations of p/m-xylenes ranged from 1.6 µg/L (SB-4GW) to 91,000 µg/L (SB-26GW). Concentrations of o-xylenes ranged from 1.2 µg/L (SB-19GW) to 21,000 µg/L (SB-10GW). Concentrations of MTBE ranged from 1.2 µg/L (SB-4GW) to 16,000 µg/L (SB-23GW). TAME was reported at a concentration 2.3 µg/L (SB-15GW). Concentrations of TBA ranged from 16 µg/L (SB-19GW) to 9,800 µg/L (SB-27GW). All other constituents analyzed for were below the laboratory's indicated reporting limits. The grab groundwater analytical results are presented in **Table 2** and on **Figure 5**. A copy of the laboratory report, COC, and a laboratory validation sheet are presented as **Appendix D**.

## 5.0 DISCUSSION

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The main contaminant of concern at this site is benzene. The highest concentrations of benzene reported in soil were in soil borings SB-23, SB-27, and SB-29 at approximately 19 to 30 ft bgs, and the highest concentrations of benzene reported in groundwater were in soil borings SB-10, SB-23, and SB-27. These soil borings are in the vicinity of former product pipelines, pump islands, and USTs.

Based on the cross section A-A' (**Figure 3**), there is a fine grained unit (silts and clays) between the surface and the coarse grained unit where the highest concentrations of hydrocarbons were reported. Hydrocarbon concentrations reported in the fine grained unit were low to below the laboratories indicated reporting limits. Therefore, the impact probably did not move through the fine grain unit. It is more likely that the impact originated in the former tank pits which cut through the fine grained unit into the coarse grained unit. During this investigation groundwater stabilized between 10.6 and 25 feet bgs, historically groundwater on-site has been reported between 9.49 and 34.07 feet below top of casing (btoc). The variation in groundwater is similar to the depths where hydrocarbons were reported. This indicates that the impact probably originated in the former tank pits and spread out on the groundwater beneath the site, contaminating the soils in a smear zone between high and low groundwater elevations.

The historical soil concentration map presented as **Figure 4** shows TPHg and benzene concentrations for the recent soil borings and the previous CPT borings. In most cases the high concentrations of TPHg and benzene are not reported until at least 12 feet bgs and near the southwest property boundary concentrations of TPHg and benzene are not reported until at least 23 feet bgs. The dissolved phase TPHg isoconcentration map (**Figure 5**) shows the TPHg center of the plume in the groundwater is southwest of the older former UST pit under the pump islands.

There is also peak in TPHg concentrations in the newer former UST pit. MTBE was part of gasoline in California from 1992 through 2002. The presence of MTBE in the soil and groundwater beneath the site indicate that the release occurred at least 13 years ago. Ethanol was not above the reporting limit for any of the soil or groundwater samples. The lack of ethanol indicates that there has not been a release since 2003 when ethanol replaced MTBE in gasoline in California.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

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The purpose of this investigation was to delineate the potential areas of impact at the site in order to plan for a future excavation at the site to remove the contamination. Based on the results of the investigation the areas of impact at the site are too deep and to spread out to for excavation to be a viable option.

Antea Group recommends that a work plan be prepared proposing the replacement of the recently destroyed monitoring wells. Subsequent to the installation and sampling of the replacement monitoring wells, Antea Group recommends a corrective action plan (CAP) be proposed detailing remedial options for the site.

## 7.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:

  
Jonathan Fillingame  
Staff Geologist

Date: 7/22/15

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:

  
Dennis S. Dettloff, P.G.  
Senior Project Manager  
California Registered Professional Geologist No. 7480

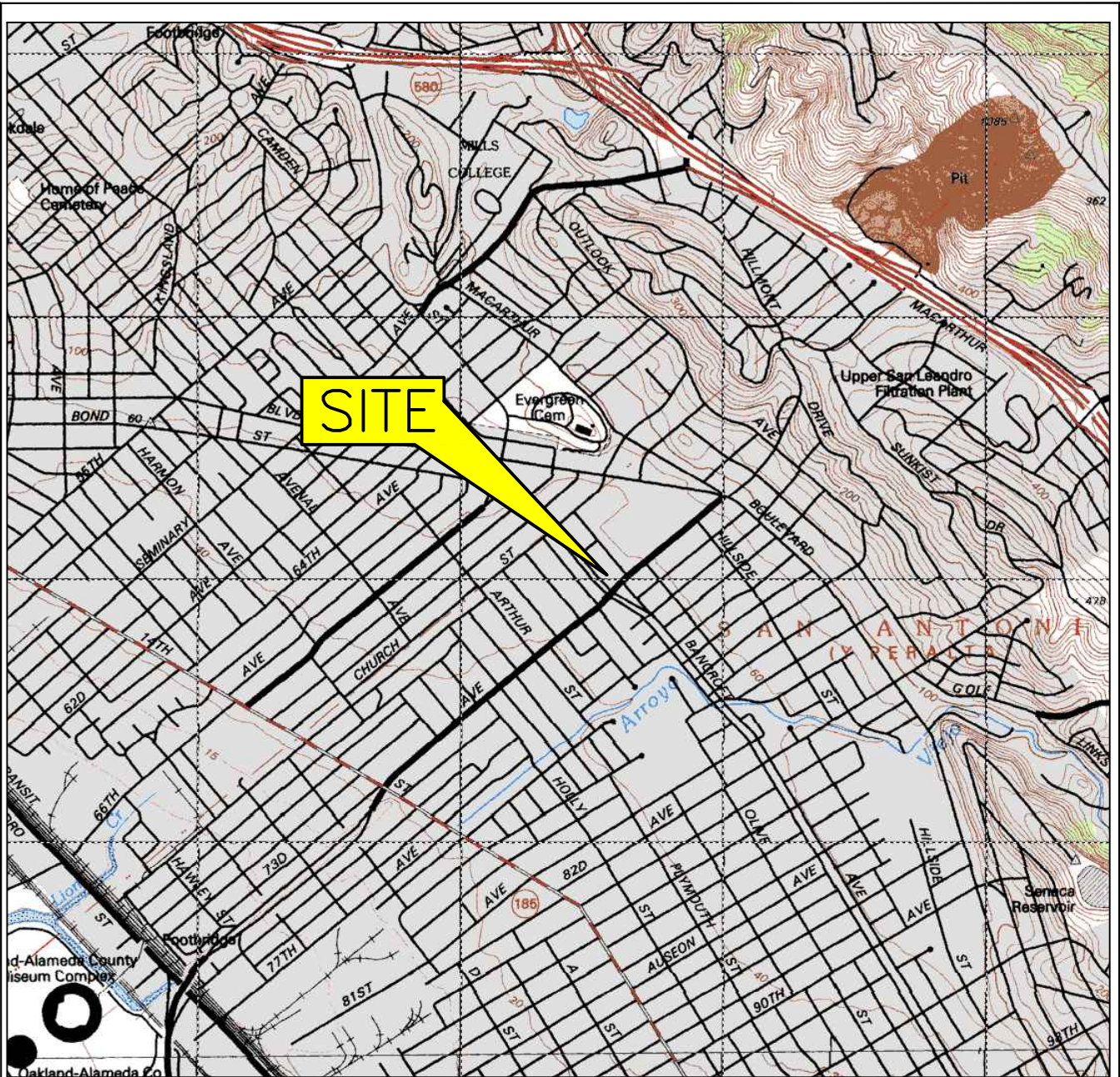


Date: 7/22/15



## **Figures**

- Figure 1      Site Location Map
- Figure 2      Site Plan
- Figure 3      Cross Section A-A'
- Figure 4      Historical Soil Concentration Map
- Figure 5      Dissolved Phase TPHg Isoconcentration Map – April 6-16, 2015



0 2000 FT



SCALE 1:24,000



QUADRANGLE LOCATION

**GENERAL NOTES:**

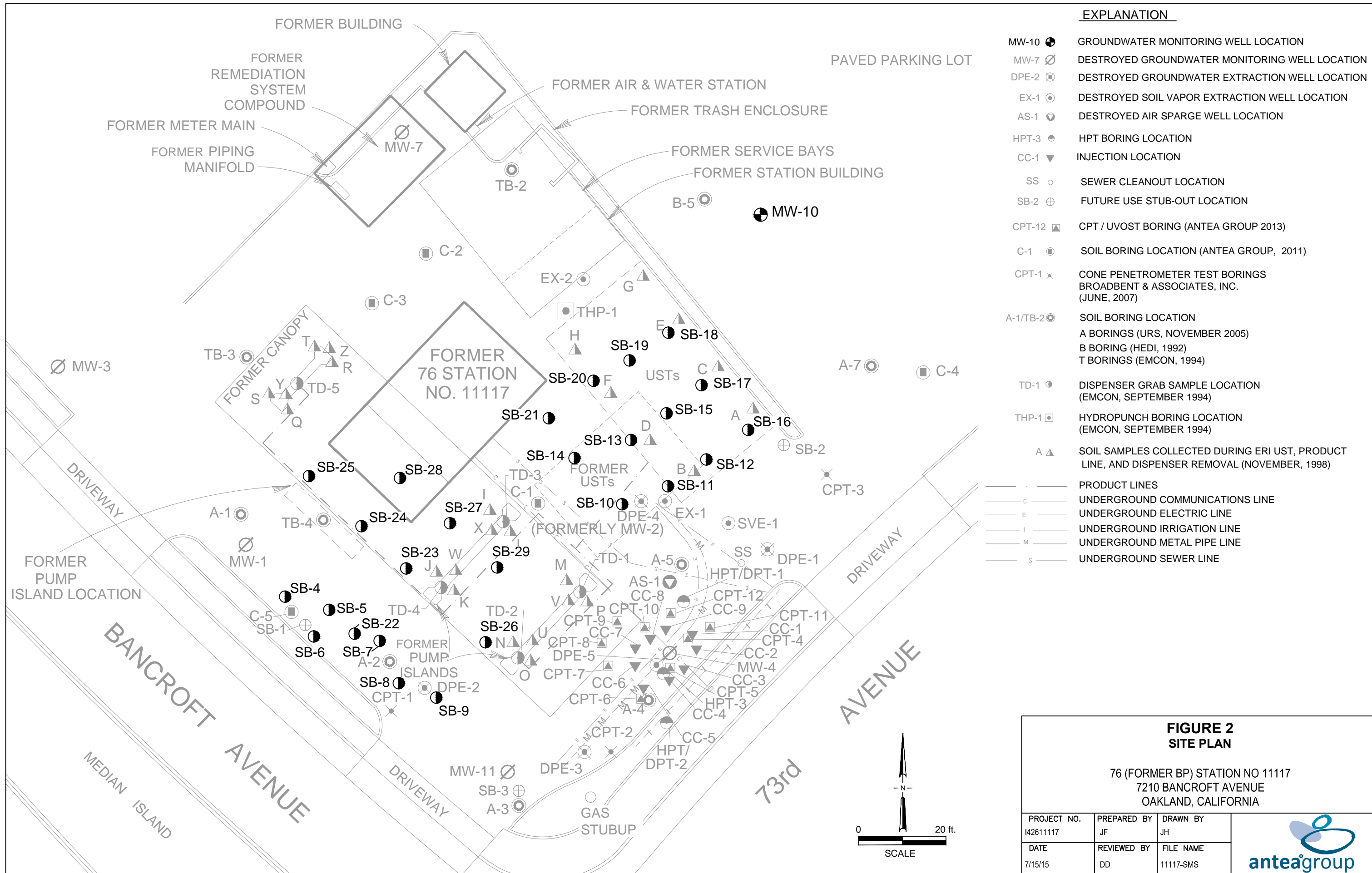
BASE MAP FROM USGS, 7.5 MINUTE  
TOPOGRAPHIC OAKLAND, CA. PHOTO REVISED 1980

**FIGURE 1  
SITE LOCATION MAP**

76 (FORMER BP) STATION NO 11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY DD	DRAWN BY JH
DATE 3/14/14	REVIEWED BY DU	FILE NAME 11117-TOPO






**FIGURE 2  
SITE PLAN**

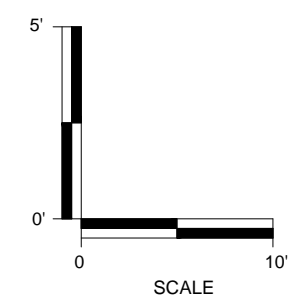
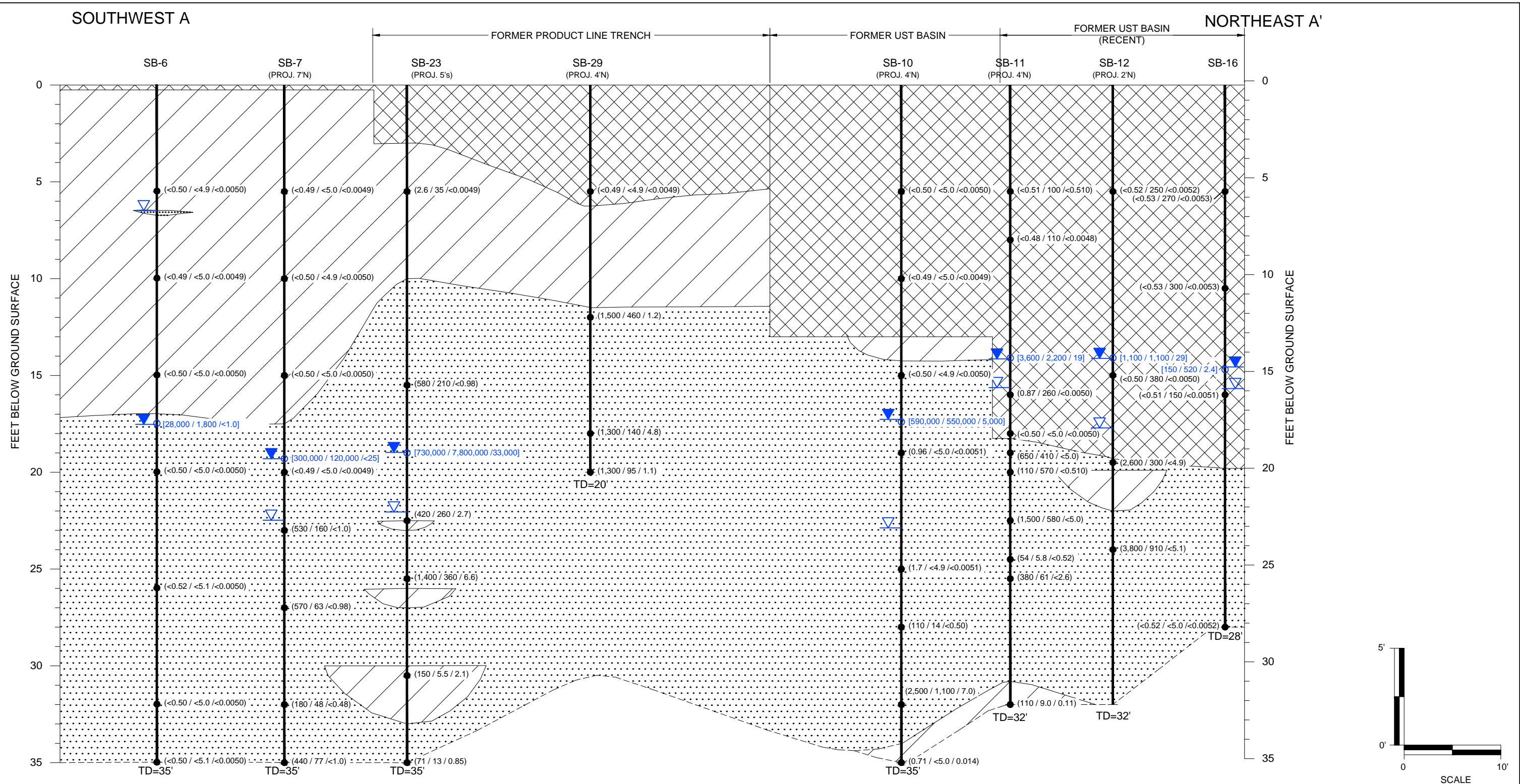
76 (FORMER BP) STATION NO 11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY JF	DRAWN BY JH
DATE 7/15/15	REVIEWED BY DD	FILE NAME 11117-SMS



SOUTHWEST A

NORTHEAST A'



**EXPLANATION**

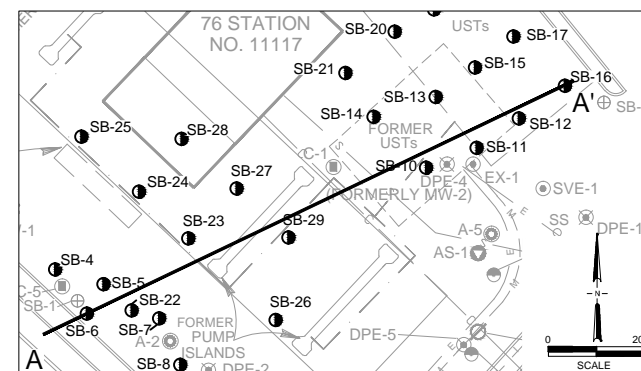
- SB-6 (PROJ.) BORING LOCATION PROJECTED DISTANCE (FEET)
- EXPLORATORY BORING
- SOIL ANALYTICAL SAMPLE IN mg/kg (TPHg / TPHd / BENZENE)
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER
- STATIC GROUNDWATER ELEVATION WITH ANALYTICAL SAMPLE IN µg/L (TPHg / TPHd / BENZENE)
- TD=25' TOTAL DEPTH OF BORING

- EXCAVATION / TRENCH BACKFILL
- LOW PERMEABILITY (ML, CL)
- MEDIUM AND HIGH PERMEABILITY (SM/SC, GM/GC, SP-GP, SW-GW)
- APPROXIMATE STRATIGRAPHIC BOUNDARY

**NOTES:**

- mg/kg = MILLIGRAMS PER KILOGRAM
- µg/L = MICROGRAMS PER LITER
- TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- < = LESS THAN LABORATORY INDICATED REPORTING LIMITS

STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

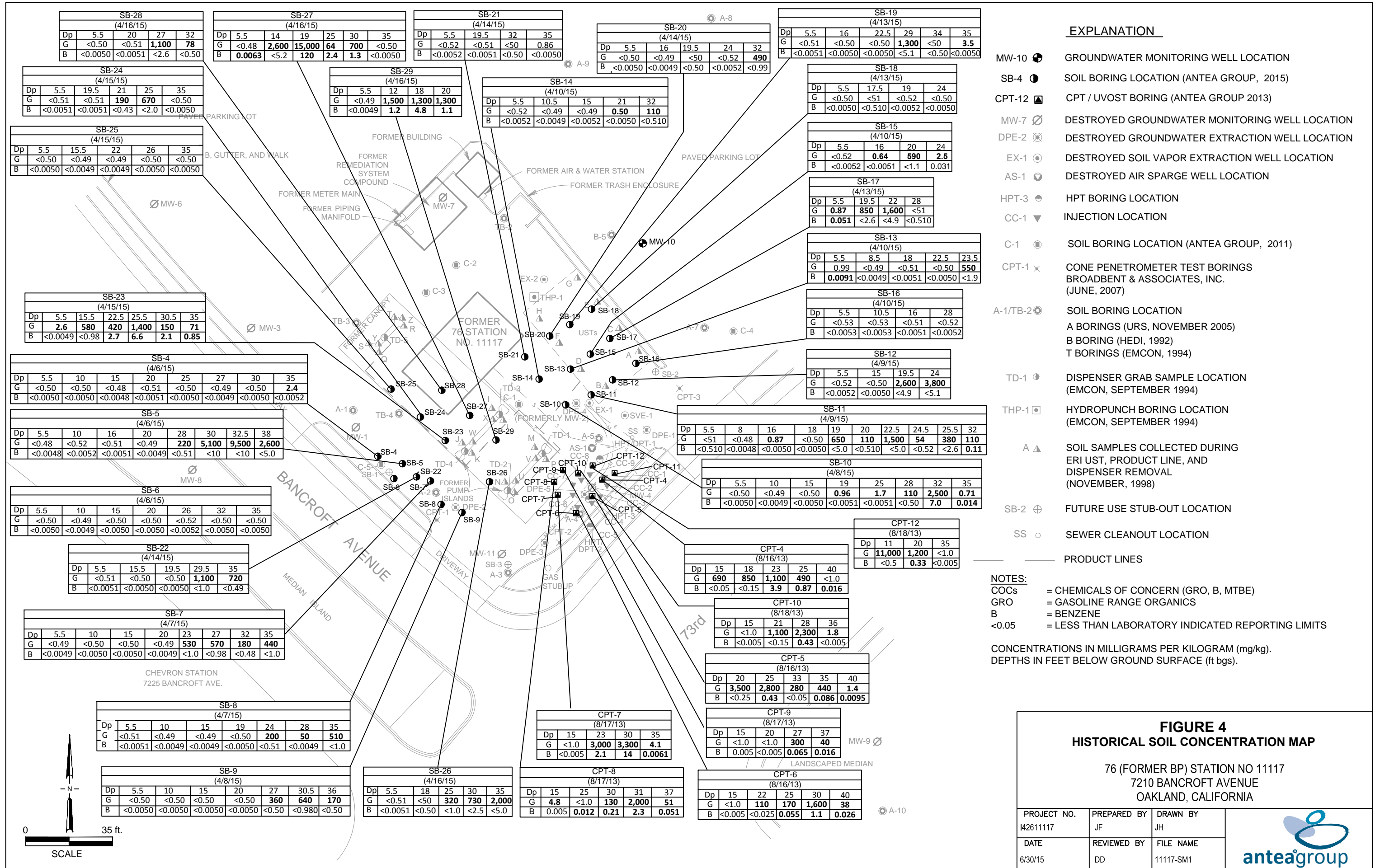


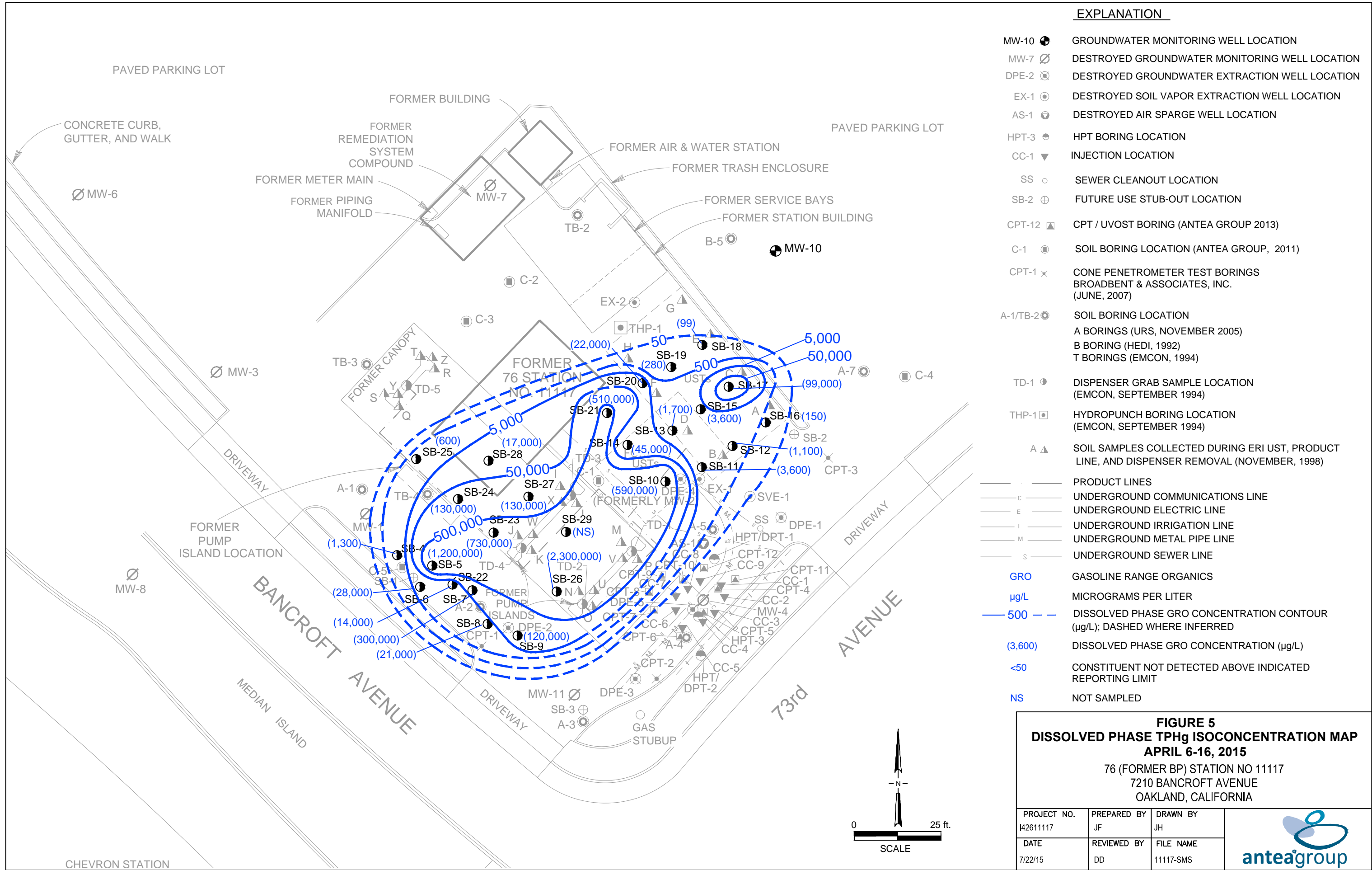
**FIGURE 3  
CROSS SECTION A - A'**

76 (FORMER BP) STATION NO 11117  
7210 BANCROFT AVENUE  
OAKLAND, CALIFORNIA

PROJECT NO. I42611117	PREPARED BY JF	DRAWN BY JH
DATE 7/22/15	REVIEWED BY DD	FILE NAME 11117-SMS





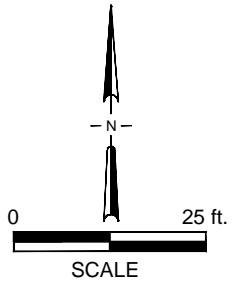


**EXPLANATION**

- MW-10 ● GROUNDWATER MONITORING WELL LOCATION
- MW-7 ∅ DESTROYED GROUNDWATER MONITORING WELL LOCATION
- DPE-2 ⊗ DESTROYED GROUNDWATER EXTRACTION WELL LOCATION
- EX-1 ⊙ DESTROYED SOIL VAPOR EXTRACTION WELL LOCATION
- AS-1 ⊖ DESTROYED AIR SPARGE WELL LOCATION
- HPT-3 ● HPT BORING LOCATION
- CC-1 ▼ INJECTION LOCATION
- SS ○ SEWER CLEANOUT LOCATION
- SB-2 ⊕ FUTURE USE STUB-OUT LOCATION
- CPT-12 ▲ CPT / UVOST BORING (ANTEA GROUP 2013)
- C-1 ● SOIL BORING LOCATION (ANTEA GROUP, 2011)
- CPT-1 × CONE PENETROMETER TEST BORINGS BROADBENT & ASSOCIATES, INC. (JUNE, 2007)
- A-1/TB-2 ● SOIL BORING LOCATION  
A BORINGS (URS, NOVEMBER 2005)  
B BORING (HEDI, 1992)  
T BORINGS (EMCON, 1994)
- TD-1 ● DISPENSER GRAB SAMPLE LOCATION (EMCON, SEPTEMBER 1994)
- THP-1 □ HYDROPUNCH BORING LOCATION (EMCON, SEPTEMBER 1994)
- A ▲ SOIL SAMPLES COLLECTED DURING ERI UST, PRODUCT LINE, AND DISPENSER REMOVAL (NOVEMBER, 1998)
- PRODUCT LINES
- C — UNDERGROUND COMMUNICATIONS LINE
- E — UNDERGROUND ELECTRIC LINE
- I — UNDERGROUND IRRIGATION LINE
- M — UNDERGROUND METAL PIPE LINE
- S — UNDERGROUND SEWER LINE
- GRO GASOLINE RANGE ORGANICS
- µg/L MICROGRAMS PER LITER
- 500 — DISSOLVED PHASE GRO CONCENTRATION CONTOUR (µg/L); DASHED WHERE INFERRED
- (3,600) DISSOLVED PHASE GRO CONCENTRATION (µg/L)
- <math><50</math> CONSTITUENT NOT DETECTED ABOVE INDICATED REPORTING LIMIT
- NS NOT SAMPLED

**FIGURE 5**  
**DISSOLVED PHASE TPHg ISOCONCENTRATION MAP**  
**APRIL 6-16, 2015**  
 76 (FORMER BP) STATION NO 11117  
 7210 BANCROFT AVENUE  
 OAKLAND, CALIFORNIA

PROJECT NO. 142611117	PREPARED BY JF	DRAWN BY JH	
DATE 7/22/15	REVIEWED BY DD	FILE NAME 11117-SMS	



CHEVRON STATION

## ***Tables***

Table 1	Soil Analytical Results
Table 1a	Additional Soil Analytical Results
Table 2	Groundwater Analytical Results

TABLE 1

**SOIL ANALYTICAL RESULTS**  
**76 (Former BP) Station No. 11117**  
**7210 Bancroft Avenue, Oakland, California**

Sample ID	Date	Sample Depth (feet)	TPH		BTEX					Fuel Oxygenates					Lead Scavengers		Naphthalene (mg/Kg)	
			TPHg (mg/Kg)	TPHd* (mg/Kg)	Benzene (mg/Kg)	Ethyl-benzene (mg/Kg)	Toluene (mg/Kg)	p/m-Xylenes (mg/Kg)	o-Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	Ethanol (mg/Kg)	EDB (mg/Kg)		1,2-DCA (mg/Kg)
SB-4d5.5	4/6/2015	5.5	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	<0.050
SB-4d10	4/6/2015	10	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	<0.050
SB-4d15	4/6/2015	15	<0.48	<4.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0096	<0.0096	<0.0096	<0.480	<0.0048	<0.0048	--
SB-4d20	4/6/2015	20	<0.51	<4.9	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.510	<0.0051	<0.0051	--
SB-4d25	4/6/2015	25	<0.50	<5.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-4d27	4/6/2015	27	<0.49	<4.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0097	<0.0097	<0.0097	<0.490	<0.0049	<0.0049	--
SB-4d30	4/6/2015	30	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-4d35	4/6/2015	35	<b>2.4</b>	<5.0	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.520	<0.0052	<0.0052	--
SB-5d5.5	4/6/2015	5.5	<0.48	<4.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0097	<0.0097	<0.0097	<0.480	<0.0048	<0.0048	--
SB-5d10	4/6/2015	10	<0.52	<5.0	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.520	<0.0052	<0.0052	--
SB-5d16	4/6/2015	16	<0.51	<5.1	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.510	<0.0051	<0.0051	--
SB-5d20	4/6/2015	20	<0.49	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.490	<40.009	<40.009	--
SB-5d28	4/6/2015	28	<b>220</b>	<b>27</b>	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<5.1	<1.0	<1.0	<1.0	<51	<0.51	<0.51	--
SB-5d30	4/6/2015	30	<b>5,100</b>	<b>3,000</b>	<10	<b>67</b>	<10	<b>250</b>	<b>69</b>	<10	<100	<20	<20	<20	<1000	<0.010	<0.010	--
SB-5d32.5	4/6/2015	32.5	<b>9,500</b>	<b>8,700</b>	<10	<b>82</b>	<10	<b>270</b>	<b>66</b>	<b>11</b>	<100	<21	<21	<21	<1000	<0.010	<0.010	--
SB-5d38	4/6/2015	38	<b>2,600</b>	<b>580</b>	<5.0	<b>14</b>	<5.0	<b>41</b>	<b>8.2</b>	<5.0	<50	<10	<10	<10	<500	<0.0050	<0.0050	--
SB-6d5.5	4/7/2015	5.5	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-6d10	4/7/2015	10	<0.49	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.490	<0.0049	<0.0049	--
SB-6d15	4/7/2015	15	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.500	<0.0050	<0.0050	--
SB-6d20	4/7/2015	20	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.500	<0.0050	<0.0050	--
SB-6d26	4/7/2015	26	<0.52	<5.1	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.520	<0.0052	<0.0052	--
SB-6d32	4/7/2015	32	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-6d35	4/7/2015	35	<0.50	<5.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-7d5.5	4/7/2015	5.5	<0.49	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0099	<0.0099	<0.0099	<0.490	<0.0049	<0.0049	--
SB-7d10	4/7/2015	10	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-7d15	4/7/2015	15	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.500	<0.0050	<0.0050	--
SB-7d20	4/7/2015	20	<0.49	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.490	<0.0049	<0.0049	--
SB-7d23	4/7/2015	23	<b>530</b>	<b>160</b>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--
SB-7d27	4/7/2015	27	<b>570</b>	<b>63</b>	<0.98	<b>1.5</b>	<0.98	<b>2.3</b>	<0.98	<0.98	<9.8	<2.0	<2.0	<2.0	<98	<0.98	<0.98	--
SB-7d32	4/7/2015	32	<b>180</b>	<b>48</b>	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<4.8	<96	<96	<96	<48	<0.48	<0.48	--
SB-7d35	4/7/2015	35	<b>440</b>	<b>77</b>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--
SB-8d5.5	4/7/2015	5.5	<0.51	<5.0	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-8d10	4/7/2015	10	<0.49	<5.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0097	<0.0097	<0.0097	<0.490	<0.0049	<0.0049	--
SB-8d15	4/7/2015	15	<0.49	<4.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.490	<0.0049	<0.0049	--
SB-8d19	4/7/2015	19	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.500	<0.0050	<0.0050	--
SB-8d24	4/7/2015	24	<b>200</b>	<b>41</b>	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<5.1	<1.0	<1.0	<1.0	<51	<0.51	<0.51	--
SB-8d28	4/7/2015	28	<b>50</b>	<b>7.2</b>	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0099	<0.0099	<0.0099	<0.490	<0.0049	<0.0049	--
SB-8d35	4/7/2015	35	<b>510</b>	<b>87</b>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--



TABLE 1

**SOIL ANALYTICAL RESULTS**  
**76 (Former BP) Station No. 11117**  
**7210 Bancroft Avenue, Oakland, California**

Sample ID	Date	Sample Depth (feet)	TPH		BTEX					Fuel Oxygenates					Lead Scavengers		Naphthalene (mg/Kg)	
			TPHg (mg/Kg)	TPHd* (mg/Kg)	Benzene (mg/Kg)	Ethyl-benzene (mg/Kg)	Toluene (mg/Kg)	p/m-Xylenes (mg/Kg)	o-Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	Ethanol (mg/Kg)	EDB (mg/Kg)		1,2-DCA (mg/Kg)
SB-9d5.5	4/8/2015	5.5	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-9d10	4/8/2015	10	<0.50	<b>35</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.50	<0.0050	<0.0050	--
SB-9d15	4/8/2015	15	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-9d20	4/8/2015	20	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-9d27	4/8/2015	27	<b>360</b>	<b>130</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-9d30.5	4/8/2015	30.5	<b>640</b>	<b>130</b>	<0.980	<0.980	<0.980	<0.980	<0.980	<0.980	<0.980	<2.0	<2.0	<2.0	<98	<0.980	<0.980	--
SB-9d36	4/8/2015	36	<b>170</b>	<b>120</b>	<0.50	<b>0.89</b>	<0.50	<b>2.1</b>	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-10d5.5	4/8/2015	5.5	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-10d10	4/8/2015	10	<0.49	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0099	<0.0099	<0.0099	<0.49	<0.0049	<0.0049	--
SB-10d15	4/8/2015	15	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-10d19	4/8/2015	19	<b>0.96</b>	<5.0	<0.0051	<b>0.027</b>	<0.0051	<b>0.034</b>	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-10d25	4/8/2015	25	<b>1.7</b>	<4.9	<0.0051	<b>0.052</b>	<0.0051	<b>0.067</b>	<0.0051	<b>0.0069</b>	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-10d28	4/8/2015	28	<b>110</b>	<b>14</b>	<0.50	<b>1.2</b>	<0.50	<b>4.8</b>	<b>1.3</b>	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-10d32	4/8/2015	32	<b>2,500</b>	<b>1,100</b>	<b>7.0</b>	<b>33</b>	<b>59</b>	<b>150</b>	<b>56</b>	<b>0.610</b>	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-10d35	4/8/2015	35	<b>0.71</b>	<5.0	<b>0.014</b>	<b>0.0085</b>	<b>0.013</b>	<b>0.031</b>	<b>0.013</b>	<b>0.850</b>	<b>0.320</b>	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-11d5.5	4/9/2015	5.5	<51	<b>100</b>	<0.510	<0.510	<0.510	<0.510	<0.510	<0.510	<51	<1.0	<1.0	<1.0	<51	<0.510	<0.510	<5.1
SB-11d8	4/9/2015	8	<0.48	<b>110</b>	<0.0048	<0.0048	<b>13</b>	<b>9.8</b>	<0.0048	<0.0048	<0.0048	<0.0097	<0.0097	<0.0097	<0.48	<0.0048	<0.0048	<0.0048
SB-11d16	4/9/2015	16	<b>0.87</b>	<b>260</b>	<0.0050	<0.0050	<0.0050	<b>0.013</b>	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-11d18	4/9/2015	18	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-11d19	4/9/2015	19	<b>650</b>	<b>410</b>	<5.0	<b>8.7</b>	<5.0	<b>43</b>	<b>11</b>	<5.0	<50	<9.9	<9.9	<9.9	<500	<5.0	<5.0	--
SB-11d20	4/9/2015	20	<b>110</b>	<b>570</b>	<0.510	<b>1.9</b>	<b>0.69</b>	<b>8.6</b>	<b>3.0</b>	<0.51	<5.1	<1.0	<1.0	<1.0	<51	<0.510	<0.510	--
SB-11d22.5	4/9/2015	22.5	<b>1,500</b>	<b>580</b>	<5.0	<b>24</b>	<b>12</b>	<b>110</b>	<b>39</b>	<5.0	<50	<10	<10	<10	<500	<5.0	<5.0	--
SB-11d24.5	4/9/2015	24.5	<b>54</b>	<b>5.8</b>	<0.52	<b>0.70</b>	<0.52	<b>3.5</b>	<b>1.3</b>	<0.52	<5.2	<1.0	<1.0	<1.0	<52	<0.52	<0.52	--
SB-11d25.5	4/9/2015	25.5	<b>380</b>	<b>61</b>	<2.6	<b>4.9</b>	<2.6	<b>24</b>	<b>8.3</b>	<2.6	<26	<5.1	<5.1	<5.1	<260	<2.6	<2.6	--
SB-11d32	4/9/2015	32	<b>110</b>	<b>9.0</b>	<b>0.11</b>	<b>0.093</b>	<b>0.15</b>	<b>0.38</b>	<b>0.18</b>	<b>0.85</b>	<b>0.18</b>	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-12d5.5	4/9/2015	5.5	<0.52	<b>250</b>	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-12d15	4/9/2015	15	<0.50	<b>380</b>	<0.0050	<0.0050	<0.0050	<b>0.0085</b>	<b>0.0056</b>	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-12d19.5	4/9/2015	19.5	<b>2,600</b>	<b>300</b>	<4.9	<b>30</b>	<b>12</b>	<b>130</b>	<b>45</b>	<4.9	<49	<9.8	<9.8	<9.8	<490	<4.9	<4.9	--
SB-12d24	4/9/2015	24	<b>3,800</b>	<b>910</b>	<5.1	<b>53</b>	<b>64</b>	<b>240</b>	<b>92</b>	<5.1	<51	<10	<10	<10	<510	<5.1	<5.1	--
SB-13d5.5	4/9/2015	5.5	<b>0.99</b>	<b>250</b>	<b>0.0091</b>	<0.0051	<b>0.0069</b>	<0.0051	<0.0051	<b>0.034</b>	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-13d8.5	4/9/2015	8.5	<0.49	<b>460</b>	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.49	<0.0049	<0.0049	--
SB-13d18	4/9/2015	18	<0.51	<4.9	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-13d22.5	4/9/2015	22.5	<0.50	<b>13</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.0051</b>	<b>0.18</b>	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-13d23.5	4/9/2015	23.5	<b>550</b>	<b>150</b>	<1.9	<b>2.0</b>	<1.9	<b>4.1</b>	<1.9	<1.9	<19	<3.8	<3.8	<3.8	<190	<1.9	<1.9	--
SB-14d5.5	4/10/2015	5.5	<0.52	<b>93</b>	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-14d10.5	4/10/2015	10.5	<0.49	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0097	<0.0097	<0.0097	<0.49	<0.0049	<0.0049	--
SB-14d15	4/10/2015	15	<0.49	<4.9	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-14d21	4/10/2015	21	<b>0.50</b>	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.50	<0.0050	<0.0050	--
SB-14d32	4/10/2015	32	<b>110</b>	<b>23</b>	<0.510	<b>1.0</b>	<b>0.55</b>	<b>4.3</b>	<b>1.4</b>	<0.510	<5.1	<1.0	<1.0	<1.0	<51	<0.510	<0.510	--

**TABLE 1**

**SOIL ANALYTICAL RESULTS**  
**76 (Former BP) Station No. 11117**  
**7210 Bancroft Avenue, Oakland, California**

Sample ID	Date	Sample Depth (feet)	TPH		BTEX					Fuel Oxygenates					Lead Scavengers		Naphthalene (mg/Kg)	
			TPHg (mg/Kg)	TPHd* (mg/Kg)	Benzene (mg/Kg)	Ethyl-benzene (mg/Kg)	Toluene (mg/Kg)	p/m-Xylenes (mg/Kg)	o-Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	Ethanol (mg/Kg)	EDB (mg/Kg)		1,2-DCA (mg/Kg)
SB-15d5.5	4/10/2015	5.5	<0.52	<b>180</b>	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-15d16	4/10/2015	16	<b>0.64</b>	<5.0	<0.0051	<b>0.011</b>	<b>0.0059</b>	<b>0.056</b>	<b>0.028</b>	<b>0.012</b>	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-15d20	4/10/2015	20	<b>590</b>	<b>80</b>	<1.1	<b>12</b>	<b>18</b>	<b>54</b>	<b>22</b>	<1.1	<11	<2.1	<2.1	<2.1	<110	<1.1	<1.1	--
SB-15d24	4/10/2015	24	<b>2.5</b>	<4.9	<b>0.031</b>	<b>0.0470</b>	<b>0.160</b>	<b>0.220</b>	<b>0.120</b>	<b>0.170</b>	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-16d5.5	4/10/2015	5.5	<0.53	<b>270</b>	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.011	<0.011	<0.011	<0.53	<0.0053	<0.0053	--
SB-16d10.5	4/10/2015	10.5	<0.53	<b>300</b>	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.053	<0.011	<0.011	<0.011	<0.53	<0.0053	<0.0053	--
SB-16d16	4/10/2015	16	<0.51	<b>150</b>	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-16d28	4/10/2015	28	<0.52	<5.0	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-17d5.5	4/13/2015	5.5	<b>0.87</b>	<b>250</b>	<b>0.051</b>	<0.0051	<b>0.038</b>	<b>0.0099</b>	<0.0051	<b>0.0096</b>	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-17d19.5	4/13/2015	19.5	<b>850</b>	<b>73</b>	<2.6	<b>16</b>	<b>14</b>	<b>72</b>	<b>26</b>	<2.6	<26	<5.1	<5.1	<5.1	<260	<2.6	<2.6	--
SB-17d22	4/13/2015	22	<b>1,600</b>	<b>130</b>	<4.9	<b>31</b>	<b>22</b>	<b>140</b>	<b>56</b>	<4.9	<49	<9.9	<9.9	<9.9	<490	<4.9	<4.9	--
SB-17d28	4/13/2015	28	<51	<4.9	<0.510	<0.510	<0.510	<b>0.72</b>	<0.510	<0.510	<5.1	<1.0	<1.0	<1.0	<51	<0.510	<0.510	--
SB-18d5.5	4/13/2015	5.5	<0.50	<b>110</b>	<0.0050	<0.0050	<0.0050	<b>0.0053</b>	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-18d17.5	4/13/2015	17.5	<51	<b>29</b>	<0.510	<0.510	<0.510	<0.510	<0.510	<0.510	<5.1	<1.0	<1.0	<1.0	<51	<0.510	<0.510	--
SB-18d19	4/13/2015	19	<0.52	<4.9	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-18d24	4/13/2015	24	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-19d5.5	4/13/2015	5.5	<0.51	<b>240</b>	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-19d16	4/13/2015	16	<0.50	<b>23</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.0069</b>	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-19d22.5	4/13/2015	22.5	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-19d29	4/13/2015	29	<b>1,300</b>	<b>350</b>	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<10	<10	<10	<510	<5.1	<5.1	--
SB-19d34	4/13/2015	34	<500	<b>18</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-19d35	4/13/2015	35	<b>3.5</b>	<4.9	<0.0050	<b>0.0062</b>	<b>0.0085</b>	<b>0.024</b>	<b>0.0091</b>	<b>0.85</b>	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-20d5.5	4/14/2015	5.5	<0.50	<b>49</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.50	<0.0050	<0.0050	--
SB-20d16	4/14/2015	16	<0.49	<b>53</b>	<0.0049	<0.0049	<0.0049	<b>0.015</b>	<b>0.0050</b>	<0.0049	<0.049	<0.0097	<0.0097	<0.0097	<0.49	<0.0049	<0.0049	--
SB-20d19.5	4/14/2015	19.5	<50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-20d24	4/14/2015	24	<0.52	<5.1	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-20d32	4/14/2015	32	<b>490</b>	<b>41</b>	<0.99	<b>1.1</b>	<0.99	<b>2.8</b>	<0.99	<0.99	<9.9	<2.0	<2.0	<2.0	<99	<0.99	<0.99	--
SB-21d5.5	4/14/2015	5.5	<0.52	<4.9	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.52	<0.0052	<0.0052	--
SB-21d19.5	4/14/2015	19.5	<0.51	<4.9	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-21d32	4/14/2015	32	<50	<b>5.2</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.99	<0.99	<0.99	<50	<0.50	<0.50	--
SB-21d35	4/14/2015	35	<b>0.86</b>	<4.9	<0.0050	<b>0.0089</b>	<0.0050	<b>0.012</b>	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.50	<0.0050	<0.0050	--
SB-22d5.5	4/14/2015	5.5	<0.51	<4.9	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.51	<0.0051	<0.0051	--
SB-22d15.5	4/14/2015	15.5	<0.50	<5.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-22d19.5	4/14/2015	19.5	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-22d29.5	4/14/2015	29.5	<b>1,100</b>	<b>950</b>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--
SB-22d35	4/14/2015	35	<b>720</b>	<b>220</b>	<0.49	<b>10</b>	<0.49	<b>36</b>	<b>14</b>	<0.49	<4.9	<0.99	<0.99	<0.99	<49	<0.49	<0.49	--

TABLE 1

SOIL ANALYTICAL RESULTS  
76 (Former BP) Station No. 11117  
7210 Bancroft Avenue, Oakland, California

Sample ID	Date	Sample Depth (feet)	TPH		BTEX					Fuel Oxygenates					Lead Scavengers		Naphthalene (mg/Kg)	
			TPHg (mg/Kg)	TPHd* (mg/Kg)	Benzene (mg/Kg)	Ethyl-benzene (mg/Kg)	Toluene (mg/Kg)	p/m-Xylenes (mg/Kg)	o-Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	DIPE (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	Ethanol (mg/Kg)	EDB (mg/Kg)		1,2-DCA (mg/Kg)
SB-23d5.5	4/15/2015	5.5	2.6	35	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.013	<0.049	<0.0098	<0.0098	<0.0098	<0.49	<0.0049	<0.0049	--
SB-23d15.5	4/15/2015	15.5	580	210	<0.98	8.3	<0.98	23	2.5	<0.98	<9.8	<2.0	<2.0	<2.0	<98	<0.98	<0.98	--
SB-23d22.5	4/15/2015	22.5	420	260	2.7	8.4	19	32	12	1.3	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--
SB-23d25.5	4/15/2015	25.5	1,400	360	6.6	30	45	110	42	<2.0	<20	<4.0	<4.0	<4.0	<200	<2.0	<2.0	--
SB-23d30.5	4/15/2015	30.5	150	5.5	2.1	2.3	6.1	8.4	3.5	3.0	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-23d35	4/15/2015	35	71	13	0.85	1.1	3.3	4.1	1.6	<0.50	<5.0	<0.99	<0.99	<0.99	<50	<0.50	<0.50	--
SB-24d5.5	4/15/2015	5.5	<0.51	7.9	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.0010	<0.0010	<0.0010	<0.510	<0.0051	<0.0051	--
SB-24d19.5	4/15/2015	19.5	<0.51	<5.0	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.0010	<0.0010	<0.0010	<0.510	<0.0051	<0.0051	--
SB-24d21	4/15/2015	21	190	18	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<4.3	<0.85	<0.85	<0.85	<43	<0.43	<0.43	--
SB-24d25	4/15/2015	25	670	31	<2.0	7.3	<2.0	26	12	<2.0	<20	<4.1	<4.1	<4.1	<200	<2.0	<2.0	--
SB-24d35	4/15/2015	35	<0.50	<5.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-25d5.5	4/15/2015	5.5	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.50	<0.0050	<0.0050	--
SB-25d15.5	4/15/2015	15.5	<0.49	<4.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.49	<0.0049	<0.0049	--
SB-25d22	4/15/2015	22	<0.49	<4.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0097	<0.0097	<0.0097	<0.49	<0.0049	<0.0049	--
SB-25d26	4/15/2015	26	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-25d35	4/15/2015	35	<0.50	<4.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-26d5.5	4/16/2015	5.5	<0.51	<5.0	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.0010	<0.0010	<0.0010	<0.510	<0.0051	<0.0051	--
SB-26d18	4/16/2015	18	<50	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-26d25	4/16/2015	25	320	60	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--
SB-26d30	4/16/2015	30	730	340	<2.5	6.4	<2.5	9.8	<2.5	<2.5	<25	<5.0	<5.0	<5.0	<250	<2.5	<2.5	--
SB-26d35	4/16/2015	35	2,000	320	<5.0	23	13	77	25	<5.0	<50	<10	<10	<10	<500	<5.0	<5.0	--
SB-27d5.5	4/16/2015	5.5	<0.48	<5.0	0.0063	<0.0048	0.0082	0.0060	<0.0048	0.0056	0.40	<0.0097	<0.0097	<0.0097	<0.48	<0.0048	<0.0048	--
SB-27d14	4/16/2015	14	2,600	870	<5.2	49	31	190	75	<5.2	<5.2	<10	<10	<10	<520	<5.2	<5.2	--
SB-27d19	4/16/2015	19	15,000	38,000	120	290	710	1,100	400	<26	<260	<51	<51	<51	<2600	<26	<26	--
SB-27d25	4/16/2015	25	64	5.9	2.4	1.3	5.3	5.3	2.1	2.2	<4.9	<0.99	<0.99	<0.99	<49	<0.49	<0.49	--
SB-27d30	4/16/2015	30	700	240	1.3	9.5	17	37	15	<1.3	<130	<2.5	<2.5	<2.5	<130	<1.3	<1.3	--
SB-27d35	4/16/2015	35	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	420	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-28d5.5	4/16/2015	5.5	<0.50	<5.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50	<0.0050	<0.0050	--
SB-28d20	4/16/2015	20	<0.51	<4.9	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.510	<0.0051	<0.0051	--
SB-28d27	4/16/2015	27	1,100	340	<2.6	14	<2.6	46	11	<2.6	<26	<5.2	<5.2	<5.2	<260	<2.6	<2.6	--
SB-28d32	4/16/2015	32	78	43	<0.50	0.54	<0.50	2.3	0.69	<0.50	<5.0	<1.0	<1.0	<1.0	<50	<0.50	<0.50	--
SB-29d5.5	4/16/2015	5.5	<0.49	<4.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.15	0.20	<0.0098	<0.0098	<0.0098	<0.49	<0.0049	<0.0049	--
SB-29d12	4/16/2015	12	1,500	460	1.2	15	<0.51	1.5	<0.51	0.85	<5.1	<1.0	<1.0	<1.0	<51	<0.51	<0.51	--
SB-29d18	4/16/2015	18	1,300	140	4.8	24	3.3	86	31	<2.5	<25	<5.0	<5.0	<5.0	<250	<2.5	<2.5	--
SB-29d20	4/16/2015	20	1,300	95	1.1	8.7	9.4	33	12	<1.0	<10	<2.0	<2.0	<2.0	<100	<1.0	<1.0	--

Notes:

TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015  
 TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015  
 BTEX = benzene, toluene, ethyl-benzene, total xylenes by EPA Method 8260B  
 MTBE = methyl tertiary-butyl ether by EPA Method 8260  
 TBA = Tertiary-butyl alcohol by EPA Method 8260  
 TAME = tert amyl methyl ether by EPA Method 8260

DIPE = Diisopropyl ether  
 ETBE = Ethyl-t-butyl ether  
 EDB = ethylene dibromide (aka 1,2-dibromoethane)  
 1,2-DCA = 1,2 dichloroethane  
 mg/Kg = milligrams per kilogram  
 -- = not analyzed

< = below the laboratory's indicated reportin limit  
**Bold** = above the laboratory's indicated reporting limit  
 \* = The chromatographic pattern was inconsistent with the profile of the reference fuel standard for each TPHd result above the laboratory's reporting limit

**TABLE 1a**

**ADDITIONAL SOIL ANALYTICAL RESULTS**

**76 (Former BP) Station No. 11117**

**7210 Bancroft Avenue, Oakland, California**

Sample ID	Date	Sample Depth (feet)	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)
SB-4d5.5	4/6/2015	5.5	<0.746	3.51	105	0.344	<0.498	34.6	24.0	40.3	9.33	0.157	<0.249	42.8	<0.746	<0.249	<0.746	162	25.3
SB-4d10	4/6/2015	10	<0.725	6.43	137	0.440	<0.483	40.1	13.9	27.0	8.22	0.154	<0.242	54.8	<0.725	<0.242	<0.725	57.7	46.4
SB-4d15	4/6/2015	15	<0.732	5.52	127	0.450	<0.488	38.6	5.61	17.4	5.17	<0.0820	<0.244	53.0	<0.732	<0.244	<0.732	32.1	39.2
SB-4d20	4/6/2015	20	<0.739	9.82	131	0.335	<0.493	29.1	8.08	15.0	6.98	<0.0833	<0.246	33.6	<0.739	<0.246	<0.739	40.2	48.5
SB-4d25	4/6/2015	25	<0.754	4.84	122	0.339	<0.503	25.9	9.54	14.1	4.71	0.0914	<0.251	31.5	<0.754	<0.251	<0.754	36.2	39.3
SB-4d27	4/6/2015	27	<0.735	3.91	124	0.344	<0.490	25.2	7.69	12.8	6.3	<0.0820	0.299	27.6	<0.735	<0.245	<0.735	26.2	42.8
SB-4d30	4/6/2015	30	<0.761	4.91	123	0.326	<0.508	30.8	7.48	14.7	5.78	<0.0806	0.351	31.4	<0.761	<0.254	<0.761	35.3	44.8
SB-4d35	4/6/2015	35	<0.739	7.71	109	<0.246	<0.493	28.5	8.46	14.3	5.28	<0.0806	0.504	29.2	<0.739	<0.246	<0.739	30.1	33.4
SB-5d5.5	4/6/2015	5.5	<0.732	3.79	100	0.327	<0.488	32.5	18.3	41.7	4.34	0.177	<0.244	37.7	<0.732	<0.244	<0.732	162	26.6
SB-5d10	4/6/2015	10	<0.714	6.19	147	0.394	<0.476	38.6	25.3	23.3	8.77	<0.0806	<0.238	52.5	<0.714	<0.238	<0.714	61.7	35.9
SB-5d16	4/6/2015	16	<0.758	7.34	166	0.476	<0.505	41.6	10.3	24.0	5.64	0.112	0.278	50.1	<0.758	<0.253	<0.758	40.0	44.6
SB-5d20	4/6/2015	20	<0.754	5.30	173	0.356	<0.503	34.4	8.69	17.6	5.69	<0.0877	<0.251	38.0	<0.754	<0.251	<0.754	34.2	43.8
SB-5d28	4/6/2015	28	<0.739	9.64	136	0.380	<0.493	29.0	10.6	38.9	7.77	<0.0847	0.343	33.5	<0.739	<0.246	<0.739	47.1	91.2
SB-5d30	4/6/2015	30	<0.714	6.21	114	0.301	<0.476	31.8	8.22	13.2	7.40	<0.0806	0.297	29.7	<0.714	<0.238	<0.714	33.9	36.2
SB-5d32.5	4/6/2015	32.5	<0.732	6.45	142	0.323	<0.488	30.7	9.25	15.2	6.38	<0.0847	0.339	35.0	<0.732	<0.244	<0.732	37.3	42.5
SB-5d38	4/6/2015	38	<0.761	6.09	129	0.312	<0.508	30.8	8.96	16.2	6.57	<0.0877	0.852	36.2	<0.761	<0.254	<0.761	35.6	38.4
SB-6d5.5	4/7/2015	5.5	<0.758	4.94	142	0.369	<0.505	37.0	24.1	58.1	5.05	<0.0847	<0.253	51.0	<0.758	<0.253	<0.758	135	31.1
SB-6d10	4/7/2015	10	<0.725	4.32	121	0.346	<0.483	35.0	20.4	23.3	7.05	<0.0806	<0.242	41.9	<0.725	<0.242	<0.725	59.7	30.0
SB-6d15	4/7/2015	15	<0.721	6.27	111	0.416	<0.481	28.3	10.7	13.5	7.00	<0.0833	<0.240	39.0	<0.721	<0.240	<0.721	30.8	31.2
SB-6d20	4/7/2015	20	<0.732	7.28	176	0.463	<0.488	42.5	10.9	18.6	6.58	0.104	<0.244	48.7	<0.732	<0.244	<0.732	45.5	52.8
SB-6d26	4/7/2015	26	<0.728	5.70	99.3	0.343	<0.485	21.9	6.75	11.6	5.03	0.0968	0.437	26.8	<0.728	<0.243	<0.728	28.4	31.8
SB-6d32	4/7/2015	32	<0.746	18.60	117	0.259	<0.498	29.6	5.62	18.7	5.37	<0.0806	2.96	32.2	<0.746	<0.249	<0.746	30.0	34.4
SB-6d35	4/7/2015	35	<0.725	4.92	121	0.275	<0.483	28.2	10.1	12.5	6.17	<0.0862	0.366	34.2	<0.725	<0.242	<0.725	34.2	31.2
SB-7d5.5	4/7/2015	5.5	<0.743	5.14	74.7	0.428	<0.495	37.4	21.5	117.0	4.42	0.180	<0.248	43.2	<0.743	<0.248	<0.743	267	27.8
SB-7d10	4/7/2015	10	<0.718	6.20	122	0.421	<0.478	45.4	15.5	17.9	7.84	<0.0847	<0.239	47.9	<0.718	<0.239	<0.718	45.2	37.5
SB-7d15	4/7/2015	15	<0.725	6.50	128	0.508	<0.483	26.8	10.1	18.6	9.50	<0.0820	<0.242	44.7	<0.725	<0.242	<0.725	29.3	35.9
SB-7d20	4/7/2015	20	<0.743	5.25	161	0.310	<0.495	30.6	6.5	16.8	6.24	0.205	0.641	41.9	<0.743	<0.248	<0.743	30.1	33.4
SB-7d23	4/7/2015	23	<0.714	4.85	96.5	0.364	<0.476	21.6	7.53	13.8	7.26	<0.0862	<0.238	26.7	<0.714	<0.238	<0.714	27.5	34.7
SB-7d27	4/7/2015	27	<0.735	7.02	110	0.545	<0.490	34.5	6.98	22.4	10.1	0.159	0.823	35.0	<0.735	<0.245	<0.735	38.1	41.9
SB-7d32	4/7/2015	32	<0.746	5.66	121	0.332	<0.498	43.8	10.9	14.8	6.81	<0.0847	0.826	41.7	<0.746	<0.249	<0.746	36.8	36.0
SB-7d35	4/7/2015	35	<0.725	4.64	98.7	0.284	<0.483	26.0	9.55	12.6	6.03	<0.0833	0.313	30.5	<0.725	<0.242	<0.725	38.3	30.9
SB-8d5.5	4/7/2015	5.5	<0.746	3.09	79.2	0.310	<0.498	30.6	20.2	46.5	4.16	0.112	<0.249	41.5	<0.746	<0.249	<0.746	129	26.6
SB-8d10	4/7/2015	10	<0.761	6.75	126	0.480	<0.508	47.3	17.9	25.8	8.97	0.118	<0.254	56.0	<0.761	<0.254	<0.761	56.3	46.6
SB-8d15	4/7/2015	15	<0.739	5.48	105	0.423	<0.493	38.4	8.10	15.2	6.60	<0.0820	<0.246	44.2	<0.739	<0.246	<0.739	30.3	35.8
SB-8d19	4/7/2015	19	<0.721	7.63	179	0.521	<0.481	44.7	13.9	18.2	7.55	<0.0833	0.402	47.5	<0.721	<0.240	<0.721	95.5	46.1
SB-8d24	4/7/2015	24	<0.743	4.50	110	0.267	<0.495	20.3	9.93	11.3	4.75	<0.0806	<0.248	38.1	<0.743	<0.248	<0.743	33.3	49.5
SB-8d28	4/7/2015	28	<0.721	4.91	124	0.311	<0.481	30.1	8.66	15.3	5.43	<0.0847	0.370	29.8	<0.721	<0.240	<0.721	34.3	39.9
SB-8d35	4/7/2015	35	50	6.70	128	0.294	<0.483	24.8	9.16	13.1	6.32	<0.0833	0.355	33.9	50	<0.242	50	30.7	34.3





TABLE 1a

ADDITIONAL SOIL ANALYTICAL RESULTS

76 (Former BP) Station No. 11117

7210 Bancroft Avenue, Oakland, California

Sample ID	Date	Sample Depth (feet)	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)
SB-25d5.5	4/15/2015	5.5	<0.743	5.30	182	0.457	<0.495	45.5	22.7	29.8	7.92	0.151	<0.248	53.7	<0.743	<0.248	<0.743	94.1	34.8
SB-25d15.5	4/15/2015	15.5	<0.750	6.33	163	0.372	<0.500	35.5	10.3	17.6	6.62	<0.0862	<0.250	46.0	<0.750	<0.250	<0.750	38.4	50.7
SB-25d22	4/15/2015	22	<0.743	4.29	118	0.367	<0.495	29.9	10.8	15.1	5.66	<0.0833	0.530	41.4	<0.743	<0.248	<0.743	34.9	42.3
SB-25d26	4/15/2015	26	<0.777	7.50	157	0.352	<0.518	36.3	9.19	72.3	7.37	0.130	0.332	35.6	<0.777	<0.259	<0.777	35.8	47.2
SB-25d35	4/15/2015	35	<0.773	4.09	124	0.273	<0.515	28.2	8.49	12.7	4.70	0.108	0.262	35.4	<0.773	<0.258	<0.773	28.3	37.6
SB-26d5.5	4/16/2015	5.5	<0.754	5.83	105	0.309	<0.503	31.5	15.4	33.5	46.4	0.133	<0.251	41.5	<0.754	<0.251	<0.754	64.7	49.1
SB-26d18	4/16/2015	18	<0.732	5.92	158	0.370	<0.488	39.9	10.5	19.6	5.47	0.0839	<0.244	41.4	<0.732	<0.244	<0.732	46.9	39.1
SB-26d25	4/16/2015	25	<0.765	16.00	155	0.359	<0.510	37.4	8.29	19.2	6.68	<0.0833	1.20	35.5	<0.765	<0.255	<0.765	37.2	41.8
SB-26d30	4/16/2015	30	<0.732	7.02	139	0.350	<0.488	29.3	11.1	16.9	7.37	0.170	0.397	37.5	<0.732	<0.244	<0.732	37.2	41.6
SB-26d35	4/16/2015	35	1.04	5.50	134	0.261	<0.495	56.7	11.2	14.5	5.02	<0.0794	<0.248	52.3	<0.743	<0.248	<0.743	44.7	41.7
SB-27d5.5	4/16/2015	5.5	<0.750	4.50	110	0.268	<0.500	40.9	11.1	19.5	4.73	<0.0794	<0.250	32.8	<0.750	<0.250	<0.750	50.8	26.5
SB-27d14	4/16/2015	14	<0.746	4.67	122	0.320	<0.498	34.8	9.31	16.1	5.97	<0.0833	<0.249	36.6	<0.746	<0.249	<0.746	31.4	34.4
SB-27d19	4/16/2015	19	0.730	4.48	107	0.306	<0.481	21.0	7.78	15.8	7.24	<0.0806	0.306	29.3	<0.721	<0.240	<0.721	28.3	37.6
SB-27d25	4/16/2015	25	<0.743	5.71	114	0.341	<0.495	29.5	9.76	13.0	7.38	<0.0862	<0.248	31.7	<0.743	<0.248	<0.743	25.8	35.6
SB-27d30	4/16/2015	30	<0.773	5.63	121	0.269	<0.515	35.5	10.1	16.9	3.95	0.160	<0.258	38.0	<0.773	<0.258	<0.773	37.9	34.5
SB-27d35	4/16/2015	35	<0.750	4.33	121	<0.250	<0.500	23.1	7.33	10.8	3.97	<0.0820	<0.250	28.2	<0.750	<0.250	<0.750	27.4	31.3
SB-28d5.5	4/16/2015	5.5	<0.758	4.95	95.1	0.321	<0.505	40.1	9.39	19.9	16.5	0.0878	<0.253	39.0	<0.758	<0.253	<0.750	49.4	33.0
SB-28d20	4/16/2015	20	<0.754	4.37	2,050	0.360	6.32	29.2	14.1	18.0	8.42	0.0854	<0.251	260	5.45	1.69	2.44	43.8	130
SB-28d27	4/16/2015	27	<0.750	5.64	129	0.322	<0.500	31.9	11.1	16.4	6.00	<0.010	<0.010	<0.010	<0.750	<0.250	<0.750	34.8	34.9
SB-28d32	4/16/2015	32	<0.750	6.03	194	0.399	<0.500	40.8	10.7	20.4	7.55	<0.0862	<0.250	48.7	<0.750	<0.250	<0.750	35.8	53.4
SB-29d5.5	4/16/2015	5.5	<0.735	7.20	76.5	0.248	<0.490	29.6	9.64	26.9	25.2	0.314	<0.245	39.5	<0.735	<0.245	<0.735	51.5	75.3
SB-29d12	4/16/2015	12	<0.735	5.33	76.8	0.247	<0.490	37.1	14.1	15.3	15.6	<0.0806	<0.245	54.0	<0.735	<0.245	<0.735	42.3	38.0
SB-29d18	4/16/2015	18	<0.735	5.35	121	0.302	<0.490	23.4	8.20	15.8	14.5	<0.0794	0.312	35.6	<0.735	<0.245	<0.735	32.4	44.7
SB-29d20	4/16/2015	20	<0.743	5.06	126	0.250	<0.495	38.2	7.48	12.4	5.79	<0.0820	1.24	30.7	<0.743	<0.248	<0.743	29.7	43.4

Notes:

mg/kg = milligrams per kilogram

TABLE 2

GRAB GROUNDWATER ANALYTICAL RESULTS

76 (Former BP) Station No. 11117

7210 Bancroft Avenue, Oakland, California

Sample ID	Date	Sample Depth (feet)	TPH		Benzene (ug/L)	Toluene (ug/L)	BTEX			Fuel Oxygenates					Lead Scavengers		
			TPHd* (ug/L)	TPHg (ug/L)			Ethyl-benzene (ug/L)	p/m-Xylenes (ug/L)	o-Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	EDB (ug/L)	1,2-DCA (ug/L)
SB-4GW	4/6/2015	17.8	1,000	1,300	<0.50	<1.0	6.5	1.6	<1.0	1.2	<2.0	<2.0	<2.0	<10	<100	<1.0	<0.50
SB-5GW	4/6/2015	18	4,200,000	1,200,000	<50	270	14,000	37,000	11,000	<100	<200	<200	<200	<1,000	<10,000	<100	<50
SB-6GW	4/7/2015	17.5	1,800	28,000	<1.0	<2.0	<2.0	6.1	<2.0	<2.0	<4.0	<4.0	<4.0	<20	<200	<2.0	<1.0
SB-7GW	4/7/2015	19.3	120,000	300,000	<25	<50	3,500	9,900	3,900	<50	<100	<100	<100	<500	<5,000	<50	<25
SB-8GW	4/7/2015	12.7	7,400	21,000	<2.5	<5.0	170	100	14	<5.0	<10	<10	<10	<50	<500	<5.0	<2.5
SB-9GW	4/8/2015	10.6	16,000	120,000	<10	<20	700	1,100	120	<20	<40	<40	<40	<200	<2,000	<20	<10
SB-10GW	4/8/2015	17.4	550,000	590,000	5,000	20,000	14,000	52,000	21,000	4,800	<400	<400	<400	<2,000	<20,000	<200	<100
SB-11GW	4/9/2015	14.1	2,200	3,600	19	60	82	330	140	55	<5.0	<5.0	<5.0	95	<250	<2.5	<1.2
SB-12GW	4/9/2015	14.1	1,100	1,100	29	18	18	53	34	75	<10	<10	<10	88	<500	<5.0	<2.5
SB-13GW	4/9/2015	14.2	870	1,700	55	37	41	65	19	36	<2.0	<2.0	<2.0	54	<100	<1.0	<0.50
SB-14GW	4/10/2015	18.7	17,000	45,000	2,800	2,800	2,900	5,500	2,100	230	<100	<100	<100	<500	<5,000	<50	<25
SB-15GW	4/10/2015	14.6	700	3,600	62	180	86	290	150	63	<2.0	<2.0	2.3	75	<100	<1.0	<0.50
SB-16GW	4/10/2015	14.7	520	150	2.4	1.4	1.4	3.6	3.0	14	<2.0	<2.0	<2.0	47	<100	<1.0	<0.50
SB-17GW	4/13/2015	16	71,000	99,000	1,600	7,500	3,200	14,000	5,800	110	<200	<200	<200	<1,000	<10,000	<100	<50
SB-18GW	4/13/2015	17	680	99	2.2	1.7	1.1	3.9	2.7	12	<2.0	<2.0	<2.0	39	<100	<1.0	<0.50
SB-19GW	4/13/2015	17	440	280	0.70	1.1	<1.0	2.2	1.2	7.6	<2.0	<2.0	<2.0	16	<100	<1.0	<0.50
SB-20GW	4/14/2015	16	25,000	22,000	<10	<20	170	620	<20	<20	<40	<40	<40	<200	<2,000	<20	<10
SB-21GW	4/14/2015	23	530,000	510,000	320	4,800	12,000	49,000	18,000	370	<500	<500	<500	<2,500	<25,000	<250	<120
SB-22GW	4/14/2015	23	51,000	14,000	11	<10	160	52	18	<10	<20	<20	<20	<100	<1,000	<10	<5.0
SB-23GW	4/15/2015	19	7,800,000	730,000	33,000	71,000	9,900	41,000	15,000	16,000	<2,000	<2,000	<2,000	<10,000	<100,000	<1,000	<500
SB-24GW	4/15/2015	25	44,000	130,000	3,000	1,900	2,800	8,800	4,500	1,600	<100	<100	<100	2,500	<5,000	<50	<25
SB-25GW	4/15/2015	18	570	600	39	51	13	49	22	6.8	<2.0	<2.0	<2.0	110	<100	<1.0	<0.50
SB-26GW	4/16/2015	20	750,000	2,300,000	2,100	1,200	28,000	91,000	18,000	<1,000	<2,000	<2,000	<2,000	<10,000	<100,000	<1,000	<500
SB-27GW	4/16/2015	23	60,000	130,000	5,200	12,000	3,000	11,000	4,200	780	<200	<200	<200	9,800	<10,000	<100	<50
SB-28GW	4/16/2015	19	11,000	17,000	730	210	420	1,100	330	18	<20	<20	<20	450	<1,000	<10	<5.0

**Notes:**  
 TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015  
 TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015  
 BTEX = benzene, toluene, ethyl-benzene, total xylenes by EPA Method 8260B  
 MTBE = methyl tertiary-butyl ether by EPA Method 8260  
 TBA = Tertiary-butyl alcohol by EPA Method 8260  
 TAME = tert amyl methyl ether by EPA Method 8260  
 DIPE = Diisopropyl ether  
 ETBE = Ethyl-t-butyl ether  
 EDB = 1,2-Dibromoethane  
 1,2-DCA = 1,2-Dichloroethane  
 ug/L = micrograms per Liter

< = below the laboratory's indicated reportin limit  
**Bold** = above the laboratory's indicated reporting limit  
 \* = The chromatographic pattern was inconsistent with the profile of the reference fuel standard for each TPHd result above the laboratory's reporting limit



## ***Appendix A***

Alameda County Health Case Service Agency Letter



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

March 5, 2015

Ed Ralston  
Program Manager  
Phillips 66 Company  
76 Broadway  
Sacramento, CA 95818  
(Sent via E-mail to: [Ed.C.Ralston@p66.com](mailto:Ed.C.Ralston@p66.com))

Subject: Conditional Work Plan Approval for Fuel Leak Case No. RO0000356 and GeoTracker Global ID T0600100201, BP #11117, 7210 Bancroft Avenue, Oakland, CA 94605

Dear Mr. Ralston:

Thank you for the recently submitted document entitled, *Work Plan for Contamination Delineation* (Work Plan), dated December 31, 2014, which was prepared by Antea Group (Antea), for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned work plan for the above-referenced site. The work plan proposes to advance several borings in areas previously shown to contain significantly elevated concentrations of petroleum hydrocarbons and fuel components. The purpose of the borings is to investigate for the presence of residual contamination. If encountered, step out borings are proposed to delineate the areas of impact.

During a phone conversation on March 2, 2015 with Mr. Dennis Dettloff, Project Manager for Antea, Mr. Dettloff stated at least three borings would be advanced in each of the three areas to be investigated. Mr. Dettloff indicated the use of a mobile laboratory would be advantageous to facilitate the need for step out borings. ACEH concurred with the proposed use of a mobile laboratory.

The proposed scope of work may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during the field implementation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed.

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

#### **TECHNICAL COMMENTS**

1. **Soil Sampling** – The Work Plan states that, at a minimum, soil samples with the highest PID measurements in each boring and the bottom of each boring will be collected and retained for laboratory analysis. Additional soil samples may be collected and retained for laboratory analysis based on field observations, changes in lithology, depth of first water, and historical occurrences of hydrocarbons.

ACEH requests that soil samples be collected and analyzed at minimum intervals of five feet, areas of obvious contamination, the soil/groundwater interface, and at significant changes in lithology, and from the base of the boring. If staining, odor, or elevated PID readings are observed, a sufficient number of soil samples from this interval are requested be submitted for laboratory analyses to characterize the fuel hydrocarbon concentrations within this interval.

2. **Groundwater Sampling** – The Work Plan does not indicate if groundwater sampling will be performed. As significantly elevated concentrations of petroleum hydrocarbons and fuel components have been observed in groundwater with corresponding soil concentrations exhibiting a moderate level of impact, e.g. bore A-2, ACEH requests that each boring be advanced to a sufficient depth for the recovery of grab groundwater samples.
3. **Scope of Laboratory Analysis** – ACEH requests that total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015B be added to the analysis suite as diesel compounds have been reported at the site.

ACEH requests that the grab groundwater samples requested in Technical Comment 2 above be analyzed for TPHg, BTEX, the fuel oxygenates, and lead scavengers by the test methods identified in the Work Plan, and for TPHd by the test method identified above.

4. **CAM 17 Analysis** - ACEH is in agreement of CAM 17 analysis for disposal purposes. Please conduct a sufficient analysis for CAM 17 metals as required by the disposal facility.
5. **Mobile Laboratory** – The use of a mobile laboratory was not specified in the Work Plan; however, due to the iterative nature of the proposed work, a mobile laboratory would likely eliminate multiple site mobilizations and associated costs. Please evaluate the use of a mobile laboratory.

Alternatively, if a standard laboratory is used, please provide ACEH, via email, with tabulated analytical data, a copy the initial laboratory analysis report, and a draft figure showing the proposed step out borings locations, if any, following the initial phase of verification sampling. ACEH will quickly review the data and proposed boring locations for consistency with the goal of contamination delineation. Step out boring advancement should not occur without prior ACEH authorization.

#### **TECHNICAL REPORT REQUEST**

Please submit technical reports to ACEH (Attention: Keith Nowell), according to the following schedule and file naming convention:

- **March 31, 2015** – Email correspondence addressing the type of laboratory (fixed or mobile) to be used for the investigation.
- **May 15, 2015** – Laboratory Analysis Report provided via email (for the Fixed-Base Brick and Mortar Laboratory Alternative only) with tabulated analytical data, a copy the initial laboratory analysis report, and a draft figure.

Mr. Ralston  
RO0000356  
March 5, 2015, Page 3

- **June 26, 2015 – Soil and Water Investigation Report** (file to be named SWI\_R\_yyyy-mm-dd)
- **TBD** – Report documenting excavation activities through the use of large diameter augers (file to be named EX\_R\_yyyy-mm-dd)

Thank you for your cooperation. ACEH looks forward to working with you and your consultants to advance the case toward closure. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at [keith.nowell@acgov.org](mailto:keith.nowell@acgov.org).



Digitally signed by Keith Nowell  
DN: cn=Keith Nowell, o=Alameda County,  
ou=Department of Environmental Health,  
email=keith.nowell@acgov.org, c=US  
Date: 2015.03.05 18:03:26 -08'00'

Keith Nowell  
Hazardous Materials Specialist

cc: Dennis Dettloff, Antea™ Group, 11050 White Rock Road, Suite 110, Rancho Cordova, CA 95670  
(Sent via E-mail to: [Dennis.Dettloff@anteagroup.com](mailto:Dennis.Dettloff@anteagroup.com))

Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (Sent via E-mail to: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com))

Dilan Roe, ACEH (Sent via E-mail to: [dilan.roe@acgov.org](mailto:dilan.roe@acgov.org))  
Keith Nowell ACEH (Sent via E-mail to: [keith.nowell@acgov.org](mailto:keith.nowell@acgov.org))  
GeoTracker/ File

## ***Appendix B***

Drilling Permit

# Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency  
—Alameda County—

399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/30/2015 By jamesy

Permit Numbers: W2015-0262  
Permits Valid from 04/06/2015 to 04/10/2015

Application Id: 1427233458380  
Site Location: 7210 Bancroft Avenue, Oakland, CA  
Project Start Date: 04/06/2015

City of Project Site:Oakland  
Completion Date:04/10/2015

Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Antea Group - Jonathan Fillingame  
11050 White Rock Rd Ste 110, Rancho Cordova, CA 95670

Phone: 916-288-0150

Property Owner: Eastmont Oakland Associates, LLC  
825 3rd Avenue, 36th Floor-C/O TPF VI REIT, New York, NY 10022

Phone: --

Client: Power Quality & Electrical Systems, Inc.  
7210 Bancroft Avenue, Oakland, CA 94605

Phone: 510-553-0109 x

Receipt Number: WR2015-0142 Total Due: \$265.00  
Payer Name : Antea Group Total Amount Paid: \$265.00  
Paid By: CHECK PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitoring Study - 9 Boreholes  
Driller: Gregg drilling - Lic #: 485165 - Method: DP

Work Total: \$265.00

## Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0262	03/30/2015	07/05/2015	9	2.00 in.	35.00 ft

## Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

6. NOTE:

## **Alameda County Public Works Agency - Water Resources Well Permit**

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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## ***Appendix C***

Boring Logs

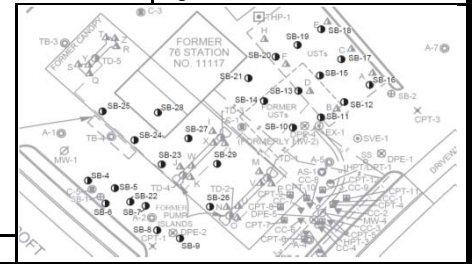




Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/6/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-4**  
 Page 1 of 2



▽ First Water Depth: 26.7 feet  
 ▼ Static Water Depth: 17.8 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

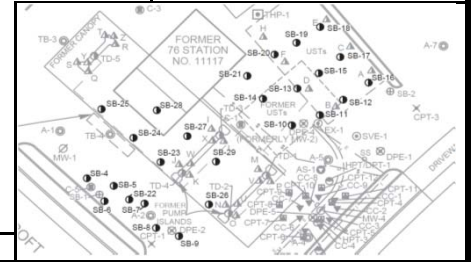
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION			
Neat Cement		0	Hand Auger	1				Fill - grey, 90% fine to coarse gravel, 10% fine to coarse sand, very dense, dry.			
				2				Lean CLAY (CL) - dark grey, 90% clay, 10% fine sand, low plasticity, very stiff, dry.			
				3				Lean CLAY (CL) - brown, 90% clay, 10% fine sand, low plasticity, very stiff, dry.			
				4							
						SB-4d5.5	5				SILT with Sand (ML) - brown 85% silt, 15% fine to coarse sand, dense, dry.
							6				
							7				
							8				SILT with Sand (ML) - brown 80% silt, 15% fine to coarse sand, 5% fine gravel, dense, dry.
							9				
						SB-4d10	10				Lean CLAY with Sand (CL) - greyish brown, 85% clay, 10% fine to coarse sand, 5% fine gravel, low plasticity, stiff, moist.
							11				Sandy Lean CLAY (CL) - grey, 60% clay, 40% fine to coarse sand, low plasticity, stiff, moist.
							12				Sandy Lean CLAY (CL) - brown, 60% clay, 40% fine to coarse sand, low plasticity, stiff, moist.
							13				Lean CLAY with Sand and Gravel (CL) - brown, 80% clay, 10% fine to coarse sand, 10% fine gravel, low plasticity, stiff, moist.
							14				
						SB-4d15	15				
							16				Lean CLAY (CL) - brown, 95% clay, 5% fine to coarse sand, low plasticity, stiff, moist.
							17				Clayey GRAVEL (GC) - grey, 50% fine gravel, 40% clay, 10% fine to coarse sand, dense, wet. (Clay is wet but no free water observed)
							18				
							19				Gravelly Lean CLAY (CL) - 60% clay, 30% fine gravel, 10% fine to coarse sand, low plasticity, stiff, dry
						SB-4d20	20				
							21				
							22				Clayey GRAVEL (GC) - brown, 50% fine gravel, 40% clay, 10% fine to coarse sand, dense, moist.



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/6/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-4**  
 Page 2 of 2



▽ First Water Depth: 26.7 feet  
 ▼ Static Water Depth: 17.8 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

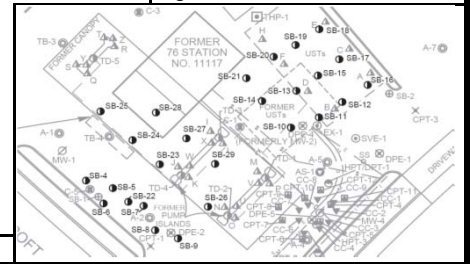
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Neat Cement	▽	0		23				
		0		24			<b>Clayey SAND (SC)</b> - grey, brown, 50% fine to coarse sand, 40% clay, 10% fine gravel, dense, moist.	
		0	SB-4d25	25				
		0		26			<b>Clayey SAND (SC)</b> - grey, 80% fine to medium sand, 20% clay, dense, wet.	
		0	SB-4d27	27			<b>Clayey SAND (SC)</b> - grey, brown, 50% fine to coarse sand, 40% clay, 10% fine gravel, dense, wet.	
		0		28				
		0		29			<b>Well Graded SAND (SW)</b> - grey, 95% fine to coarse sand, 5% clay, dense, wet.	
		0	SB-4d30	30				
		0		31			<b>Clayey SAND (SC)</b> - grey, brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, wet.	
		0		32				
		0		33				
		0		34			<b>Clayey SAND (SC)</b> - grey, brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, wet.	
		400	SB-4d35	35			<b>Hydrocarbon odor</b> Total depth 35 feet (refusal from continuous slough in hole)	
						36		
						37		
				38				
				39				
				40				
				41				
				42				
				43				
				44				



Project No: **I4261117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/6/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **38 feet**

Boring No: **SB-5**  
 Page 1 of 2



▽ First Water Depth: 28 feet  
 ▼ Static Water Depth: 18 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

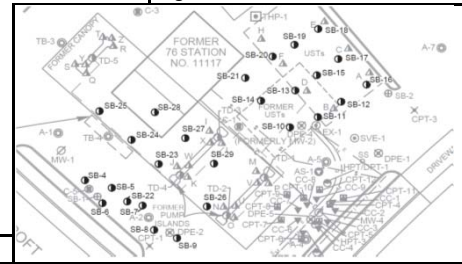
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement	▼		Hand Auger	1				Fill - grey, 90% fine to coarse gravel, 10% fine to coarse sand, very dense, dry.		
				2				Lean CLAY (CL) - dark grey, 90% clay, 10% fine sand, low plasticity, very stiff, dry.		
				3				Lean CLAY (CL) - brown, 90% clay, 10% fine sand, low plasticity, very stiff, dry.		
				4						
					0	SB-5d5.5	5			SILT with Sand (ML) - brown 85% silt, 15% fine to coarse sand, dense, dry.
					0		6			
					0		7			
					0		8			SILT with Sand (ML) - brown 80% silt, 15% fine to coarse sand, 5% fine gravel, dense, dry.
					0		9			Lean CLAY with Sand (CL) - greyish brown, 85% clay, 10% fine to coarse sand, 5% fine gravel, low plasticity, very stiff, moist.
					0	SB-5d10	10			Sandy Lean CLAY (CL) - brown, 55% clay, 40% fine to coarse sand, 5% fine gravel, low plasticity, stiff, moist.
					0		11			Lean CLAY with Sand (CL) - brown, 85% clay, 10% fine to coarse sand, 5% fine gravel, low plasticity, very stiff, moist.
					0		12			
					0.2		13			Lean CLAY with Sand and Gravel (CL) - brown, 80% clay, 10% fine to coarse sand, 10% fine gravel, low plasticity, stiff, moist.
					0.1	SB-5d15	15			Sandy Lean CLAY (CL) - greenish grey, 65% clay, 25% fine to coarse sand 10% fine gravel, low plasticity, stiff, moist.
					8.2		16			
					0		17			Sandy Lean CLAY (CL) - grey, 60% clay, 30% fine to coarse sand, 10% fine gravel, low plasticity, stiff, moist.
					0		18			
					1		19			
					6.8	SB-5d20	20			Sandy Lean CLAY (CL) - grey to greenish grey, 60% clay, 30% fine to coarse sand, 10% fine gravel, low plasticity, stiff, moist.
					0.7		21			
					1.0		22			
					8.0		22			



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/6/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **38 feet**

Boring No: **SB-5**  
 Page 2 of 2



▽ First Water Depth: 28 feet  
 ▼ Static Water Depth: 18 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

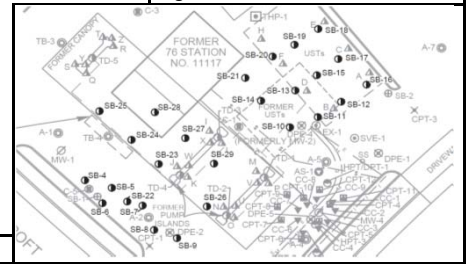
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Neat Cement	▽	9.4	SB-5d25	23			Clayey GRAVEL with Sand (GC) - greenish grey, 60% fine gravel, 20% clay, 20% fine to coarse sand, dense, moist.	
		1.0		24			Clayey SAND with Gravel (SC) - grey, brown, 50% fine to coarse sand, 25% fine gravel, 25% clay, dense, moist.	
		82.5	SB-5d27	25			Clayey SAND (SC) - grey, brown, 50% fine to coarse sand, 40% clay, 10% fine gravel, dense, moist, hydrocarbon odor.	
		5.5		26			Clayey SAND (SC) - grey, brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, moist, hydrocarbon odor.	
		12		27			Clayey SAND (SC) - grey, brown, 80% fine to coarse sand, 15% clay, 5% fine gravel, dense, wet.	
		670	SB-5d30	28			Clayey SAND (SC) - grey, brown, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet.	
		603		29			Clayey SAND (SC) - grey, brown, 80% fine to coarse sand, 15% clay, 5% fine gravel, dense, wet.	
		139		30			Well Graded SAND (SW) - grey, 90% fine to coarse sand, 5% fine gravel, 5% clay, dense, wet;	
		725	SB-5d32	31			Clayey SAND (SC) - grey, brown, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, wet.	
		151		32			Limited recovery (consumed by sample to lab) Total depth 38 feet (refusal)	
		1,317		33				
		115	SB-5d38	34				
		38.8		35				
		1,708		36				
		910		37				
		1,005		38				
		570		39				
				38.1		40		
				41				
				42				
				43				
				44				





Project No: **I4211117**      Client: **COP-ELT**  
 Logged By: **Jonathan Fillingame**      Location: **7210 Bancroft Avenue**  
 Driller: **Gregg Drilling**      Date Drilled: **4/7/2015**  
 Drilling Method: **Direct Push**      Hole Diameter: **2 inches**  
 Sampling Method: **Continuous Liners**      Hole Depth: **35 feet**

Boring No: **SB-6**  
 Page 2 of 2



▽ First Water Depth: 26.7 feet  
 ▼ Static Water Depth: 17.8 feet

Elevation:      Northing:      Easting:

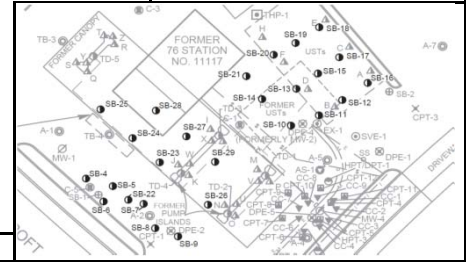
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement		0	SB-6d26	23	[Shaded bar]	[Dotted pattern]	<b>Silty SAND with Gravel (SM)</b> - brown, grey, 60% fine to coarse sand, 35% silt, 20% fine gravel, dense, wet.		
		0		24					
		0		25					
		0		26					
		0	SB-6d32	27	[Shaded bar]	[Dotted pattern]	<b>Silty SAND with Gravel (SM)</b> - grey, 35% fine to coarse sand, 35% silt, 30% fine gravel, very dense, wet.		
		0		28					
		0		29					
		0		30					
		0.1	SB-6d35	31	[Shaded bar]	[Dotted pattern]	<b>Well Graded SAND (SW)</b> - grey, 90% fine to coarse sand, 5% fine gravel, 5% silt, very dense, wet.		
		2.8		32					
		0	SB-6d35	33	[Shaded bar]	[Dotted pattern]			
		0		34					
		0	35		Total depth 35 feet				
						36			
						37			
						38			
						39			
						40			
						41			
						42			
				43					
				44					



Project No: **I4261117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/7/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-7**  
 Page 1 of 2



▽ First Water Depth: 22.5 feet  
 ▼ Static Water Depth: 19.3 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

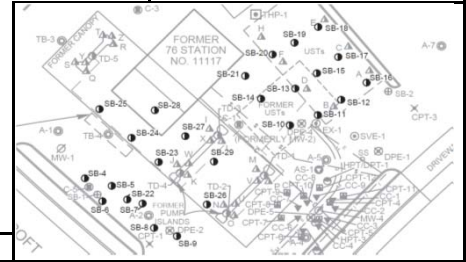
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION				
Neat Cement			Hand Auger	1				Fill - grey, 90% fine to coarse gravel, 10% fine to coarse sand, very dense, dry.				
				2				Lean CLAY (CL) - dark grey, 90% clay, 10% fine sand, low plasticity, very stiff, dry.				
				3								
				4								
				5								
				6				SB-7d5.5				SILT (ML) - brown, 90% silt, 10% fine to medium sand, dense, dry.
				7								
				8								
				9								Lean CLAY with Sand (CL) - brown, 80% clay, 15% fine to coarse sand, 5% fine gravel, low plasticity, very stiff, moist.
				10				SB-7d10				SILT (ML) - brown, 90% silt, 10% fine to medium sand, dense, dry.
				11								Sandy SILT (ML) - brown, 60% silt, 35% fine to coarse sand, 5% fine gravel, dense, dry.
				12								Lean CLAY (CL) - brown, 90% clay, 10% fine sand, low plasticity, very stiff, moist.
				13								
				14								
				15				SB-7d15				Lean CLAY (CL) - greyish brown, 90% clay, 10% fine sand, low plasticity, very stiff, moist.
				16								Lean CLAY (CL) - brown and greenish grey, 90% clay, 10% fine sand, low plasticity, very stiff, moist.
				17								
				18								
				19								
				20				SB-7d20				Clayey SAND (SC) - grey, 55% fine to coarse sand, 40% clay, 5% fine gravel, dense, moist.
				21								
				22								



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/7/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-7**  
 Page 2 of 2



▽ First Water Depth: 22.5 feet  
 ▼ Static Water Depth: 19.3 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement		518	SB-7d27	23			<b>Clayey SAND (SC)</b> - grey, 80% fine to medium sand, 20% clay, dense, wet, hydrocarbon odor.		
		241		24					
		348		25					
				371	SB-7d32	26			<b>Clayey SAND (SC)</b> - grey, brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, very dense, wet, hydrocarbon odor.
		1,219	27						
		982	28						
				831	SB-7d35	29			<b>Well Graded SAND (SW)</b> - grey, 90% fine to coarse sand, 5% fine gravel, 5% clay, dense, wet, hydrocarbon odor.
		201	30						
		192	31						
				1,688		32			
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					

Total depth 35 feet

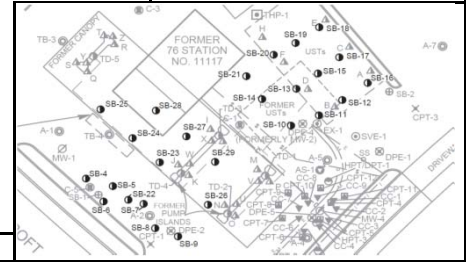




Project No: **I4261117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/7/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-8**  
 Page 1 of 2



▽ First Water Depth: 8 feet  
 ▼ Static Water Depth: 12.7 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

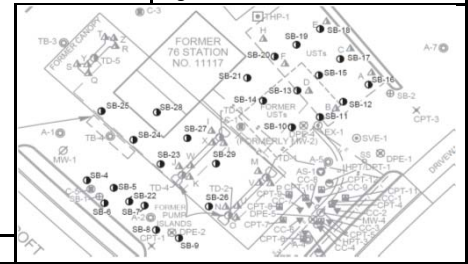
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement		0	Hand Auger	1				Fill - grey, 90% fine to coarse gravel, 10% fine to coarse sand, very dense, dry.		
				2				Lean CLAY (CL) - dark grey, 90% clay, 10% fine sand, low plasticity, very stiff, dry.		
				3				Lean CLAY (CL) - brown, 90% clay, 10% fine sand, low plasticity, very stiff, dry.		
				4				SILT with Sand (ML) - brown, 85% silt, 15% fine to coarse sand, dense, dry.		
					0	SB-8d5.5	5			Sandy SILT (ML) - brown, 60% silt, 40% fine to coarse sand, dense, dry.
					0		6			SILT with Sand (ML) - brown, 75% silt, 25% fine to coarse sand, dense, moist.
					0	SB-8d10	7			Lean CLAY (CL) - brown, 90% clay, 10% fine to coarse sand, low plasticity, stiff, wet.
					0		8			Clayey SAND (SC) - brown, 60% fine to medium sand, 40% clay, dense, moist.
					0		9			Lean CLAY with Sand (CL) - brown, 80% clay, 20% fine to coarse sand, low plasticity, very stiff, moist.
					0	SB-8d15	10			Lean CLAY (CL) - brown, 90% clay, 10% fine to coarse sand, low plasticity, very stiff, moist.
					0		11			Lean CLAY (CL) - grey, 90% clay, 10% fine to coarse sand, low plasticity, very stiff, moist.
					0		12			Lean CLAY (CL) - grey, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
					1.6		13			Sandy Lean CLAY (CL) - grey, 60% clay, 40% fine to coarse sand, low plasticity, stiff, moist.
					5.4		14			Sandy Lean CLAY (CL) - grey, 60% clay, 35% fine to coarse sand, 5% fine gravel, low plasticity, stiff, wet.
					0.1	SB-8d20	15			Clayey SAND (SC) - grey, 75% fine to medium sand, 20% clay, 5% fine gravel, dense, wet.
					0		16			
					0.1		17			
							18			
							19			
							20			
							21			
							22			



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/7/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-8**  
 Page 2 of 2



▽ First Water Depth: 8 feet  
 ▼ Static Water Depth: 12.7 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement	12.7	0.5	SB-8d24	23		[Diagonal hatching]	<b>Clayey SAND (SC)</b> - grey, 75% fine to medium sand, 20% clay, 5% fine gravel, dense, wet, hydrocarbon odor.		
		5.6		24					
		463		25					
				11	SB-8d28	26		[Diagonal hatching]	<b>Clayey SAND (SC)</b> - grey, 80% fine to medium sand, 15% clay, 5% fine gravel, very dense, wet, hydrocarbon odor.
		41.7	27						
		10.6	28						
				291	SB-8d35	29		[Diagonal hatching]	<b>Clayey SAND (SC)</b> - grey, 80% fine to medium sand, 15% clay, 5% fine gravel, dense, wet, hydrocarbon odor.
		143	30						
		297	31						
				60.1	SB-8d35	32		[Dotted pattern]	<b>Well Graded SAND (SW)</b> - grey, 90% fine to coarse sand, 5% fine gravel, 5% clay, dense, wet hydrocarbon odor.
	473	33		[Diagonal hatching]		<b>Clayey SAND (SC)</b> - grey, brown, 70% fine to coarse sand, 25% clay, 5% fine gravel dense, wet, hydrocarbon odor.			
		34							
		35							
		36							
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					

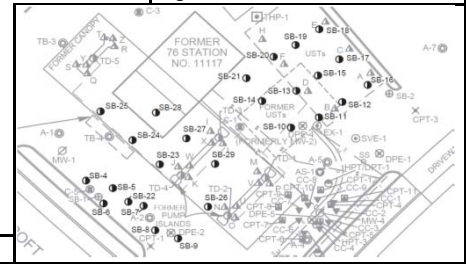
Total depth 35 feet (refusal)



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/8/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **36 feet**

Boring No: **SB-9**  
 Page 1 of 2



▽ First Water Depth: 0.5 feet (due to rain)  
 ▼ Static Water Depth: 10.6 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

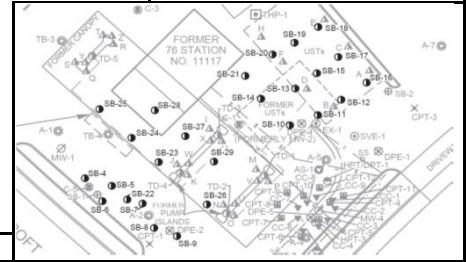
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION			
Neat Cement		0	Hand Auger	1				Fill - grey, 90% fine to coarse gravel, 10% fine to coarse sand, very dense, wet.			
				2				Lean CLAY (CL) - dark grey, 90% clay, 10% fine sand, low plasticity, very stiff, dry.			
				3				Lean CLAY (CL) - brown, 90% clay, 10% fine sand, low plasticity, very stiff, dry.			
				4				SILT with Sand (ML) - brown, 85% silt, 15% fine to coarse sand, dense, dry.			
						SB-9d5.5	5				
						SB-9d10	6				Well Graded SAND (SW) - grey, 95% fine to coarse sand, 5% fine gravel, dense, wet.
					7					SILT with Sand (ML) - brown, 80% silt, 20% fine to coarse sand, dense, dry.	
					8					Silty SAND (SM) - brown, 60-80% fine to coarse sand, 15-35% silt, 5% fine gravel, dense, dry.	
					9					Sandy SILT (ML) - brown, 70% silt, 25% fine to coarse sand, 5% fine gravel, dense, dry.	
					10					Well graded SAND (SW) - grey, 95% fine to coarse sand, 5% fine gravel, dense, wet.	
						SB-9d15	11				Lean CLAY (CL) - brown mottled grey, 90% clay, 10% fine to coarse sand, low plasticity, very stiff, moist.
					12						
					14						Lean CLAY (CL) - grey, 90% clay, 10% fine to coarse sand, low plasticity, very stiff, moist.
					15						
						SB-9d20	18				Sandy Lean CLAY (CL) - grey, 65% clay, 35% fine to medium sand, low plasticity, stiff, moist.
					19						Sandy Lean CLAY (CL) - grey, 60% clay, 40% fine to coarse sand, low plasticity, stiff, moist.
					20						
					22						Sandy Lean CLAY (CL) - grey, 55% clay, 30% fine to coarse sand, 15% fine gravel, low plasticity, stiff, moist.



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/8/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **36 feet**

Boring No: **SB-9**  
 Page 2 of 2



▽ First Water Depth: 0.5  
 ▼ Static Water Depth: 10.6

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

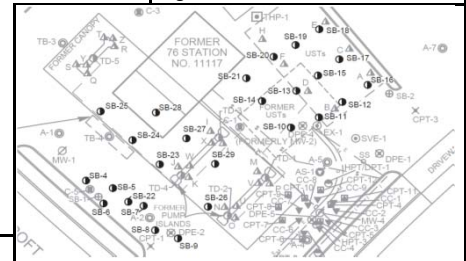
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement	10.6	0	SB-9d27	23		[Diagonal hatching]	Clayey SAND with Gravel (SC) - grey, 40% fine to coarse sand, 35% fine gravel, 25% clay, dense, wet.		
		0		24					
		1.3		25					
				795	SB-9d30.5	26		[Diagonal hatching]	Clayey SAND with Gravel (SC) - grey, 60% fine to coarse sand, 20% fine gravel, 20% clay, dense, wet.
		758	27			Clayey SAND with Gravel (SC) - grey, 60% fine to coarse sand, 20% fine gravel, 20% clay, dense, wet, hydrocarbon odor.			
		276	28						
				731	SB-9d36	29		[Diagonal hatching]	Clayey SAND (SC) - grey, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet, hydrocarbon odor.
		487	30						
		389	31			Clayey SAND (SC) - grey, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, wet, hydrocarbon odor.			
				197	SB-9d36	32		[Diagonal hatching]	Clayey SAND (SC) - grey, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, wet, hydrocarbon odor.
		832	33						
		591	34			Well Graded SAND (SW) - grey, 90% fine to coarse sand, 5% fine gravel, 5% clay, dense, wet, hydrocarbon odor.			
				35		[Diagonal hatching]	Clayey SAND (SC) - grey, pale green, 80% fine to coarse sand, 20% clay, dense, wet, hydrocarbon odor.		
				36		[Diagonal hatching]	Total depth 36 feet (refusal)		
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/8/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-10**  
 Page 1 of 2



▽ First Water Depth: 23  
 ▼ Static Water Depth: 17.4

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

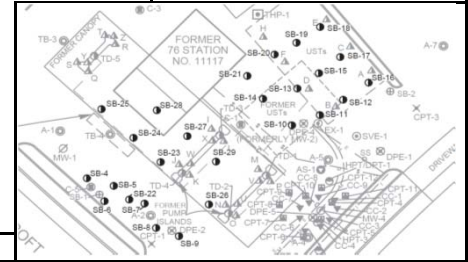
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded GRAVEL with Sand (FILL) - grey, 75% fine to coarse gravel, 20% fine to coarse sand, 5% silt, dense, moist.
				2				
				3				
				4				Silty GRAVEL (GM) - brown, grey, 60% fine to coarse gravel, 20% fine to coarse sand, 20% silt, dense, moist.
		0	SB-10d5.5	5				SILT with Gravel (ML) - brown, 80% silt, 20% fine to coarse, gravel, dense, moist.
		0		6				
		0		7				SILT (ML) - dark brown, 85% silt, 10% fine to coarse sand, 5% fine gravel, dense, moist.
		0		8				
		0		9				SILT (ML) - brown, 85% silt, 10% fine to coarse sand, 5% fine gravel, very dense, moist.
		1.4	SB-10d10	10				
		0		11				
		7.5		12				Silty SAND (SM) - grey, 75% fine to coarse sand, 20% silt, 5% fine gravel, very dense, moist.
		0		13				
		0.2		14				SILT with Sand (ML) - brown, 85% silt, 10% fine to coarse sand, 5% fine gravel, very dense, moist.
		1.6	SB-10d15	15				Silty SAND (SM) - grey, 60% fine to coarse sand, 30% silt, 10% fine to coarse gravel, dense, moist.
		33.5		16				
		50.7		17				
		169.9		18				
		202	SB-10d19	19				Silty SAND (SM) - grey, green 60% fine to coarse sand, 30% silt, 10% fine gravel, dense, moist, hydrocarbon odor.
		4		20				
		882		21				Silty SAND (SM) - grey, green 65% fine to coarse sand, 30% silt, 5% fine gravel, dense, moist, hydrocarbon odor.
		63.1		22				
		82.7						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/8/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-10**  
 Page 2 of 2



▽ First Water Depth: 23 feet  
 ▼ Static Water Depth: 17.4 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

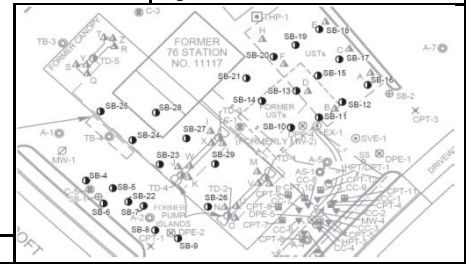
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement	▽	29	SB-10d25	23	[Grey bar]	[Dotted pattern]	<b>Silty SAND (SM)</b> - grey, green, 65% fine to coarse sand, 30% silt, 5% fine gravel, dense, wet, hydrocarbon odor.		
		92		24			<b>Silty SAND (SM)</b> - brown, grey, green, 70% fine to coarse sand, 25% silt, 5% fine gravel, dense, wet, hydrocarbon odor.		
		274		25					
		20.7	SB-10d28	26	[Grey bar]	[Dotted pattern]			
		143		27					
		118.2		28					
		107.2	SB-10d32	29	[Grey bar]	[Dotted pattern]			
		1,140		30					
		48.1		31					
		2,013	SB-10d35	32	[Grey bar]	[Dotted pattern]	<b>Well Graded SAND (SW)</b> - grey, 95% fine to coarse sand, 5% silt, dense, wet, hydrocarbon odor.		
		383		33			<b>Silty SAND (SM)</b> - brown, grey, green, 70% fine to coarse sand, 25% silt, 5% fine gravel, dense, wet, hydrocarbon odor.		
		164		34			<b>Lean CLAY (CL)</b> - pale grey, 90% clay, 10% fine to coarse sand, low plasticity, very stiff, wet for one inch then dry.		
		9.4		35			Total depth 35 feet		
						36			
						37			
				38					
				39					
				40					
				41					
				42					
				43					
				44					



Project No: **I4261117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/9/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-11**  
 Page 1 of 2



▽ First Water Depth: 15.7 feet  
 ▼ Static Water Depth: 14.1 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

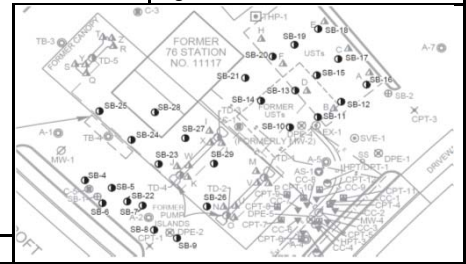
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded GRAVEL with Sand (FILL) - grey, 75% fine to coarse gravel, 20% fine to coarse sand, 5% silt, dense, moist.
				2				
				3				
				4				Silty GRAVEL with Sand (FILL) - brown, grey, 60% fine to coarse gravel, 20% fine to coarse sand, 20% silt, dense, moist.
		1.1	SB-11d5.5	5				Silty SAND (FILL) - brown, 80% fine to coarse sand, 20% silt, dense, moist.
		1.2		6				
		1.6		7				
		0.3	SB-11d8	8				SILT with Sand (FILL) - brown, 80% silt, 20% fine to coarse sand, dense, moist.
		3.7		9				Silty SAND (FILL) - brown, 65% fine to coarse sand, 30% silt, 5% fine gravel, very dense, moist.
		5.8		10				
		6.5		11				
		1.9		12				
		7.4		13				
		33.8		14				Silty SAND (FILL) - brown, 65% fine to coarse sand, 30% silt, 5% fine gravel, very dense, moist.
		18.9	SB-11d16	15				Silty SAND (Fill) - brown, 65% fine to coarse sand, 30% silt, 5% fine gravel, very dense, wet.
				16				
		2.4	SB-11d18	17				
				18				Poorly Graded Gravel with Sand (FILL) - grey, 70% fine gravel, 30% fine to coarse sand, dense, wet.
		2,568	SB-11d19	19				Clayey SAND (SC) - greenish grey, 60% fine to coarse sand, 30% clay, 10% fine gravel, dense, wet, hydrocarbon odor.
		12,965	SB-11d20	20				
		332		21				Poorly Graded Gravel with Sand (GP) - grey, 80% fine gravel, 15% fine to coarse sand, 5% silt, dense, wet.
		1,083	SB-11d22	22				



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/9/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-11**  
 Page 2 of 2



▽ First Water Depth: 15.7 feet  
 ▼ Static Water Depth: 14.1 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement	[Scale]	1,621		23		[Soil Type Icon]	<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 25% clay, 10% fine gravel, dense, wet, hydrocarbon odor.
		2,978	SB-11d24	24		[Soil Type Icon]	<b>Poorly Graded Gravel with Sand (GP)</b> - grey, 60% fine gravel, 35% fine to coarse sand, 5% silt, medium dense, wet.
		202	SB-11d25	25		[Soil Type Icon]	<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 25% clay, 10% fine gravel, dense, wet, hydrocarbon odor.
		259		26		[Soil Type Icon]	<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 25% clay, 10% fine gravel, dense, wet, hydrocarbon odor.
		2,774		27		[Soil Type Icon]	<b>Clayey SAND with Gravel (SC)</b> - greenish grey, 60% fine to coarse sand, 20% clay, 20% fine gravel, dense, wet, hydrocarbon odor.
		2,132		28		[Soil Type Icon]	
		761		29		[Soil Type Icon]	<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 25% clay, 10% fine gravel, dense, wet, hydrocarbon odor.
		301		30		[Soil Type Icon]	<b>Clayey SAND (SC)</b> - greenish grey, 50% fine to coarse sand, 40% clay, 10% fine gravel, dense, wet, hydrocarbon odor.
		1,662		31		[Soil Type Icon]	<b>Lean CLAY (CL)</b> - greying brown, 90% clay, 5% fine to coarse sand, 5% fine gravel, stiff, low plasticity, wet, hydrocarbon odor.
		2,107	SB-11d32	32		[Soil Type Icon]	
				33			Total Depth 32 feet, Direct Push refusal, gravel continuously fills the boring, unable to advance.
				34			
				35			
		36					
		37					
		38					
		39					
		40					
		41					
		42					
		43					
		44					

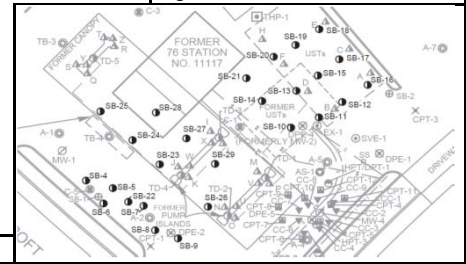




Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/9/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **24 feet**

Boring No: **SB-12**  
 Page 1 of 2



▽ First Water Depth: 17.75 feet  
 ▼ Static Water Depth: 14.1 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

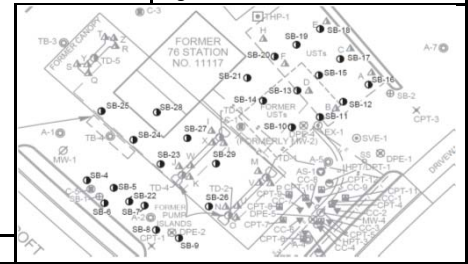
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded GRAVEL with Sand (FILL) - grey, 75% fine to coarse gravel, 20% fine to coarse sand, 5% silt, dense, moist.
			Hand Auger	2				
			Hand Auger	3				
			Hand Auger	4				Silty GRAVEL with Sand (FILL) - brown, grey, 60% fine to coarse gravel, 20% fine to coarse sand, 20% silt, dense, moist.
			SB-12d5.5	5				Silty SAND (FILL) - brown, 60% fine to coarse sand, 30% silt, 10% fine gravel, dense, moist.
		1.0		6				
		1.7		7				
		5.4		8				
		2.2		9				
		4.5		10				
		6.7		11				Silty SAND (FILL) - brown, 70% fine to coarse sand, 20% silt, 10% fine gravel, dense, moist.
		4.1		12				
		0.8		13				Silty SAND (FILL) - brown, 50% fine to coarse sand, 40% silt, 10% fine gravel, dense, moist.
		1.4		14				Silty SAND (FILL) - brown, 65% fine to coarse sand, 25% silt, 10% fine gravel, dense, moist.
		4.4	SB-12d15	15				
		2.7		16				
				17				Well Graded SAND (FILL) - grey, 100% fine to coarse sand, dense, wet.
		0		18				Poorly Graded GRAVEL (FILL) - grey, 70% fine gravel, 30% medium to coarse sand, dense, wet.
		0.3		19				Clayey SAND (SC) - green, 60% fine to coarse sand, 40% clay, dense, moist.
		4,610	SB-12d19.5	20				
		66.4		21				Lean CLAY (CL) - brown, 90% clay, 10% fine to medium sand, stiff, low plasticity, moist.
				22				
		2,590						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/9/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **24 feet**

Boring No: **SB-12**  
 Page 2 of 2



▽ First Water Depth: 17.75 feet  
 ▼ Static Water Depth: 14.1 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

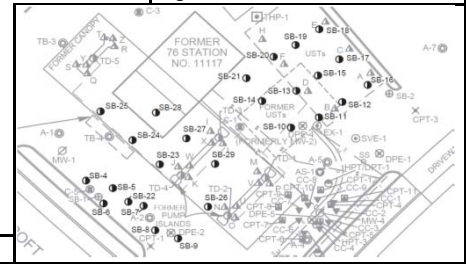
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill		1,922		23			<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 25% clay, 10% fine gravel, dense, wet, hydrocarbon odor. Total Depth 24 feet, collapsing gravel
		4,057	SB-12d24	24			
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			
				36			
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/9/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **28 feet**

Boring No: **SB-13**  
 Page 1 of 2



▽ First Water Depth: 14.5 feet  
 ▼ Static Water Depth: 14.2 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

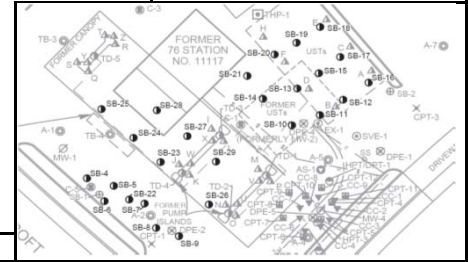
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement				1				<b>Silty SAND with Gravel (FILL)</b> - brown, 60% fine to coarse sand, 25% silt, 15% gravel, dense, moist.
			Hand Auger	2				
				3				
				4				
		0.5	SB-13d5.5	5				<b>Silty SAND with Gravel (FILL)</b> - brown, 60% fine to coarse sand, 25% silt, 15% fine gravel, dense, moist.
		1.0		6				
		1.2		7				
		1.8		8				<b>Silty SAND with gravel (FILL)</b> - 60% fine to coarse sand, 25% fine gravel, 15% silt, brown, dense, moist.
		1.0		9				
		3.1		10				
		0.5		11				
		2.0		12				
		0		13				<b>Lean CLAY (CL)</b> - brown, 90% clay, 10% fine to coarse sand, stiff, low plasticity, moist.
		0		14				<b>Poorly Graded GRAVEL with Sand (GP)</b> - grey, 80% fine gravel, 20% medium to coarse sand, dense, moist.
				15				<b>Lean CLAY (CL)</b> - brown, 80% clay, 20% fine to coarse sand, stiff, low plasticity, wet.
				16				
				17				Loose formation (unknown, maybe gravel) did not collect in liner
		4.1	SB-13d18	18				<b>Poorly Graded SAND with Silt (SP-SM)</b> - green, 90% medium sand, 10% silt, dense, wet.
		2.3		19				<b>Silty SAND (SM)</b> - brownish green, 80% fine to medium sand, 20% silt, dense, wet.
		0		20				<b>Lean CLAY (CL)</b> - reddish brown, 90% clay, 10% sand, stiff, low plasticity, moist.
		0		21				
		0.0		22				
		26.1						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/9/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **28 feet**

Boring No: **SB-13**  
 Page 2 of 2



▽ First Water Depth: 14.5 feet  
 ▼ Static Water Depth: 14.2 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

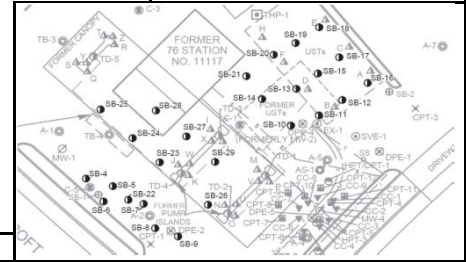
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill		251	SB-13d23.5	23			<b>Silty SAND with Gravel (SM)</b> - green, 55% fine to coarse sand, 25% silt, 20% fine gravel, dense, moist.	
		511		24				Limited recovery, liner shredded, recovered out of order
		30.5		25				
		330		26			Total depth 28 feet, refusal from 7 feet of slough	
				27				
				28				
				29				
				30				
				31				
				32				
				33				
				34				
				35				
				36				
				37				
				38				
				39				
				40				
				41				
				42				
				43				
				44				



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/10/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-14**  
 Page 1 of 2



▽ First Water Depth: 22.2 feet  
 ▼ Static Water Depth: 18.7 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

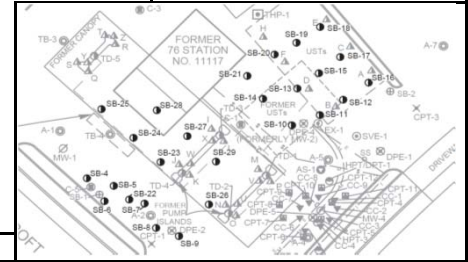
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded SAND with Gravel (FILL) - brown, 70% fine to coarse sand, 25% fine to coarse gravel, 5% silt, dense, dry.
				2				
				3				
				4				
		0	SB-14d5.5	5				Lean CLAY (CL) - brown, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
		0.8		6				Clayey SAND with Gravel (SC) - brown, 65% fine to medium sand, 20% clay, 15% fine gravel, dense, moist.
		0		7				Lean CLAY (CL) - brown, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
		0		8				Lean CLAY (CL) - greyish brown, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
		0		9				Lean CLAY with Sand (CL) - greyish brown, 80% clay, 20% fine to medium sand, low plasticity, stiff, moist.
		0	SB-14d10.5	10				Clayey SAND (SC) - brown, 80% fine to medium sand, 20% clay, dense, moist.
		0.4		11				Clayey SAND (SC) - brown, 60% fine to medium sand, 40% clay, dense, moist.
		1.6		12				Clayey SAND (SC) - grey mottled green, 60% fine to medium sand, 35% clay, 5% fine gravel, dense, moist.
		4.7		13				
		27		14				
		62.2	SB-14d15	15				Clayey SAND (SC) - brown mottled greenish grey, 60% fine to medium sand, 35% clay, 5% fine gravel, dense, moist.
		7.3		16				
		8.7		17				Clayey SAND (SC) - brown, 60% fine to medium sand, 35% clay, 5% fine gravel, dense, moist.
		6.4		18				
		232		19				
		27.7		20				
		14.2	SB-14d21	21				
		95		22				Poorly graded SAND (SP) - greenish grey, 95% medium sand, 5% silt, dense, wet.
		30.2						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/10/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-14**  
 Page 2 of 2



▽ First Water Depth: 22.2 feet  
 ▼ Static Water Depth: 18.7 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

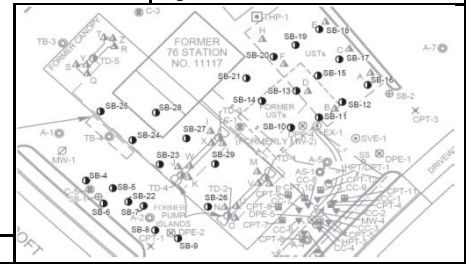
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	18.7	61	SB-14d32	23			
		30.9		24			Well graded SAND (SW) - greenish grey, 95% fine to coarse sand, 5% silt, dense, wet.
				25			
				26			
				27			Limited recovery (sample out of liner)
		57.9		28			
				29			
				30			
		45.3		31			Well graded SAND (SW) - greenish grey, 95% fine to coarse sand, 5% silt, dense, wet.
		80.9		32			Total Depth 32 feet, refusal due to slough
				33			
				34			
				35			
				36			
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/10/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **24 feet**

Boring No: **SB-15**  
 Page 1 of 2



▽ First Water Depth: 17 feet  
 ▼ Static Water Depth: 14.6 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

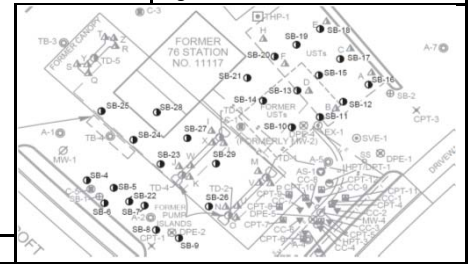
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded SAND with Gravel (FILL) - brown, 60% fine to coarse sand, 35% fine to coarse gravel, 5% silt, dense, dry.
				2				
				3				
				4				
		0.1	SB-15d5.5	5				Well Graded SAND (FILL) - brown, 90% fine to medium sand, 5% fine gravel, 5% silt, dense, dry.
		1.8		6				
		1.0		7				
		1.3		8				
		1.4		9				
		3.8		10				
		6.8		11				
		4.3		12				
		7.8		13				
		12.8		14				
	▽	14.5		15				
		12.8	SB-15d16	16				Lean CLAY (FILL) - brown, 90% clay, 10% fine sand, stiff, low plasticity, moist.
		5.0		17				
		8.2		18				Well Graded SAND (FILL) - brown, 70% fine to coarse sand, 30% fine gravel, medium dense, wet.
		611.0		19				
		111		20				Clayey SAND (SC) - grey, 70% fine sand, 30% clay, dense, moist.
		1,199	SB-15d20	21				Clayey SAND (SC) - grey, 70% fine to coarse sand, 30% clay, dense, moist, hydrocarbon odor.
		703		22				Clayey SAND (SC) - brown, 60% fine to coarse sand, 25% clay, 15% fine gravel, dense, moist, hydrocarbon odor.
		1,467						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/10/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **24 feet**

Boring No: **SB-15**  
 Page 2 of 2



▽ First Water Depth: 17 feet

▼ Static Water Depth: 14.6 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill		1,522 1,346 633.0 67.7	SB-15d24	23			<b>Clayey SAND (SC)</b> - grey with green, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet.
				24			Total Depth 24 feet, refusal due to slough
				25			
				26			
				27			
				28			
				29			
				30			
				31			
				32			
				33			
				34			
				35			
				36			
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			

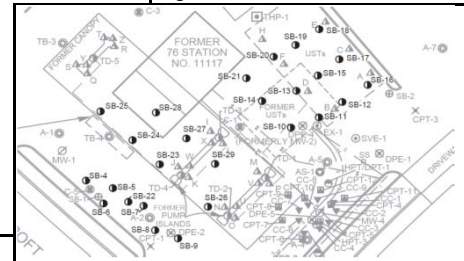




Project No: **I4261117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/10/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **28 feet**

Boring No: **SB-16**  
 Page 1 of 2



▽ First Water Depth: 15.8 feet  
 ▼ Static Water Depth: 14.7 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

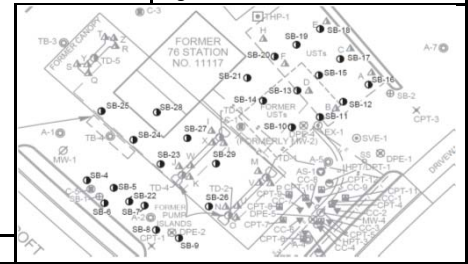
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement			Hand Auger	1				Well Graded SAND with Gravel (FILL) - brown, 60% fine to coarse sand, 35% fine to coarse gravel, 5% silt, dense, dry.
			SB-16d5.5	2				
				3				
				4				
		0		5				Well Graded SAND with Gravel (FILL) - brown, 60% fine to coarse sand, 35% fine to coarse gravel, 5% silt, dense, dry.
		0		6				
		0.1		7				
		0		8				
		0		9				
		1.9	SB-16d10.5	10				Lean CLAY (FILL) - brown, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
		1.5		11				Well Graded SAND with Gravel (FILL) - brown, 60% fine to coarse sand, 35% fine to coarse gravel, 5% silt, dense, dry.
		1.4		12				
		0.3		13				
		1.0		14				
	▼	1.4		15				
	▽	0.8	SB-16d16	16				
				17				
				18				
		0		19				Poorly graded GRAVEL (FILL) - grey, 80% fine gravel, 20% medium to coarse sand, loose wet.
				20				Clayey SAND (SC) - brown, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet.
				21				
		0		22				Clayey SAND with Gravel (SC) - greyish green, 60% fine to coarse sand, 20% clay, 20% fine gravel, dense, wet.



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/10/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **28 feet**

Boring No: **SB-16**  
 Page 2 of 2



▽ First Water Depth: 15.8 feet  
 ▼ Static Water Depth: 14.7 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

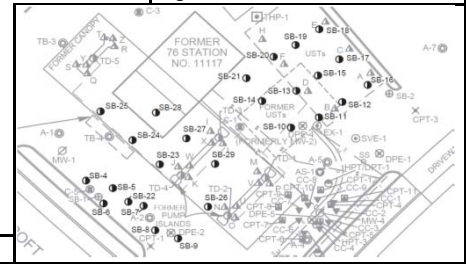
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill		0.7	SB-16d28	23			<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 30% clay, dense, wet.
		1.4		24			<b>Clayey SAND (SC)</b> - brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, moist.
		0		25			<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, moist.
		0		26			<b>Clayey SAND with Gravel (SC)</b> - brown, 70% fine to coarse sand, 15% clay, 15% fine gravel, dense, moist.
		0		27			<b>Lean CLAY with Gravel (CL)</b> - brown, 85% clay, 10% fine gravel, 5% fine to coarse sand, low plasticity, very stiff, moist.
		0		28			Total Depth 28 feet, refusal due to slough
				29			
				30			
				31			
				32			
			33				
			34				
			35				
			36				
			37				
			38				
			39				
			40				
			41				
			42				
			43				
			44				



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/13/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **28 feet**

Boring No: **SB-17**  
 Page 1 of 2



▽ First Water Depth: 16.5 feet  
 ▼ Static Water Depth: 16.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

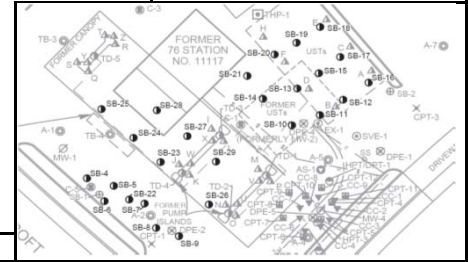
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded SAND with Gravel (FILL) - grey, 60% fine to coarse sand, 40% fine to coarse gravel, dense, dry.
			SB-17d5.5	2				
				3				
				4				
		0		5				Well Graded SAND with Gravel (FILL) - brown, 70% fine to coarse sand, 30% fine to coarse gravel, dense, dry.
		0		6				
		0		7				
		0		8				
		0		9				Well Graded SAND with Gravel (FILL) - brown, 75% fine to coarse sand, 20% fine to coarse gravel, 5% silt, dense, dry.
		0		10				
		1.3		11				
		0.9		12				Well Graded SAND (FILL) - brown, 85% fine to coarse sand, 10% fine gravel, 5% silt, dense, dry.
		0		13				
		0.8		14				
		0		15				
		0		16				
		0		17				Well Graded SAND with Gravel (FILL) - brown, 80% medium to coarse sand, 20% fine gravel, loose, dry.
		0		18				
		27.0		19				
		862	SB-17d19.5	19				Sandy Lean CLAY (CL) - grey to greenish grey, 70% clay, 30% fine to coarse sand, stiff, wet, hydrocarbon odor.
		2,937		20				
		318		21				Sandy Lean CLAY (CL) - greenish grey, 60% clay, 40% fine to coarse sand, stiff, wet, hydrocarbon odor.
		3,360	SB-17d22	21				Clayey SAND (SC) - grey, 60% fine to medium sand, 40% clay, dense, wet, hydrocarbon odor.
				22				



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/13/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-17**  
 Page 2 of 2



▽ First Water Depth: 16.5 feet  
 ▼ Static Water Depth: 16.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

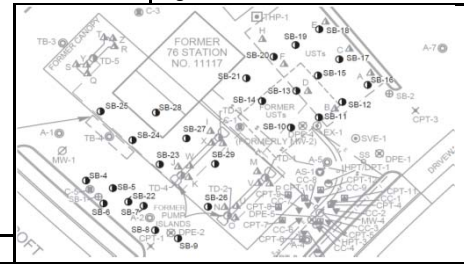
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill		2,388 1,903 130	SB-17d28	23			<b>Clayey SAND (SC)</b> - grey, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, wet, hydrocarbon odor.
				24			
				25			
		1,052		26			<b>Clayey SAND (SC)</b> - brown, greenish grey, 75% fine to coarse sand, 25% clay, dense, wet, hydrocarbon odor.
		385		27			<b>Clayey SAND (SC)</b> - brown, greenish grey, 75% fine to coarse sand, 25% clay, dense, moist, hydrocarbon odor.
		363		28			<b>Clayey SAND (SC)</b> - brown, greenish grey, 75% fine to coarse sand, 25% clay, dense, moist, hydrocarbon odor.
		8.8		29			
				30			
				31			entire sample from 28 to 32 feet appears to be slough
				32			Total Depth 32 feet, refusal due to slough
				33			
				34			
				35			
				36			
			37				
			38				
			39				
			40				
			41				
			42				
			43				
			44				



Project No: **I4261117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/13/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-18**  
 Page 1 of 2



▽ First Water Depth: 17.2 feet  
 ▼ Static Water Depth: 17.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

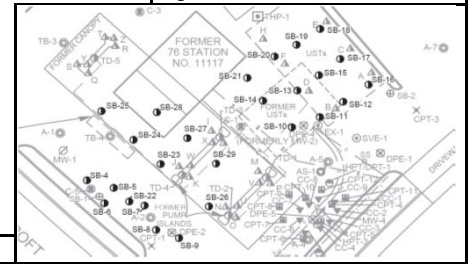
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded SAND with Gravel (FILL) - grey, 60% fine to coarse sand, 40% fine to coarse gravel, dense, dry.
				2				
				3				
				4				
		4.6	SB-18d5.5	5				
		6.4		6				Well Graded SAND (FILL) - brown, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, moist.
		0.9		7				
		1.1		8				
		0		9				
		0.1		10				
		0		11				
		0		12				
		0		13				
		0		14				
		0.6		15				
		0		16				Piece of Geo-fabric at 16 feet
			SB-18d17.5	17				Well Graded SAND with Gravel (FILL) - brown, 70% medium to coarse sand, 30% fine gravel, loose, wet.
		0		18				
		0	SB-18d19	19				Clayey SAND (SC) - brown, 60% fine to coarse sand, 40% clay, dense, wet.
		0		20				
		0		21				
		0		22				



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/13/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-18**  
 Page 2 of 2



▽ First Water Depth: 17.2 feet  
 ▼ Static Water Depth: 17.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

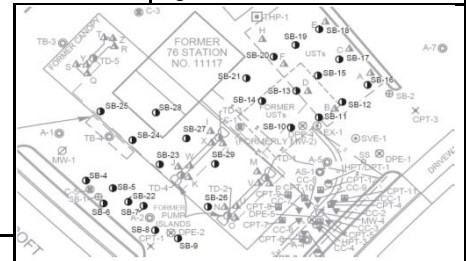
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill		0	SB-18d24	23			Clayey SAND (SC) - brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, wet.
		0		24			
				25			
				26			
				27			
				28			Liner stuck in rod from 24 to 28 feet recovered material appears to be slough, no PID hits.
				29			
				30			All slough from 28 to 32 feet
				31			
				32			Total Depth 32 feet, refusal from slough
				33			
				34			
				35			
				36			
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/13/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-19**  
 Page 1 of 2



▽ First Water Depth: 15.7 feet  
 ▼ Static Water Depth: 17.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

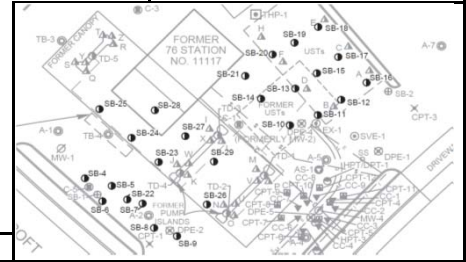
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				Well Graded SAND with Gravel (FILL) - grey, 60% fine to coarse sand, 40% fine to coarse gravel, very dense, dry.
				2				
				3				
				4				
		0	SB-19d5.5	5				Silty SAND (FILL) - brown, 75% fine to coarse sand, 20% silt, 5% fine gravel, dense, dry.
		0		6				
		0		7				
		0		8				Well Graded SAND (FILL) - brown, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, dry.
		0		9				
		0		10				
		0		11				
		0		12				
		0		13				
		0		14				
		0		15				Well Graded SAND (FILL) - brown, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, dry.
		0	SB-19d16	16				Clayey GRAVEL with Sand (FILL) - brown, 50% fine gravel, 30% clay, 20% fine to coarse sand, dense, wet
		0		17				Poorly Graded GRAVEL with Sand (FILL) - grey, 65% fine gravel, 35% fine to coarse sand, dense, wet.
		0		18				Clayey SAND (SC) - brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, wet.
		1.1		19				Lean CLAY with Sand (CL) - brown, 85% clay, 15% fine to coarse sand, low plasticity, stiff, moist.
		0.5		20				
		0		21				Lean CLAY with Sand (CL) - brown, 85% clay, 15% fine to coarse sand, low plasticity, stiff, moist.
		0	SB-19d22.5	22				



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/13/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-19**  
 Page 2 of 2



▽ First Water Depth: 15.7 feet  
 ▼ Static Water Depth: 17.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill		0		23			<b>Clayey SAND (SC)</b> - brown, 55% fine to coarse sand, 40% clay, 5% fine gravel, dense, wet.
		0		24			
		0		25			
		0		26			
		0.6		27			<b>Clayey SAND (SC)</b> - greenish grey, 55% fine to coarse sand, 40% clay, 5% fine gravel, dense, wet.
		0		28			
		259.0		29			<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet, hydrocarbon odor.
		82.4		30			<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, very stiff to hard, low plasticity, moist.
		2.9		31			
		1.8		32			
				33			
		861		34			<b>Clayey SAND (SC)</b> - greenish grey, 80% fine to coarse sand, 15% clay, 5% fine gravel, dense, wet, hydrocarbon odor.
		322		35			<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, very stiff to hard, low plasticity, moist.
		2.4		36			Total Depth 35 feet
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			

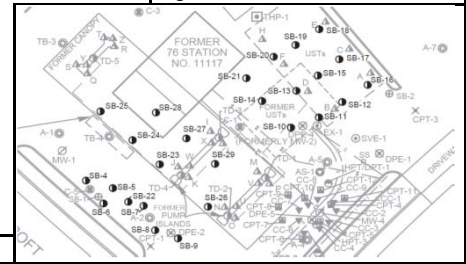




Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/14/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-20**  
 Page 1 of 2



▽ First Water Depth: 15.75 feet  
 ▼ Static Water Depth: 16.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

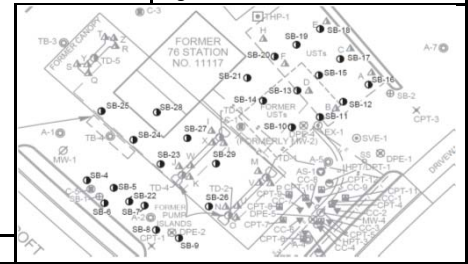
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement				1				Well Graded SAND with Gravel (FILL) - grey, 55% fine to coarse sand, 40% fine to coarse gravel, 5% silt, dense, dry.
			Hand Auger	2				
				3				
				4				
		7.1	SB-20d5.5	5				Well Graded SAND (FILL) - grey, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, moist.
		0		6				
		0		7				Lean CLAY (FILL) - brown, 90% clay, 10% fine to coarse sand, low plasticity, stiff, moist.
		0.4		8				Well Graded SAND (FILL) - grey, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, moist.
		0		9				
		0		10				
		0		11				
		0		12				
		0		13				
		0		14				
		0		15				
		0	SB-20d16	16				Well Graded SAND (FILL) - grey, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, wet.
		0		17				
		1.3		18				Poorly Graded GRAVEL with Sand (FILL) - grey, 80% fine gravel, 20% medium to coarse sand, loose, wet.
		0	SB-20d19.5	19				Clayey SAND (SC) - brown, 60% fine to coarse sand, 40% clay, dense, wet.
		0		20				Lean CLAY (CL) - brown, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
		0		21				
		0		22				Lean CLAY with Sand (CL) - brown, 80% clay, 20% fine to coarse sand, low plasticity, stiff, moist.



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/14/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-20**  
 Page 2 of 2



▽ First Water Depth: 15.75 feet  
 ▼ Static Water Depth: 16.0 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

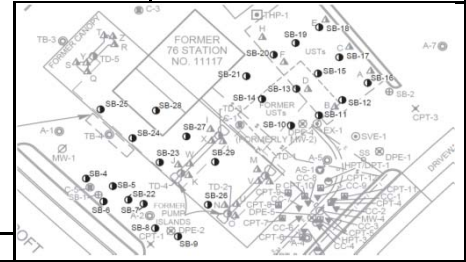
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	16.0	0	SB-20d24	23		[Symbol]	<b>Clayey SAND (SC)</b> - brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, wet.
		0.4		24			24-28 feet: sample stuck in core tube
Backfill	16.0	0	SB-20d32	31		[Symbol]	<b>Well Graded SAND (SW)</b> - brown, 95% fine to medium sand, 5% silt, very dense, wet.
		26		32			<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 30% clay, 5% fine gravel, very dense, wet, hydrocarbon odor.
Backfill	16.0	244		32			Total depth 32 feet, refusal from slough (caved in to 25 feet)
				33			
Backfill	16.0			34			
				35			
Backfill	16.0			36			
				37			
Backfill	16.0			38			
				39			
Backfill	16.0			40			
				41			
Backfill	16.0			42			
				43			
Backfill	16.0			44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/14/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-21**  
 Page 1 of 2



▽ First Water Depth: 19 feet  
 ▼ Static Water Depth: 23 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

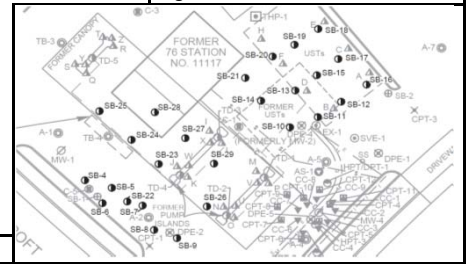
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
				1				<b>Well Graded SAND with Gravel (SW)</b> - grey, 90% fine to coarse sand, 5% fine to coarse gravel, 5% silt, dense, dry.
			Hand Auger	2				<b>Lean CLAY (CL)</b> - brown, 90% clay, 10% fine to coarse sand, low plasticity, stiff, moist.
				3				<b>Lean CLAY (CL)</b> - brown, 90% clay, 10% fine to coarse sand, low plasticity, stiff, moist.
				4				<b>Silt (ML)</b> - brown, 90% silt, 10% fine to coarse sand, dense, dry.
		0	SB-21d5.5	5				<b>Silt (ML)</b> - brown, 95% silt, 5% fine to medium sand, dense, dry.
		0		6				<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, low plasticity, very stiff, moist.
		0		7				<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, low plasticity, very stiff, moist.
		0		8				<b>Lean CLAY (CL)</b> - brown, 80% clay, 20% fine to medium sand, low plasticity, very stiff, moist.
		0		9				<b>Clayey SAND (SC)</b> - brown, 65% fine to coarse sand, 35% clay, dense, moist.
		0		10				<b>Clayey SAND (SC)</b> - brown, 65% fine to coarse sand, 35% clay, dense, moist.
		0		11				<b>Clayey SAND (SC)</b> - brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, moist.
		0		12				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		0		13				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		2.6		14				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		13.6		15				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		3.1		16				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		44.5		17				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		20.2		18				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, moist.
		16.2	SB-21d19.5	19				<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 20% clay, 10% fine gravel, dense, wet.
		0		20				<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, low plasticity, very stiff, moist.
		4		21				<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, low plasticity, very stiff, moist.
		0		22				<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, low plasticity, very stiff, moist.



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/14/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-21**  
 Page 2 of 2



▽ First Water Depth: 19 feet  
 ▼ Static Water Depth: 23 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

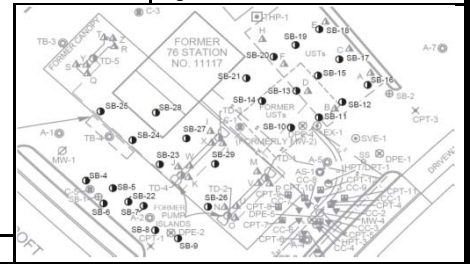
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	▼	0		23			<b>Clayey SAND (SC)</b> - brown, 60% fine to medium sand, 40% clay, dense, wet.
		0		24			
				25			
				26			
				27			
		56		28			
		24.8		29			<b>Clayey SAND (SC)</b> - grey and brown, 60% fine to medium sand, 40% clay, dense, wet.
		125		30			<b>Clayey SAND (SC)</b> - brown, 60% fine to medium sand, 40% clay, dense, wet.
		1.4		31			<b>Lean CLAY (CL)</b> - brown, 95% clay, 5% fine to medium sand, low plasticity, stiff, moist.
		152		32			<b>Clayey SAND (SC)</b> - grey, 80% fine to coarse sand, 20% clay, medium dense, wet.
		203	SB-21d32	32			
				33			
				34			<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 30% clay, medium dense, wet.
		15.8	SB-21d35	35			<b>Clayey SAND (SC)</b> - grey, 70% fine to coarse sand, 30% clay, medium dense, wet.
				36			Total depth 35 feet
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/14/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-22**  
 Page 1 of 2



▽ First Water Depth: 19 feet  
 ▼ Static Water Depth: N/A

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

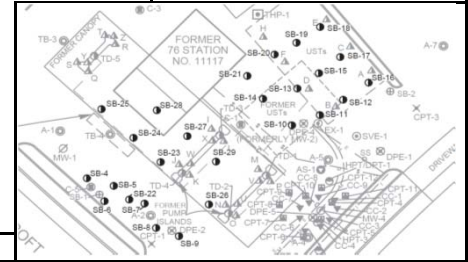
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
				1				Poorly graded <b>GRAVEL (GP)</b> - grey, 90% fine gravel, 10% fine to coarse sand, dense, dry.
			Hand Auger	2				<b>Lean CLAY (CL)</b> - black, 95% clay, 5% fine to medium sand, low plasticity, stiff, moist.
				3				
				4				
		0.7	SB-22d5.5	5				<b>Sandy Silt (ML)</b> - brown, 70% silt, 30% fine to coarse sand, very dense, dry.
		0.2		6				
		0.2		7				
		0.2		8				
		0		9				<b>Sandy Silt (ML)</b> - greyish brown, 70% silt, 30% fine to coarse sand, very dense, moist.
		0		10				<b>Silt (ML)</b> - greyish brown, 95% silt, 5% fine to coarse sand, very dense, moist.
		0		11				<b>Sandy Silt (ML)</b> - brown, 65% silt, 35% fine to coarse sand, very dense, moist.
		0		12				<b>Silt with Sand (ML)</b> - brown, 80% silt, 20% fine to medium sand, very dense, moist.
		0		13				
		0		14				
		2.4		15				<b>Silt with Sand (ML)</b> - grey, 80% silt, 20% fine to medium sand, very dense, moist.
		6.9	SB-22d15.5	16				
		23.3		17				
		27.1		18				<b>Sandy Silt (ML)</b> - grey, reddish brown, and green, 60% silt, 40% fine to coarse sand, very dense, moist.
		32.9		19				<b>Silty SAND (SM)</b> - greenish grey, 60% fine to coarse sand, 40% silt, dense, moist, wet at 19 feet.
		48.4	SB-22d19.5	20				
		38.6		21				
		21.6		22				
		4.9						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/14/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-22**  
 Page 2 of 2



▽ First Water Depth: 19 feet  
 ▼ Static Water Depth: N/A

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

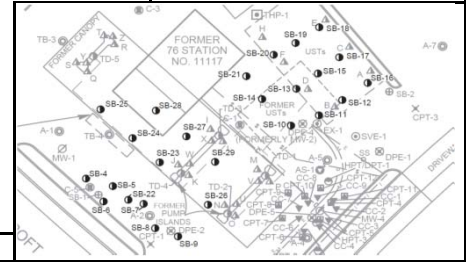
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Static Water Level	4.0	SB-22d29.5	23			<b>Clayey SAND (SC)</b> - grey and green, 60% fine to coarse sand, 40% clay, dense, wet.
		15.5		24			<b>Clayey SAND (SC)</b> - grey and green, 60% fine to coarse sand, 40% clay, dense, wet.
		70.2		25			<b>Clayey SAND (SC)</b> - grey and green, 60% fine to coarse sand, 40% clay, dense, wet.
		198		26			<b>Clayey SAND (SC)</b> - greenish grey, 60% fine to coarse sand, 40% clay, dense, wet, hydrocarbon odor.
		438		27			<b>Clayey SAND (SC)</b> - greenish grey, 60% fine to coarse sand, 40% clay, dense, wet, hydrocarbon odor.
		235		28			<b>Clayey SAND (SC)</b> - greenish grey, 60% fine to coarse sand, 40% clay, dense, wet, hydrocarbon odor.
		462		29			<b>Well Graded SAND (SW)</b> - greenish grey, 95% fine to coarse sand, 5% silt, dense, wet, hydrocarbon odor.
		809		30			<b>Clayey SAND (SC)</b> - greenish grey, 85% fine to coarse sand, 15% clay, dense, wet, hydrocarbon odor.
		989		31			<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 35% clay, dense, wet, hydrocarbon odor.
		264		32			<b>Clayey SAND (SC)</b> - greenish grey, 80% fine to coarse sand, 20% clay, dense, wet, hydrocarbon odor.
681	33			<b>Well Graded SAND (SW)</b> - grey, 95% fine to coarse sand, 5% clay, dense, wet, hydrocarbon odor.			
695	34			<b>Clayey SAND (SC)</b> - greenish grey fades to brownish grey by 35 feet, 85% fine to coarse sand, 15% clay, very dense, wet, hydrocarbon odor.			
752	35	SB-22d35	35			<b>Clayey SAND (SC)</b> - greenish grey fades to brownish grey by 35 feet, 85% fine to coarse sand, 15% clay, very dense, wet, hydrocarbon odor.	
106	36					Total depth 35 feet	
106	37						
571	38						
571	39						
1,062	40						
1,062	41						
1,062	42						
1,062	43						
1,062	44						



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/15/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-23**  
 Page 1 of 2



▽ First Water Depth: 22 feet  
 ▼ Static Water Depth: 19 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

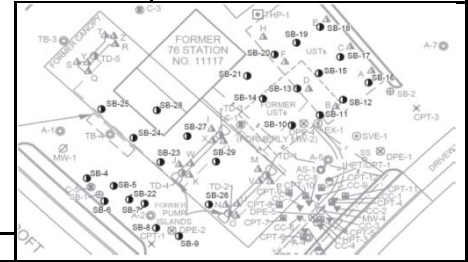
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				<b>Well Graded SAND with Gravel (SW)</b> - grey, 60% fine to coarse sand, 40% fine gravel, dense, dry.
				2				<b>Poorly Graded SAND (SP)</b> - grey, 60% coarse sand, 40% fine gravel (Pea gravel on side of the hole), dense, dry.
				3				
				4				
		44.2	SB-23d5.5	5				<b>Lean CLAY with Sand (CL)</b> - brown, 85% clay, 15% fine to coarse sand, very stiff, low plasticity, moist.
		2.2		6				
		2.6		7				<b>Sandy SILT (ML)</b> - brown, 60% silt, 40% fine to coarse sand, dense, moist.
		4.7		8				<b>Lean CLAY with Sand (CL)</b> - brown, 85% clay, 15% fine to coarse sand, stiff, low plasticity, moist.
		1.1		9				
		0.2		10				<b>Sandy lean CLAY (CL)</b> - brown, 70% clay, 30% fine to coarse sand, stiff, low plasticity, moist.
		1.0		11				<b>Clayey SAND (SC)</b> - grey, 60% fine to coarse sand, 40% clay, stiff, low plasticity, moist.
		3.5		12				<b>Clayey SAND (SC)</b> - grey, 75% fine to coarse sand, 25% clay, stiff, low plasticity, moist.
		15.8		13				<b>Clayey SAND (SC)</b> - grey, 65% fine to coarse sand, 35% clay, stiff, low plasticity, moist, hydrocarbon odor.
		2.9		14				<b>Clayey SAND (SC)</b> - mottled brown and green, 70% fine to coarse sand, 25% clay, 5% fine gravel, stiff, low plasticity, moist, hydrocarbon odor.
		9.6		15				<b>Clayey SAND (SC)</b> - greyish green, 60% fine to coarse sand, 35% clay, 5% fine gravel, stiff, low plasticity, moist, hydrocarbon odor.
		263	SB-23d15.5	16				<b>Clayey SAND (SC)</b> - green, 75% fine to coarse sand, 20% clay, 5% fine gravel, stiff, low plasticity, moist, hydrocarbon odor.
		730		17				<b>Clayey SAND (SC)</b> - green, 55% fine to coarse sand, 40% clay, 5% fine gravel, stiff, low plasticity, moist, hydrocarbon odor.
		1,265		18				<b>Clayey SAND (SC)</b> - green, 80% fine to coarse sand, 15% clay, 5% fine gravel, stiff, low plasticity, moist, hydrocarbon odor.
		1,719		19				<b>Clayey SAND (SC)</b> - green, 85% fine to coarse sand, 15% clay, stiff, low plasticity, wet, hydrocarbon odor.
		1,800		20				
		710		21				
		1,762		22				
		1,585						
		1,713						
		1,910						
		2,018						
		1,881	SB-23d22.5					



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/15/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-23**  
 Page 2 of 2



▽ First Water Depth: 22 feet  
 ▼ Static Water Depth: 19 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Backfill	19 feet	1,514	SB-23d25.5	23			Lean CLAY (CL) - green, 95% clay, 5% fine to medium sand, stiff, low plasticity, moist.		
		2,316		24			Clayey SAND (SC) - green, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, moist.		
		1,730		25			Clayey SAND (SC) - green, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, moist.		
		2,661		26			Lean CLAY (CL) - brown, 95% clay, 5% fine to medium sand, stiff, low plasticity, moist.		
		1,219		27			Poorly Graded SAND (SP) - green, 95% medium sand, 5% clay, dense, wet.		
		2,259	SB-23d30.5	1,740	29			Clayey SAND (SC) - brown and green, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, moist.	
		730		30			Sandy Lean CLAY (CL) - green and brown, 70% clay, 30% fine to coarse sand, stiff, low plasticity, moist.		
		813		31			Lean CLAY with Sand (CL) - brown, 80% clay, 20% fine to coarse sand, medium stiff, medium plasticity, moist.		
		1,765		32			Sandy Lean CLAY (CL) - brown, 60% clay, 40% fine to coarse sand, medium stiff, medium plasticity, moist.		
		1,601		34			Clayey SAND (SC) - green, 70% fine to coarse sand, 30% clay, dense, wet, hydrocarbon odor.		
		615	SB-23d35	35				Total depth 35 feet, refusal from slough	
						36			
						37			
						38			
						39			
						40			
						41			
						42			
						43			
						44			

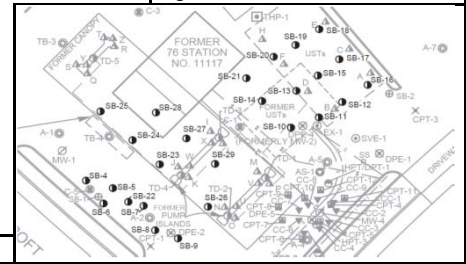




Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/15/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-24**  
 Page 1 of 2



▽ First Water Depth: 19.5 feet  
 ▼ Static Water Depth: 25 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

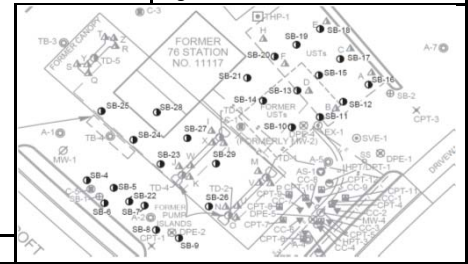
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill									
Neat Cement				1				Fill - grey, 60% fine to coarse sand, 40% fine gravel, dense, dry.	
				2				Poorly Graded SAND with Gravel (SP) - grey, 60% coarse sand, 40% fine gravel (P gravel on side of the hole), dense, dry.	
				3					
				4					Lean CLAY with Sand (CL) - brown, 85% clay, 15% fine to coarse sand, very stiff, low plasticity, moist.
		29.6	SB-24d5.5	5					Well Graded SAND with Silt (SW-SM) - brown, 90% fine to coarse sand, 10% silt, medium dense, moist.
		12.6		6					Clayey SAND (SC) - dark brown, 60% fine to coarse sand, 40% clay, dense, moist.
		6.2		7					
		5.9		8					
		0.3		9					
		0.3		10					Lean CLAY with Sand (CL) - brown, 75% clay, 25% fine to coarse sand, low plasticity, stiff, moist.
		0.2		11					Lean CLAY with Sand (CL) - greyish brown, 75% clay, 25% fine to coarse sand, low plasticity, stiff, moist.
		0.3		12					Clayey SAND (SC) - grey, 60% fine to coarse sand, 30% clay, 10% fine gravel, dense, moist.
		95.4		13					Clayey SAND (SC) - grey, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, moist.
		10		14					Clayey SAND (SC) - greenish grey, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, moist.
		5.5		15					
		34		16					
		54		17					
		37		18					
		23.3		19					
		24.9	SB-24d19.5	20					Clayey SAND (SC) - greenish grey, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, wet.
		595		21	SB-24d21				Clayey SAND (SC) - brown with grey mottling, 75% fine to coarse sand, 20% clay, 5% fine gravel, dense, moist.
		1122		22					
112.7									



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/15/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-24**  
 Page 2 of 2



▽ First Water Depth: 19.5 feet  
 ▼ Static Water Depth: 25 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

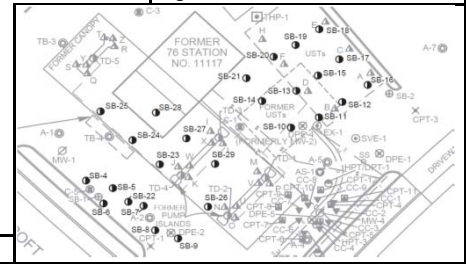
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Static Water Level	250.9	SB-24d25	23			
		479		24			<b>Well Graded SAND with Clay (SW-SC)</b> - greyish brown, 90% fine to coarse sand, 10% clay, medium dense, wet.
		617		25			<b>Clayey SAND (SC)</b> - brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet.
		377		26			<b>Well Graded SAND (SW)</b> - greyish brown, 95% fine to coarse sand, 5% clay, medium dense, wet.
		860		27			<b>Clayey SAND (SC)</b> - brown, 65% fine to coarse sand, 15% clay, 5% fine gravel, dense, wet.
		67.7		28			<b>Sandy lean CLAY (CL)</b> - brown, 70% clay, 30% fine to medium sand, low plasticity, medium stiff, moist.
		190		29			<b>Clayey SAND (SC)</b> - brown, 75% fine to coarse sand, 20% clay, 5% fine gravel, medium dense, moist.
		99		30			<b>Clayey SAND (SC)</b> - brown, 60% fine to coarse sand, 40% clay, medium dense, wet.
		55.8		31			<b>Poorly Graded SAND with Clay (SP-SC)</b> - brown, 90% medium sand, 10% clay, low density, wet.
		55.8		32			<b>Clayey SAND (SC)</b> - grey, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, wet.
53.5	33			<b>Clayey SAND (SC)</b> - brown, 85% fine to coarse sand, 15% clay, loose, wet.			
263	34	SB-24d35	34			<b>Clayey SAND (SC)</b> - brown, 65% fine to coarse sand, 35% clay, medium dense, wet.	
30.6	35				<b>Poorly Graded SAND (SP)</b> - grey, 95% fine sand, 5% silt, medium density, moist.		
		7.9		35		Total depth 35 feet	
				36			
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/15/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-25**  
 Page 1 of 2



▽ First Water Depth: 21.5 feet  
 ▼ Static Water Depth: 18 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

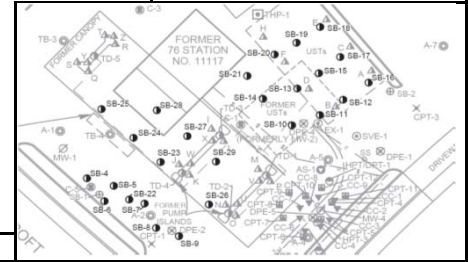
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
Neat Cement				1				Fill - grey, 60% fine to coarse sand, 40% fine gravel, dense, dry.	
				2				Poorly Graded SAND (SP) - grey, 60% coarse sand, 40% fine gravel (P gravel on side of the hole), dense, dry	
				3					
				4					Lean CLAY with Sand (CL) - brown, 85% clay, 15% fine to coarse sand, very stiff, low plasticity, moist.
			0	SB-25d5.5	5				SILT (ML) - dark brown, 90% silt, 10% fine to coarse sand, dense, moist.
			0		6				
			0.2		7				SILT (ML) - brown, 90% silt, 10% fine to coarse sand, dense, moist.
			0		8				
			0		9				
			0		10				Lean CLAY (CL) - brown, 90% clay, 10% fine to coarse sand, very stiff, low plasticity, moist.
			0.1		11				Lean CLAY (CL) - grey, 95% clay, 5% fine to medium sand, very stiff, low plasticity, moist.
			9.1		12				Clayey SAND (SC) - brownish grey, 60% fine to coarse sand, 30% clay, 10% fine gravel, dense, moist.
			24		13				Clayey SAND (SC) - mottled brown and grey, 80% fine to medium sand, 20% clay, dense, moist.
			13.4		14				Clayey SAND (SC) - grey, 80% fine to medium sand, 20% clay, dense, moist.
			14.4	SB-25d15	15				Clayey SAND (SC) - grey, 75% fine to medium sand, 20% clay, 5% fine gravel, dense, moist.
			18.3		16				
			26.1		17				Clayey SAND (SC) - grey mottled brown, 75% fine to medium sand, 20% clay, 5% fine gravel, dense, moist.
			4.9		18				Clayey SAND (SC) - brown and grey, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, moist.
			6.7		19				
			3.4		20				Clayey SAND (SC) - brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, moist.
			48.0		21				
			9.1	SB-25d22	22				Clayey SAND (SC) - brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet.



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/15/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-25**  
 Page 2 of 2



▽ First Water Depth: 21.5 feet  
 ▼ Static Water Depth: 18 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

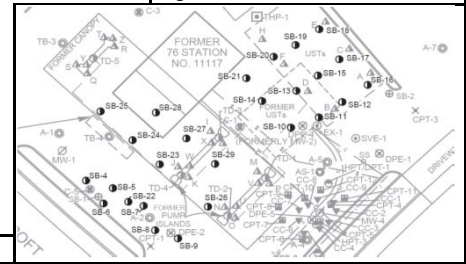
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	18 feet	5.7	SB-25d26	23			<b>Clayey SAND (SC)</b> - brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, dense, wet.
		11.7		24			<b>Clayey SAND (SC)</b> - brown, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet.
		56.3		25			<b>Clayey SAND (SC)</b> - green, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet.
		0.4		26			<b>Well Graded SAND (SW)</b> - grey, 100% fine to coarse sand, dense, wet.
		39.6		27			<b>Clayey SAND (SC)</b> - mottled brown and green, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet.
		0.1		28			<b>Clayey SAND (SC)</b> - greyish brown, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet.
		34.4		29			<b>Clayey SAND (SC)</b> - greyish brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet.
		4.1		30			<b>Clayey SAND (SC)</b> - greyish brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, dense, wet.
		29.5		31			<b>Sandy lean CLAY (CL)</b> - brown mottled grey, 60% clay, 35% fine to coarse sand, 5% fine gravel, very stiff, low plasticity, moist.
		12.1		32			<b>Lean CLAY with Sand (CL)</b> - brown, 80% clay, 10% fine to coarse sand, 10% fine gravel, very stiff, low plasticity, moist.
3.4	33			<b>Lean CLAY with Sand (CL)</b> - brown mottled grey, 75% clay, 20% fine to coarse sand, 5% fine gravel, very stiff, low plasticity, moist.			
17.1	34			<b>Lean CLAY with Sand (CL)</b> - brown mottled grey, 75% clay, 20% fine to coarse sand, 5% fine gravel, very stiff, low plasticity, moist.			
7.7	35	SB-25d35			<b>Clayey SAND (SC)</b> - grey, 70% fine to coarse sand, 30% clay, dense, wet.		
				36			Total depth 35 feet
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/16/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-26**  
 Page 1 of 2



▽ First Water Depth: 17.75 feet  
 ▼ Static Water Depth: 20 feet

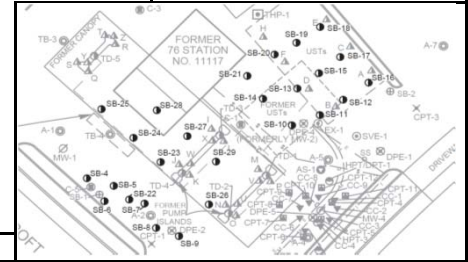
Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill									
Neat Cement				1				Fill - grey, 90% fine to coarse gravel, 10% fine to coarse sand, very dense, wet.	
				2				Lean CLAY (CL) - dark grey, 90% clay, 10% fine sand, low plasticity, very stiff, dry.	
				3				Lean CLAY (CL) - brown, 90% clay, 10% fine sand, low plasticity, very stiff, dry.	
				4				SILT with Sand (ML) - brown, 85% silt, 15% fine to coarse sand, dense, dry.	
				5	SB-26d5.5				Lean CLAY (CL) - brown, 90% clay, 10% fine to medium sand, medium stiff, low plasticity, moist.
				6					
				7					Clayey SAND (SC) - grey, 60% fine to medium sand, 40% clay, medium dense, moist.
				8					Clayey SAND (SC) - greyish brown, 60% fine to medium sand, 40% clay, medium dense, moist.
				9					Clayey SAND (SC) - greyish brown, 55% fine to medium sand, 40% clay, 5% fine gravel, medium dense, moist.
				10					SILT with Sand (ML) - brown, 85% silt, 15% fine sand, dense, moist.
				11					SILT with Sand (ML) - grey, 85% silt, 15% fine sand, dense, moist.
				12					
				13					
				14					Silty SAND (ML) - grey, 70% fine sand, 30% silt, dense, moist, sand
				15					Clayey SAND (SC) - greenish grey, 80% fine sand, 20% clay, dense, moist.
				16					
				17					
				18	SB-26d18				Well graded SAND (SW) - greenish grey, 90% fine to coarse, sand, 5% fine gravel, 5% clay, dense, moist to wet.
				19					Well graded SAND (SW) - greenish grey, 85% fine to coarse, sand, 10% fine gravel, 5% clay, dense, wet.
				20					
				21					
				22					



Project No: **I4211117** Client: **COP-ELT**  
 Logged By: **Jonathan Fillingame** Location: **7210 Bancroft Avenue**  
 Driller: **Gregg Drilling** Date Drilled: **4/16/2015**  
 Drilling Method: **Direct Push** Hole Diameter: **2 inches**  
 Sampling Method: **Continuous Liners** Hole Depth: **35 feet**

Boring No: **SB-26**  
 Page 2 of 2



▽ First Water Depth: 17.75 feet  
 ▼ Static Water Depth: 20 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

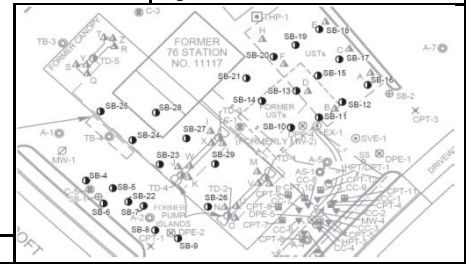
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement		1,013	SB-26d25	23			<b>Well Graded SAND (SW)</b> - greenish grey, 90% fine to coarse, sand, 5% fine gravel, 5% clay, dense, wet.
		711		24			
		749		25			
		753		26			
		132		27			
		506	SB-26d30	27			<b>Clayey SAND (SC)</b> - greyish brown, 60% fine to coarse sand, 35% clay, 5% fine gravel, medium dense, wet.
		883		28			
		123		29			
		1,129		30			
		1,360		31			
1,465	SB-26d35	31			<b>Well Graded SAND (SW)</b> - greenish grey, 95% fine to coarse sand, 5% silt, dense, wet.		
463		32					
1,507		33					
1,507		34					
1,376		35					
							<b>Well Graded SAND (SW)</b> - greenish grey, 95% fine to coarse sand, 5% silt, dense, wet.
							Total depth 35 feet
				36			
				37			
				38			
				39			
				40			
				41			
				42			
				43			
				44			



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/16/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-27**  
 Page 1 of 2



▽ First Water Depth: 13.5 feet  
 ▼ Static Water Depth: 23 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

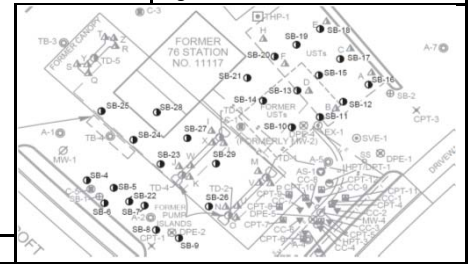
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				<b>Well Graded SAND with Gravel (SW)</b> - grey, 60% fine to coarse sand, 40% fine gravel, dense, dry.
				2				<b>Poorly graded SAND (SP)</b> - grey, 60% coarse sand, 40% fine gravel (P gravel on side of the hole), dense, dry
				3				
				4				<b>Lean CLAY with Sand (CL)</b> - brown, 85% clay, 15% fine to coarse sand, very stiff, low plasticity, moist.
		2.2	SB-27d5.5	5				<b>Silty SAND (SM)</b> - brown, 75% fine to coarse sand, 20% silt, 5% fine gravel, dense, moist.
		5.7		6				<b>Silty SAND (SM)</b> - grey and brown, 65% fine to coarse sand, 35% silt, dense, moist.
		1.3		7				<b>Silty SAND (SM)</b> - grey and brown, 60% fine to coarse sand, 35% silt, 5% fine gravel, dense, moist.
		0.3		8				
		0.2		9				<b>Silt (ML)</b> - brown, 95% silt, 5% fine sand, dense, moist.
		4.5		10				
		4.7		11				
		1,399		12				<b>Silty SAND (SM)</b> - greenish grey, 70% fine to coarse sand, 25% silt, 5% fine gravel, dense, moist.
		1,748		13				
		1,588	SB-27d14	14				<b>Silty SAND (SM)</b> - greenish grey, 80% fine to medium sand, 20% silt, medium dense, moist.
		1,903		15				<b>Clayey SAND (SC)</b> - greenish grey, 65% fine sand, 30% clay, 5% fine gravel, dense, wet.
		810		16				
		1,981		17				
		1,426		18				<b>Well Graded SAND (SW)</b> - greenish grey, 95% fine to coarse sand, 5% silt, dense, wet.
		1,707		19				<b>Well Graded SAND (SW)</b> - greenish grey, 90% fine to coarse sand, 5% fine gravel, 5% silt, dense, wet.
		1,434	SB-27d19	20				<b>Silty SAND (SM)</b> - grey, 65% fine to coarse sand, 30% silt, 5% fine gravel, medium dense, wet.
		1,840		21				
		1,888		22				
		888						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/16/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **35 feet**

Boring No: **SB-27**  
 Page 2 of 2



▽ First Water Depth: 13.5 feet  
 ▼ Static Water Depth: 23 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
Backfill	Static Water Level	1,629	SB-27d25.5	23					
		1,837		24					
		390		25			<b>Silt (ML)</b> - brown, 95% silt, 5% fine sand, medium dense, moist.		
		907		26			<b>Silty SAND (SM)</b> - brown, 60% fine to coarse sand, 35% silt, 5% fine gravel, dense, wet.		
		1,517		27			<b>Well Graded SAND (SW)</b> - greyish brown, 95% fine to coarse sand, 5% silt, medium dense, wet.		
		Neat Cement	Static Water Level	1,626	SB-27d30	28			<b>Clayey SAND (SC)</b> - greyish brown, 65% fine to coarse sand, 30% clay, 5% fine gravel, medium dense, wet.
				767		29			
				1,751		30			
				1,870	31			<b>Clayey SAND (SC)</b> - greyish brown, 65% fine to coarse sand, 25% clay, 10% fine gravel, medium dense, wet.	
				760	32				
1,593	33								
352	34								
81	35	SB-27d35				<b>Well Graded SAND with Silt (SW-SM)</b> - greenish grey, 85% fine to coarse sand, 10% silt, 5% fine gravel, medium dense, wet.			
						Total depth 35 feet			
				36					
				37					
				38					
				39					
				40					
				41					
				42					
				43					
				44					

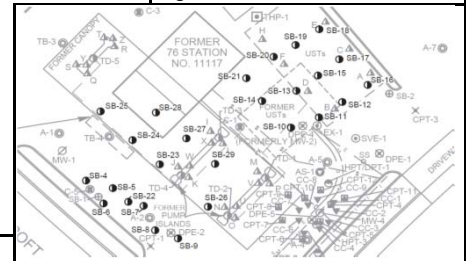




Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/16/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-28**  
 Page 1 of 2



▽ First Water Depth: 19.5 feet  
 ▼ Static Water Depth: 19 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

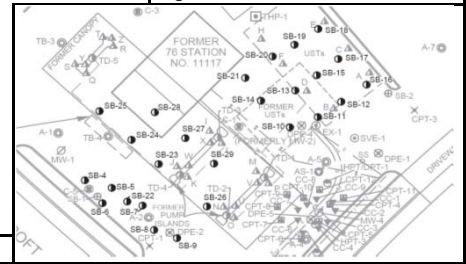
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1			Well Graded SAND with Gravel (SW) - grey, 60% fine to coarse sand, 40% fine gravel, dense, dry.	
				2			Poorly Graded SAND (SP) - grey, 60% coarse sand, 40% fine gravel (P gravel on side of the hole), dense, dry	
				3				
				4				
		11.6	SB-28d5.5	5			Sandy SILT (ML) - brown, 70% silt, 30% fine to medium sand, dense, moist.	
		0.2		6				
		0.2		7				
		0.3		8				
		0.4		9			Silty SAND (SM) - brown, 75% fine to coarse sand, 20% silt, 5% fine gravel, medium dense, moist.	
		0		10			SILT (ML) - brown, 90% silt, 10% fine to coarse sand, dense, moist.	
		0		11			Clayey SAND (SC) - brown, 80% fine to coarse sand, 15% clay, 5% fine gravel, medium dense, moist.	
		0.1		12			Clayey SAND (SC) - grey, 80% fine to coarse sand, 15% clay, 5% fine gravel, medium dense, moist.	
		4.8		13				
		0.3		14			Clayey SAND (SC) - greenish grey, 80% fine to coarse sand, 15% clay, 5% fine gravel, medium dense, moist.	
		13.7		15			Clayey SAND (SC) - greenish grey, 70% fine to coarse sand, 20% clay, 10% fine gravel, medium dense, moist.	
		2.0		16				
		9.6		17				
		2.2		18				
		12.9		19			Clayey SAND (SC) - greenish grey, 70% fine to coarse sand, 20% clay, 10% fine to coarse gravel, medium dense, moist.	
		10.8	SB-28d20	20			Clayey SAND (SC) - greenish grey, 70% fine to coarse sand, 20% clay, 10% fine to coarse gravel, medium dense, wet.	
		61.2		21				
		16		22			Well Graded SAND (SW) - grey, 90% fine to coarse sand 5% fine gravel, 5% silt, dense, wet.	
		8						



Project No: **I4211117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: **4/16/2015**  
 Hole Diameter: **2 inches**  
 Hole Depth: **32 feet**

Boring No: **SB-28**  
 Page 2 of 2



▽ First Water Depth: 19.5 feet  
 ▼ Static Water Depth: 19 feet

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

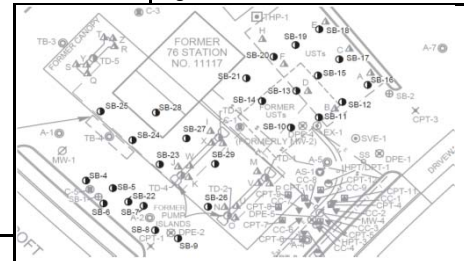
Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Neat Cement	19.5	5.4	SB-28d27	23			<b>Clayey SAND (SC)</b> - brownish grey, 70% fine to coarse sand, 20% clay, 10% fine to coarse gravel, dense, wet.	
		3.4		24				
		0		25		<b>Well Graded SAND (SW)</b> - grey, 90% fine to coarse sand, 5% silt, 5% fine gravel, loose, grey.		
		6.7		26		<b>Silty SAND (SM)</b> - brown, 80% fine to coarse sand, 20% silt, medium dense, wet.		
		1,060	SB-28d32	27			<b>Clayey SAND (SC)</b> - greenish grey, 70% fine to coarse sand, 25% clay, 5% fine gravel, dense, wet, hydrocarbon odor.	
		1,184		28				
		296		29			<b>Clayey SAND (SC)</b> - greenish grey, 80% fine to coarse sand, 15% clay, 5% fine gravel, loose, wet.	
		67	SB-27d35	30				
		606		31			<b>Clayey SAND (SC)</b> - greenish grey, 65% fine to coarse sand, 30% clay, 5% fine gravel, very dense, wet.	
		38.3		32			Total depth 32 feet, refusal from slough	
	33							
				34				
				35				
				36				
				37				
				38				
				39				
				40				
				41				
				42				
				43				
				44				



Project No: **I42611117**  
 Logged By: **Jonathan Fillingame**  
 Driller: **Gregg Drilling**  
 Drilling Method: Direct Push  
 Sampling Method: Continuous Liners

Client: **COP-ELT**  
 Location: **7210 Bancroft Avenue**  
 Date Drilled: 4/16/2015  
 Hole Diameter: **2 inches**  
 Hole Depth: **20 feet**

Boring No: **SB-29**  
 Page 1 of 1



▽ First Water Depth: NA  
 ▼ Static Water Level: NA

Elevation: \_\_\_\_\_ Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Boring Completion	Static Water Level	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Neat Cement								
			Hand Auger	1				<b>Well Graded SAND with Gravel (SW)</b> - grey, 60% fine to coarse sand, 40% fine gravel, dense, dry.
				2				<b>Poorly Graded SAND (SP)</b> - grey, 60% coarse sand, 40% fine gravel (P gravel on side of the hole), dense, dry
				3				
				4				
		1.0	SB-29d5.5	5				<b>Well Graded GRAVEL (GW)</b> - brown, 80% fine to coarse gravel, 20% fine to coarse sand, dense, wet.
		124		6				
		9.2		7				<b>Sandy lean CLAY (CL)</b> - dark brown, 70% clay, 30% fine to coarse sand, low plasticity, stiff, moist.
		1.6		8				<b>Sandy lean CLAY (CL)</b> - brown, 70% clay, 30% fine to coarse sand, low plasticity, stiff, moist.
		1.3		9				<b>Lean CLAY (CL)</b> - dark brown, 90% clay, 10% fine to medium sand, low plasticity, stiff, moist.
		72		10				
		770		11				
				12				<b>Clayey SAND (SC)</b> - dark grey, 80% fine to medium sand, 20% clay, medium dense, wet.
				13				12-14 feet - no recovery due to gravel slough
		1,465		14				<b>Clayey SAND (SC)</b> - greenish grey, 85% fine to medium sand, 15% clay, medium dense, wet.
		738		15				
				16				
				17				
		1,728	SB-29d18	18				<b>Clayey SAND (SC)</b> - greenish grey, 70% fine to medium sand, 30% clay, medium dense, wet.
				19				
		310	SB-29d20	20				Total Depth 20 feet, refusal due to gravel slough
				21				
				22				

## ***Appendix D***

Certified Laboratory Analytical Reports, Data Validation Forms

# Contents

Client Project Name: BP #11117  
 Work Order Number: 15-04-0792

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 04/10/15. They were assigned to Work Order 15-04-0792.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-4GW</b>	<b>15-04-0792-1-D</b>	<b>04/06/15 15:10</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 01:13</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		1000		62		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		85		68-140			
<b>SB-5GW</b>	<b>15-04-0792-2-D</b>	<b>04/06/15 15:25</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 14:32</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		4200000		52000		500	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		68-140			
<b>SB-6GW</b>	<b>15-04-0792-3-D</b>	<b>04/07/15 16:45</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 01:48</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		1800		110		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		70		68-140			
<b>SB-7GW</b>	<b>15-04-0792-4-D</b>	<b>04/07/15 10:50</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 10:53</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		120000		2700		25.0	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		100		68-140			
<b>SB-8GW</b>	<b>15-04-0792-5-D</b>	<b>04/07/15 12:50</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 02:25</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		7400		1200		10.0	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		68-140			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-9GW</b>	<b>15-04-0792-6-D</b>	<b>04/08/15 12:10</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 02:44</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		16000		740		5.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		68-140			
<b>SB-10GW</b>	<b>15-04-0792-7-D</b>	<b>04/08/15 15:00</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 11:31</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		550000		7100		100	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		103		68-140			
<b>SB-11GW</b>	<b>15-04-0792-8-D</b>	<b>04/09/15 14:50</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 03:21</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		2200		250		5.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		78		68-140			
<b>SB-12GW</b>	<b>15-04-0792-9-D</b>	<b>04/09/15 15:00</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 03:40</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		1100		260		5.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		82		68-140			
<b>SB-13GW</b>	<b>15-04-0792-10-D</b>	<b>04/09/15 15:10</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/17/15 03:59</b>	<b>150413B14</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		870		56		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		75		68-140			

Return to Contents

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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-304-1010</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/13/15</b>	<b>04/16/15 21:48</b>	<b>150413B14</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
n-Octacosane	88	68-140		

  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-4d5.5</b>	<b>15-04-0792-11-A</b>	<b>04/06/15 09:55</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 19:48</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		106		61-145			
<b>SB-4d10</b>	<b>15-04-0792-12-A</b>	<b>04/06/15 10:00</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 20:03</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		110		61-145			
<b>SB-4d15</b>	<b>15-04-0792-13-A</b>	<b>04/06/15 10:10</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 20:19</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		105		61-145			
<b>SB-4d20</b>	<b>15-04-0792-14-A</b>	<b>04/06/15 10:15</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 20:35</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		100		61-145			
<b>SB-4d25</b>	<b>15-04-0792-15-A</b>	<b>04/06/15 10:35</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 20:51</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		103		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-4d27</b>	<b>15-04-0792-16-A</b>	<b>04/06/15 10:40</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 21:07</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-4d30</b>	<b>15-04-0792-17-A</b>	<b>04/06/15 10:50</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 21:23</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		108		61-145			
<b>SB-4d35</b>	<b>15-04-0792-18-A</b>	<b>04/06/15 11:00</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 21:39</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-5d5.5</b>	<b>15-04-0792-19-A</b>	<b>04/06/15 12:50</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 21:55</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		109		61-145			
<b>SB-5d10</b>	<b>15-04-0792-20-A</b>	<b>04/06/15 13:00</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 22:10</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

Page 3 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-5d16</b>	<b>15-04-0792-21-A</b>	<b>04/06/15 12:50</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 22:42</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		105		61-145			
<b>SB-5d20</b>	<b>15-04-0792-22-A</b>	<b>04/06/15 13:00</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 22:58</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		104		61-145			
<b>SB-5d28</b>	<b>15-04-0792-23-A</b>	<b>04/06/15 13:40</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 23:13</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		27		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		100		61-145			
<b>SB-5d30</b>	<b>15-04-0792-24-A</b>	<b>04/06/15 13:55</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/16/15 15:36</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		3000		25		5.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		95		61-145			
<b>SB-5d32.5</b>	<b>15-04-0792-25-A</b>	<b>04/06/15 14:10</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/16/15 15:51</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		8700		50		10.0	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		114		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-5d38</b>	<b>15-04-0792-26-A</b>	<b>04/06/15 14:30</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 00:01</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		580		5.1		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-6d5.5</b>	<b>15-04-0792-27-A</b>	<b>04/07/15 15:20</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 00:16</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			
<b>SB-6d10</b>	<b>15-04-0792-28-A</b>	<b>04/07/15 15:25</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 00:32</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		102		61-145			
<b>SB-6d15</b>	<b>15-04-0792-29-A</b>	<b>04/07/15 15:30</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 00:47</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		102		61-145			
<b>SB-6d20</b>	<b>15-04-0792-30-A</b>	<b>04/07/15 15:35</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 01:03</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		103		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-6d26</b>	<b>15-04-0792-31-A</b>	<b>04/07/15 15:45</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 02:37</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		102		61-145			
<b>SB-6d32</b>	<b>15-04-0792-32-A</b>	<b>04/07/15 16:10</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 02:53</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		104		61-145			
<b>SB-6d35</b>	<b>15-04-0792-33-A</b>	<b>04/07/15 16:25</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 03:08</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-7d5.5</b>	<b>15-04-0792-34-A</b>	<b>04/07/15 08:25</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 03:24</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		103		61-145			
<b>SB-7d10</b>	<b>15-04-0792-35-A</b>	<b>04/07/15 08:35</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 03:40</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-7d15</b>	<b>15-04-0792-36-A</b>	<b>04/07/15 08:45</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 03:55</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		104		61-145			
<b>SB-7d20</b>	<b>15-04-0792-37-A</b>	<b>04/07/15 09:00</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 04:11</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		99		61-145			
<b>SB-7d23</b>	<b>15-04-0792-38-A</b>	<b>04/07/15 09:10</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 04:27</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		160		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			
<b>SB-7d27</b>	<b>15-04-0792-39-A</b>	<b>04/07/15 09:20</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 04:42</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		63		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		99		61-145			
<b>SB-7d32</b>	<b>15-04-0792-40-A</b>	<b>04/07/15 09:30</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 04:58</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		48		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-7d35</b>	<b>15-04-0792-41-A</b>	<b>04/07/15 09:50</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 05:29</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		77		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		124		61-145			
<b>SB-8d5.5</b>	<b>15-04-0792-42-A</b>	<b>04/07/15 11:25</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 05:45</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		117		61-145			
<b>SB-8d10</b>	<b>15-04-0792-43-A</b>	<b>04/07/15 11:40</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 06:01</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		100		61-145			
<b>SB-8d15</b>	<b>15-04-0792-44-A</b>	<b>04/07/15 11:50</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 06:16</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			
<b>SB-8d19</b>	<b>15-04-0792-45-A</b>	<b>04/07/15 12:00</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 06:32</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		97		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-8d24</b>	<b>15-04-0792-46-A</b>	<b>04/07/15 12:15</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 06:48</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		41		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		100		61-145			
<b>SB-8d28</b>	<b>15-04-0792-47-A</b>	<b>04/07/15 12:30</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 07:04</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		7.2		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			
<b>SB-8d35</b>	<b>15-04-0792-48-A</b>	<b>04/07/15 12:50</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 07:19</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		87		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>Method Blank</b>	<b>099-15-422-1727</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 18:45</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		102		61-145			
<b>Method Blank</b>	<b>099-15-422-1728</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 01:35</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d5.5	15-04-0792-11-A	04/06/15 09:55	Solid	ICP 7300	04/14/15	04/15/15 19:31	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	3.51	0.746	0.995	
Barium	105	0.498	0.995	
Beryllium	0.344	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	34.6	0.249	0.995	
Cobalt	24.0	0.249	0.995	
Copper	40.3	0.498	0.995	
Lead	9.33	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	42.8	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	162	0.249	0.995	
Zinc	25.3	0.995	0.995	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d10	15-04-0792-12-A	04/06/15 10:00	Solid	ICP 7300	04/14/15	04/15/15 19:37	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	6.43	0.725	0.966	
Barium	137	0.483	0.966	
Beryllium	0.440	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	40.1	0.242	0.966	
Cobalt	13.9	0.242	0.966	
Copper	27.0	0.483	0.966	
Lead	8.22	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	54.8	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	57.7	0.242	0.966	
Zinc	46.4	0.966	0.966	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d15	15-04-0792-13-A	04/06/15 10:10	Solid	ICP 7300	04/14/15	04/17/15 19:06	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	5.52	0.732	0.976	
Barium	127	0.488	0.976	
Beryllium	0.450	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	38.6	0.244	0.976	
Cobalt	5.61	0.244	0.976	
Copper	17.4	0.488	0.976	
Lead	5.17	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	53.0	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	32.1	0.244	0.976	
Zinc	39.2	0.976	0.976	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d20	15-04-0792-14-A	04/06/15 10:15	Solid	ICP 7300	04/14/15	04/17/15 19:07	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	9.82	0.739	0.985	
Barium	131	0.493	0.985	
Beryllium	0.335	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	29.1	0.246	0.985	
Cobalt	8.08	0.246	0.985	
Copper	15.0	0.493	0.985	
Lead	6.98	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	33.6	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	40.2	0.246	0.985	
Zinc	48.5	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d25	15-04-0792-15-A	04/06/15 10:35	Solid	ICP 7300	04/14/15	04/17/15 19:13	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	4.84	0.754	1.01	
Barium	122	0.503	1.01	
Beryllium	0.339	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	25.9	0.251	1.01	
Cobalt	9.54	0.251	1.01	
Copper	14.1	0.503	1.01	
Lead	4.71	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	31.5	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	36.2	0.251	1.01	
Zinc	39.3	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d27	15-04-0792-16-A	04/06/15 10:40	Solid	ICP 7300	04/14/15	04/17/15 19:14	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	3.91	0.735	0.980	
Barium	124	0.490	0.980	
Beryllium	0.344	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	25.2	0.245	0.980	
Cobalt	7.69	0.245	0.980	
Copper	12.8	0.490	0.980	
Lead	6.30	0.490	0.980	
Molybdenum	0.299	0.245	0.980	
Nickel	27.6	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	26.2	0.245	0.980	
Zinc	42.8	0.980	0.980	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d30	15-04-0792-17-A	04/06/15 10:50	Solid	ICP 7300	04/14/15	04/17/15 19:15	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	4.91	0.761	1.02	
Barium	123	0.508	1.02	
Beryllium	0.326	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	30.8	0.254	1.02	
Cobalt	7.48	0.254	1.02	
Copper	14.7	0.508	1.02	
Lead	5.78	0.508	1.02	
Molybdenum	0.351	0.254	1.02	
Nickel	31.4	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	35.3	0.254	1.02	
Zinc	44.8	1.02	1.02	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d35	15-04-0792-18-A	04/06/15 11:00	Solid	ICP 7300	04/14/15	04/17/15 19:17	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	7.71	0.739	0.985	
Barium	109	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	28.5	0.246	0.985	
Cobalt	8.46	0.246	0.985	
Copper	14.3	0.493	0.985	
Lead	5.28	0.493	0.985	
Molybdenum	0.504	0.246	0.985	
Nickel	29.2	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	30.1	0.246	0.985	
Zinc	33.4	0.985	0.985	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d5.5	15-04-0792-19-A	04/06/15 12:50	Solid	ICP 7300	04/14/15	04/17/15 19:18	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	3.79	0.732	0.976	
Barium	100	0.488	0.976	
Beryllium	0.327	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	32.5	0.244	0.976	
Cobalt	18.3	0.244	0.976	
Copper	41.7	0.488	0.976	
Lead	4.34	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	37.7	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	162	0.244	0.976	
Zinc	26.6	0.976	0.976	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d10	15-04-0792-20-A	04/06/15 13:00	Solid	ICP 7300	04/14/15	04/15/15 19:47	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	6.19	0.714	0.952	
Barium	147	0.476	0.952	
Beryllium	0.394	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	38.6	0.238	0.952	
Cobalt	25.3	0.238	0.952	
Copper	23.3	0.476	0.952	
Lead	8.77	0.476	0.952	
Molybdenum	ND	0.238	0.952	
Nickel	52.5	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	61.7	0.238	0.952	
Zinc	35.9	0.952	0.952	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d16	15-04-0792-21-A	04/06/15 12:50	Solid	ICP 7300	04/14/15	04/17/15 19:19	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	7.34	0.758	1.01	
Barium	166	0.505	1.01	
Beryllium	0.476	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	41.6	0.253	1.01	
Cobalt	10.3	0.253	1.01	
Copper	24.0	0.505	1.01	
Lead	5.64	0.505	1.01	
Molybdenum	0.278	0.253	1.01	
Nickel	50.1	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	40.0	0.253	1.01	
Zinc	44.6	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d20	15-04-0792-22-A	04/06/15 13:00	Solid	ICP 7300	04/14/15	04/15/15 19:54	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	5.30	0.754	1.01	
Barium	173	0.503	1.01	
Beryllium	0.356	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	34.4	0.251	1.01	
Cobalt	8.69	0.251	1.01	
Copper	17.6	0.503	1.01	
Lead	5.69	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	38.0	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	34.2	0.251	1.01	
Zinc	43.8	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d28	15-04-0792-23-A	04/06/15 13:40	Solid	ICP 7300	04/14/15	04/15/15 19:55	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	9.64	0.739	0.985	
Barium	136	0.493	0.985	
Beryllium	0.380	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	29.0	0.246	0.985	
Cobalt	10.6	0.246	0.985	
Copper	38.9	0.493	0.985	
Lead	7.77	0.493	0.985	
Molybdenum	0.343	0.246	0.985	
Nickel	33.5	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	47.1	0.246	0.985	
Zinc	91.2	0.985	0.985	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d30	15-04-0792-24-A	04/06/15 13:55	Solid	ICP 7300	04/14/15	04/15/15 19:57	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	6.21	0.714	0.952	
Barium	114	0.476	0.952	
Beryllium	0.301	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	31.8	0.238	0.952	
Cobalt	8.22	0.238	0.952	
Copper	13.2	0.476	0.952	
Lead	7.40	0.476	0.952	
Molybdenum	0.297	0.238	0.952	
Nickel	29.7	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	33.9	0.238	0.952	
Zinc	36.2	0.952	0.952	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d32.5	15-04-0792-25-A	04/06/15 14:10	Solid	ICP 7300	04/14/15	04/15/15 19:58	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	6.45	0.732	0.976	
Barium	142	0.488	0.976	
Beryllium	0.323	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	30.7	0.244	0.976	
Cobalt	9.25	0.244	0.976	
Copper	15.2	0.488	0.976	
Lead	6.38	0.488	0.976	
Molybdenum	0.339	0.244	0.976	
Nickel	35.0	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	37.3	0.244	0.976	
Zinc	42.5	0.976	0.976	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d38	15-04-0792-26-A	04/06/15 14:30	Solid	ICP 7300	04/14/15	04/15/15 19:59	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	6.09	0.761	1.02	
Barium	129	0.508	1.02	
Beryllium	0.312	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	30.8	0.254	1.02	
Cobalt	8.96	0.254	1.02	
Copper	16.2	0.508	1.02	
Lead	6.57	0.508	1.02	
Molybdenum	0.852	0.254	1.02	
Nickel	36.2	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	35.6	0.254	1.02	
Zinc	38.4	1.02	1.02	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d5.5	15-04-0792-27-A	04/07/15 15:20	Solid	ICP 7300	04/14/15	04/15/15 20:00	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	4.94	0.758	1.01	
Barium	142	0.505	1.01	
Beryllium	0.369	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	37.0	0.253	1.01	
Cobalt	24.1	0.253	1.01	
Copper	58.1	0.505	1.01	
Lead	5.05	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	51.0	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	135	0.253	1.01	
Zinc	31.1	1.01	1.01	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d10	15-04-0792-28-A	04/07/15 15:25	Solid	ICP 7300	04/14/15	04/15/15 20:01	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	4.32	0.725	0.966	
Barium	121	0.483	0.966	
Beryllium	0.346	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	35.0	0.242	0.966	
Cobalt	20.4	0.242	0.966	
Copper	23.3	0.483	0.966	
Lead	7.05	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	41.9	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	59.7	0.242	0.966	
Zinc	30.0	0.966	0.966	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d15	15-04-0792-29-A	04/07/15 15:30	Solid	ICP 7300	04/14/15	04/15/15 20:03	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	6.27	0.721	0.962	
Barium	111	0.481	0.962	
Beryllium	0.416	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	28.3	0.240	0.962	
Cobalt	10.7	0.240	0.962	
Copper	13.5	0.481	0.962	
Lead	7.00	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	39.0	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	30.8	0.240	0.962	
Zinc	31.2	0.962	0.962	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d20	15-04-0792-30-A	04/07/15 15:35	Solid	ICP 7300	04/14/15	04/15/15 20:04	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	7.28	0.732	0.976	
Barium	176	0.488	0.976	
Beryllium	0.463	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	42.5	0.244	0.976	
Cobalt	10.9	0.244	0.976	
Copper	18.6	0.488	0.976	
Lead	6.58	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	48.7	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	45.5	0.244	0.976	
Zinc	52.8	0.976	0.976	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d26	15-04-0792-31-A	04/07/15 15:45	Solid	ICP 7300	04/14/15	04/15/15 20:05	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	5.70	0.728	0.971	
Barium	99.3	0.485	0.971	
Beryllium	0.343	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	21.9	0.243	0.971	
Cobalt	6.75	0.243	0.971	
Copper	11.6	0.485	0.971	
Lead	5.03	0.485	0.971	
Molybdenum	0.437	0.243	0.971	
Nickel	26.8	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	28.4	0.243	0.971	
Zinc	31.8	0.971	0.971	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d32	15-04-0792-32-A	04/07/15 16:10	Solid	ICP 7300	04/14/15	04/15/15 20:11	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	18.6	0.746	0.995	
Barium	117	0.498	0.995	
Beryllium	0.259	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	29.6	0.249	0.995	
Cobalt	5.62	0.249	0.995	
Copper	18.7	0.498	0.995	
Lead	5.37	0.498	0.995	
Molybdenum	2.96	0.249	0.995	
Nickel	32.2	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	30.0	0.249	0.995	
Zinc	34.4	0.995	0.995	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d35	15-04-0792-33-A	04/07/15 16:25	Solid	ICP 7300	04/14/15	04/15/15 20:13	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	4.92	0.725	0.966	
Barium	121	0.483	0.966	
Beryllium	0.275	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	28.2	0.242	0.966	
Cobalt	10.1	0.242	0.966	
Copper	12.5	0.483	0.966	
Lead	6.17	0.483	0.966	
Molybdenum	0.366	0.242	0.966	
Nickel	34.2	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	34.2	0.242	0.966	
Zinc	31.2	0.966	0.966	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d5.5	15-04-0792-34-A	04/07/15 08:25	Solid	ICP 7300	04/14/15	04/15/15 20:14	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.14	0.743	0.990	
Barium	74.7	0.495	0.990	
Beryllium	0.428	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	37.4	0.248	0.990	
Cobalt	21.5	0.248	0.990	
Copper	117	0.495	0.990	
Lead	4.42	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	43.2	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	267	0.248	0.990	
Zinc	27.8	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-7d10</b>	<b>15-04-0792-35-A</b>	<b>04/07/15 08:35</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 20:15</b>	<b>150414L06</b>
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Antimony		ND	0.718		0.957		
Arsenic		6.20	0.718		0.957		
Barium		122	0.478		0.957		
Beryllium		0.421	0.239		0.957		
Cadmium		ND	0.478		0.957		
Chromium		45.4	0.239		0.957		
Cobalt		15.5	0.239		0.957		
Copper		17.9	0.478		0.957		
Lead		7.84	0.478		0.957		
Molybdenum		ND	0.239		0.957		
Nickel		47.9	0.239		0.957		
Selenium		ND	0.718		0.957		
Silver		ND	0.239		0.957		
Thallium		ND	0.718		0.957		
Vanadium		45.2	0.239		0.957		
Zinc		37.5	0.957		0.957		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group	Date Received:	04/10/15
11050 White Rock Rd. Suite# 110	Work Order:	15-04-0792
Rancho Cordova, CA 95670-6001	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg

Project: BP #11117 Page 26 of 40

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d15	15-04-0792-36-A	04/07/15 08:45	Solid	ICP 7300	04/14/15	04/15/15 20:16	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	6.50	0.725	0.966	
Barium	128	0.483	0.966	
Beryllium	0.508	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	26.8	0.242	0.966	
Cobalt	10.1	0.242	0.966	
Copper	18.6	0.483	0.966	
Lead	9.50	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	44.7	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	29.3	0.242	0.966	
Zinc	35.9	0.966	0.966	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d20	15-04-0792-37-A	04/07/15 09:00	Solid	ICP 7300	04/14/15	04/15/15 20:17	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.25	0.743	0.990	
Barium	161	0.495	0.990	
Beryllium	0.310	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	30.6	0.248	0.990	
Cobalt	6.50	0.248	0.990	
Copper	16.8	0.495	0.990	
Lead	6.24	0.495	0.990	
Molybdenum	0.641	0.248	0.990	
Nickel	41.9	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	30.1	0.248	0.990	
Zinc	33.4	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d23	15-04-0792-38-A	04/07/15 09:10	Solid	ICP 7300	04/14/15	04/15/15 20:18	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	4.85	0.714	0.952	
Barium	96.5	0.476	0.952	
Beryllium	0.364	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	21.6	0.238	0.952	
Cobalt	7.53	0.238	0.952	
Copper	13.8	0.476	0.952	
Lead	7.26	0.476	0.952	
Molybdenum	ND	0.238	0.952	
Nickel	26.7	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	27.5	0.238	0.952	
Zinc	34.7	0.952	0.952	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d27	15-04-0792-39-A	04/07/15 09:20	Solid	ICP 7300	04/14/15	04/15/15 20:19	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	7.02	0.735	0.980	
Barium	110	0.490	0.980	
Beryllium	0.545	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	34.5	0.245	0.980	
Cobalt	6.98	0.245	0.980	
Copper	22.4	0.490	0.980	
Lead	10.1	0.490	0.980	
Molybdenum	0.823	0.245	0.980	
Nickel	35.0	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	38.1	0.245	0.980	
Zinc	41.9	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d32	15-04-0792-40-A	04/07/15 09:30	Solid	ICP 7300	04/14/15	04/15/15 20:21	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	5.66	0.746	0.995	
Barium	121	0.498	0.995	
Beryllium	0.332	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	43.8	0.249	0.995	
Cobalt	10.9	0.249	0.995	
Copper	14.8	0.498	0.995	
Lead	6.81	0.498	0.995	
Molybdenum	0.826	0.249	0.995	
Nickel	41.7	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	36.8	0.249	0.995	
Zinc	36.0	0.995	0.995	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d35	15-04-0792-41-A	04/07/15 09:50	Solid	ICP 7300	04/14/15	04/15/15 20:22	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	4.64	0.725	0.966	
Barium	98.7	0.483	0.966	
Beryllium	0.284	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	26.0	0.242	0.966	
Cobalt	9.55	0.242	0.966	
Copper	12.6	0.483	0.966	
Lead	6.03	0.483	0.966	
Molybdenum	0.313	0.242	0.966	
Nickel	30.5	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	38.3	0.242	0.966	
Zinc	30.9	0.966	0.966	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d5.5	15-04-0792-42-A	04/07/15 11:25	Solid	ICP 7300	04/14/15	04/15/15 20:28	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	3.09	0.746	0.995	
Barium	79.2	0.498	0.995	
Beryllium	0.310	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	30.6	0.249	0.995	
Cobalt	20.2	0.249	0.995	
Copper	46.5	0.498	0.995	
Lead	4.16	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	41.5	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	129	0.249	0.995	
Zinc	26.6	0.995	0.995	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d10	15-04-0792-43-A	04/07/15 11:40	Solid	ICP 7300	04/14/15	04/15/15 20:29	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	6.75	0.761	1.02	
Barium	126	0.508	1.02	
Beryllium	0.480	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	47.3	0.254	1.02	
Cobalt	17.9	0.254	1.02	
Copper	25.8	0.508	1.02	
Lead	8.97	0.508	1.02	
Molybdenum	ND	0.254	1.02	
Nickel	56.0	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	56.3	0.254	1.02	
Zinc	46.6	1.02	1.02	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d15	15-04-0792-44-A	04/07/15 11:50	Solid	ICP 7300	04/14/15	04/15/15 20:30	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	5.48	0.739	0.985	
Barium	105	0.493	0.985	
Beryllium	0.423	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	38.4	0.246	0.985	
Cobalt	8.10	0.246	0.985	
Copper	15.2	0.493	0.985	
Lead	6.60	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	44.2	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	30.3	0.246	0.985	
Zinc	35.8	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d19	15-04-0792-45-A	04/07/15 12:00	Solid	ICP 7300	04/14/15	04/15/15 20:32	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	7.63	0.721	0.962	
Barium	179	0.481	0.962	
Beryllium	0.521	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	44.7	0.240	0.962	
Cobalt	13.9	0.240	0.962	
Copper	18.2	0.481	0.962	
Lead	7.55	0.481	0.962	
Molybdenum	0.402	0.240	0.962	
Nickel	47.5	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	95.5	0.240	0.962	
Zinc	46.1	0.962	0.962	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d24	15-04-0792-46-A	04/07/15 12:15	Solid	ICP 7300	04/14/15	04/15/15 20:33	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	4.50	0.743	0.990	
Barium	110	0.495	0.990	
Beryllium	0.267	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	20.3	0.248	0.990	
Cobalt	9.93	0.248	0.990	
Copper	11.3	0.495	0.990	
Lead	4.75	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	38.1	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	33.3	0.248	0.990	
Zinc	49.5	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d28	15-04-0792-47-A	04/07/15 12:30	Solid	ICP 7300	04/14/15	04/15/15 20:34	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	4.91	0.721	0.962	
Barium	124	0.481	0.962	
Beryllium	0.311	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	30.1	0.240	0.962	
Cobalt	8.66	0.240	0.962	
Copper	15.3	0.481	0.962	
Lead	5.43	0.481	0.962	
Molybdenum	0.370	0.240	0.962	
Nickel	29.8	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	34.3	0.240	0.962	
Zinc	39.9	0.962	0.962	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d35	15-04-0792-48-A	04/07/15 12:50	Solid	ICP 7300	04/14/15	04/15/15 20:35	150414L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	6.70	0.725	0.966	
Barium	128	0.483	0.966	
Beryllium	0.294	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	24.8	0.242	0.966	
Cobalt	9.16	0.242	0.966	
Copper	13.1	0.483	0.966	
Lead	6.32	0.483	0.966	
Molybdenum	0.355	0.242	0.966	
Nickel	33.9	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	30.7	0.242	0.966	
Zinc	34.3	0.966	0.966	


  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20801	N/A	Solid	ICP 7300	04/14/15	04/15/15 19:17	150414L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	ND	0.743	0.990	
Barium	ND	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	ND	0.248	0.990	
Cobalt	ND	0.248	0.990	
Copper	ND	0.495	0.990	
Lead	ND	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	ND	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	ND	0.248	0.990	
Zinc	ND	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>097-01-002-20802</b>	<b>N/A</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:19</b>	<b>150414L06</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-4d5.5</b>	<b>15-04-0792-11-A</b>	<b>04/06/15 09:55</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:06</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.157		0.0806		1.00	
<b>SB-4d10</b>	<b>15-04-0792-12-A</b>	<b>04/06/15 10:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:08</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.154		0.0833		1.00	
<b>SB-4d15</b>	<b>15-04-0792-13-A</b>	<b>04/06/15 10:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 16:59</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-4d20</b>	<b>15-04-0792-14-A</b>	<b>04/06/15 10:15</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:11</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-4d25</b>	<b>15-04-0792-15-A</b>	<b>04/06/15 10:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:13</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0914		0.0833		1.00	
<b>SB-4d27</b>	<b>15-04-0792-16-A</b>	<b>04/06/15 10:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:20</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-4d30</b>	<b>15-04-0792-17-A</b>	<b>04/06/15 10:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:22</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-4d35</b>	<b>15-04-0792-18-A</b>	<b>04/06/15 11:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:24</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-5d5.5</b>	<b>15-04-0792-19-A</b>	<b>04/06/15 12:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:26</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.177		0.0820		1.00	
<b>SB-5d10</b>	<b>15-04-0792-20-A</b>	<b>04/06/15 13:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:29</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-5d16</b>	<b>15-04-0792-21-A</b>	<b>04/06/15 12:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:31</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.112		0.0820		1.00	
<b>SB-5d20</b>	<b>15-04-0792-22-A</b>	<b>04/06/15 13:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:33</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0877		1.00	
<b>SB-5d28</b>	<b>15-04-0792-23-A</b>	<b>04/06/15 13:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:35</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-5d30</b>	<b>15-04-0792-24-A</b>	<b>04/06/15 13:55</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:37</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-5d32.5</b>	<b>15-04-0792-25-A</b>	<b>04/06/15 14:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:39</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-5d38</b>	<b>15-04-0792-26-A</b>	<b>04/06/15 14:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:46</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0877		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-6d5.5</b>	<b>15-04-0792-27-A</b>	<b>04/07/15 15:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:48</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-6d10</b>	<b>15-04-0792-28-A</b>	<b>04/07/15 15:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:51</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.149		0.0806		1.00	
<b>SB-6d15</b>	<b>15-04-0792-29-A</b>	<b>04/07/15 15:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:53</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-6d20</b>	<b>15-04-0792-30-A</b>	<b>04/07/15 15:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:55</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.104		0.0847		1.00	
<b>SB-6d26</b>	<b>15-04-0792-31-A</b>	<b>04/07/15 15:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:13</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0968		0.0833		1.00	
<b>SB-6d32</b>	<b>15-04-0792-32-A</b>	<b>04/07/15 16:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:15</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-6d35</b>	<b>15-04-0792-33-A</b>	<b>04/07/15 16:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:17</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-7d5.5</b>	<b>15-04-0792-34-A</b>	<b>04/07/15 08:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:20</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.180		0.0847		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-7d10</b>	<b>15-04-0792-35-A</b>	<b>04/07/15 08:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:22</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-7d15</b>	<b>15-04-0792-36-A</b>	<b>04/07/15 08:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:24</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-7d20</b>	<b>15-04-0792-37-A</b>	<b>04/07/15 09:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:26</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.205		0.0833		1.00	
<b>SB-7d23</b>	<b>15-04-0792-38-A</b>	<b>04/07/15 09:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:28</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-7d27</b>	<b>15-04-0792-39-A</b>	<b>04/07/15 09:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:31</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.159		0.0806		1.00	
<b>SB-7d32</b>	<b>15-04-0792-40-A</b>	<b>04/07/15 09:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:33</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-7d35</b>	<b>15-04-0792-41-A</b>	<b>04/07/15 09:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:42</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-8d5.5</b>	<b>15-04-0792-42-A</b>	<b>04/07/15 11:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:44</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.112		0.0806		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-8d10</b>	<b>15-04-0792-43-A</b>	<b>04/07/15 11:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:02</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.118		0.0806		1.00	
<b>SB-8d15</b>	<b>15-04-0792-44-A</b>	<b>04/07/15 11:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:46</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-8d19</b>	<b>15-04-0792-45-A</b>	<b>04/07/15 12:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:48</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-8d24</b>	<b>15-04-0792-46-A</b>	<b>04/07/15 12:15</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:50</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-8d28</b>	<b>15-04-0792-47-A</b>	<b>04/07/15 12:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:53</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-8d35</b>	<b>15-04-0792-48-A</b>	<b>04/07/15 12:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:55</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>Method Blank</b>	<b>099-16-272-1164</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 16:55</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>Method Blank</b>	<b>099-16-272-1165</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:57</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4GW	15-04-0792-1-B	04/06/15 15:10	Aqueous	GC/MS OO	04/16/15	04/16/15 22:06	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	6.5	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	1.6	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	1.2	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	1300	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	78-126		
1,2-Dichloroethane-d4	96	75-135		
Toluene-d8	100	80-120		
Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	98	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5GW	15-04-0792-2-B	04/06/15 15:25	Aqueous	GC/MS OO	04/16/15	04/16/15 22:34	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	50	100	
1,2-Dibromoethane	ND	100	100	
1,2-Dichloroethane	ND	50	100	
Ethylbenzene	14000	100	100	
Toluene	270	100	100	
p/m-Xylene	37000	100	100	
o-Xylene	11000	100	100	
Methyl-t-Butyl Ether (MTBE)	ND	100	100	
Tert-Butyl Alcohol (TBA)	ND	1000	100	
Diisopropyl Ether (DIPE)	ND	200	100	
Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Ethanol	ND	10000	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	94	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	105	80-120	
Toluene-d8-TPPH	105	88-112	
1,4-Bromofluorobenzene	98	80-120	

SB-5GW	15-04-0792-2-B	04/06/15 15:25	Aqueous	GC/MS O	04/18/15	04/18/15 18:19	150418L021
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Parameter	Result	RL	DF	Qualifiers
TPPH	1200000	25000	500	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6GW	15-04-0792-3-B	04/07/15 16:45	Aqueous	GC/MS OO	04/16/15	04/16/15 23:03	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1.0	2.00	
1,2-Dibromoethane	ND	2.0	2.00	
1,2-Dichloroethane	ND	1.0	2.00	
Ethylbenzene	ND	2.0	2.00	
Toluene	ND	2.0	2.00	
p/m-Xylene	6.1	2.0	2.00	
o-Xylene	ND	2.0	2.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	2.00	
Tert-Butyl Alcohol (TBA)	ND	20	2.00	
Diisopropyl Ether (DIPE)	ND	4.0	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	4.0	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	4.0	2.00	
Ethanol	ND	200	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	94	75-135	
Toluene-d8	102	80-120	
Toluene-d8-TPPH	103	88-112	
1,4-Bromofluorobenzene	102	80-120	

SB-6GW	15-04-0792-3-B	04/07/15 16:45	Aqueous	GC/MS O	04/18/15	04/18/15 18:48	150418L021
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Parameter	Result	RL	DF	Qualifiers
TPPH	28000	1000	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	103	80-120	
Toluene-d8-TPPH	104	88-112	
1,4-Bromofluorobenzene	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-7GW</b>	<b>15-04-0792-4-B</b>	<b>04/07/15 10:50</b>	<b>Aqueous</b>	<b>GC/MS OO</b>	<b>04/16/15</b>	<b>04/16/15 23:31</b>	<b>150416L051</b>

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	25	50.0	
1,2-Dibromoethane	ND	50	50.0	
1,2-Dichloroethane	ND	25	50.0	
Ethylbenzene	3500	50	50.0	
Toluene	ND	50	50.0	
p/m-Xylene	9900	50	50.0	
o-Xylene	3900	50	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	50	50.0	
Tert-Butyl Alcohol (TBA)	ND	500	50.0	
Diisopropyl Ether (DIPE)	ND	100	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	100	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	100	50.0	
Ethanol	ND	5000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	94	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	102	80-120	
Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	97	80-120	

SB-7GW	15-04-0792-4-B	04/07/15 10:50	Aqueous	GC/MS O	04/18/15	04/18/15 19:17	150418L021
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Parameter	Result	RL	DF	Qualifiers
TPPH	300000	5000	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8GW	15-04-0792-5-B	04/07/15 12:50	Aqueous	GC/MS OO	04/16/15	04/17/15 00:00	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	2.5	5.00	
1,2-Dibromoethane	ND	5.0	5.00	
1,2-Dichloroethane	ND	2.5	5.00	
Ethylbenzene	170	5.0	5.00	
Toluene	ND	5.0	5.00	
p/m-Xylene	100	5.0	5.00	
o-Xylene	14	5.0	5.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	5.00	
Tert-Butyl Alcohol (TBA)	ND	50	5.00	
Diisopropyl Ether (DIPE)	ND	10	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	5.00	
Ethanol	ND	500	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	85	75-135	
Toluene-d8	105	80-120	
Toluene-d8-TPPH	105	88-112	
1,4-Bromofluorobenzene	97	80-120	

SB-8GW	15-04-0792-5-B	04/07/15 12:50	Aqueous	GC/MS O	04/18/15	04/18/15 19:46	150418L021
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Parameter	Result	RL	DF	Qualifiers
TPPH	21000	1200	25.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-9GW</b>	<b>15-04-0792-6-B</b>	<b>04/08/15 12:10</b>	<b>Aqueous</b>	<b>GC/MS OO</b>	<b>04/16/15</b>	<b>04/17/15 00:29</b>	<b>150416L051</b>

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	10	20.0	
1,2-Dibromoethane	ND	20	20.0	
1,2-Dichloroethane	ND	10	20.0	
Ethylbenzene	700	20	20.0	
Toluene	ND	20	20.0	
p/m-Xylene	1100	20	20.0	
o-Xylene	120	20	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	20	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	20.0	
Diisopropyl Ether (DIPE)	ND	40	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	40	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	40	20.0	
Ethanol	ND	2000	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	89	75-135	
Toluene-d8	102	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	97	80-120	

SB-9GW	15-04-0792-6-B	04/08/15 12:10	Aqueous	GC/MS O	04/18/15	04/18/15 20:15	150418L021
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Parameter	Result	RL	DF	Qualifiers
TPPH	120000	2500	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10GW	15-04-0792-7-B	04/08/15 15:00	Aqueous	GC/MS OO	04/16/15	04/17/15 00:57	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	5000	100	200	
1,2-Dibromoethane	ND	200	200	
1,2-Dichloroethane	ND	100	200	
Ethylbenzene	14000	200	200	
Toluene	20000	200	200	
p/m-Xylene	52000	200	200	
o-Xylene	21000	200	200	
Methyl-t-Butyl Ether (MTBE)	4800	200	200	
Tert-Butyl Alcohol (TBA)	ND	2000	200	
Diisopropyl Ether (DIPE)	ND	400	200	
Ethyl-t-Butyl Ether (ETBE)	ND	400	200	
Tert-Amyl-Methyl Ether (TAME)	ND	400	200	
Ethanol	ND	20000	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	91	78-126	
1,2-Dichloroethane-d4	90	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	98	80-120	

SB-10GW	15-04-0792-7-B	04/08/15 15:00	Aqueous	GC/MS O	04/18/15	04/18/15 20:45	150418L021
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Parameter	Result	RL	DF	Qualifiers
TPPH	590000	12000	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	98	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11GW	15-04-0792-8-B	04/09/15 14:50	Aqueous	GC/MS O	04/18/15	04/18/15 21:14	150418L021

Parameter	Result	RL	DF	Qualifiers
Benzene	19	1.2	2.50	
1,2-Dibromoethane	ND	2.5	2.50	
1,2-Dichloroethane	ND	1.2	2.50	
Ethylbenzene	82	2.5	2.50	
Toluene	60	2.5	2.50	
p/m-Xylene	330	2.5	2.50	
o-Xylene	140	2.5	2.50	
Methyl-t-Butyl Ether (MTBE)	55	2.5	2.50	
Tert-Butyl Alcohol (TBA)	95	25	2.50	
Diisopropyl Ether (DIPE)	ND	5.0	2.50	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	2.50	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	2.50	
Ethanol	ND	250	2.50	
TPPH	3600	120	2.50	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	94	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12GW	15-04-0792-9-B	04/09/15 15:00	Aqueous	GC/MS OO	04/16/15	04/17/15 01:54	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	29	2.5	5.00	
1,2-Dibromoethane	ND	5.0	5.00	
1,2-Dichloroethane	ND	2.5	5.00	
Ethylbenzene	18	5.0	5.00	
Toluene	18	5.0	5.00	
p/m-Xylene	53	5.0	5.00	
o-Xylene	34	5.0	5.00	
Methyl-t-Butyl Ether (MTBE)	75	5.0	5.00	
Tert-Butyl Alcohol (TBA)	88	50	5.00	
Diisopropyl Ether (DIPE)	ND	10	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	5.00	
Ethanol	ND	500	5.00	
TPPH	1100	250	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	91	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	95	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13GW	15-04-0792-10-B	04/09/15 15:10	Aqueous	GC/MS OO	04/16/15	04/17/15 02:23	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	55	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	41	1.0	1.00	
Toluene	37	1.0	1.00	
p/m-Xylene	65	1.0	1.00	
o-Xylene	19	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	36	1.0	1.00	
Tert-Butyl Alcohol (TBA)	54	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	1700	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	78-126		
1,2-Dichloroethane-d4	94	75-135		
Toluene-d8	99	80-120		
Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	97	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6868	N/A	Aqueous	GC/MS OO	04/16/15	04/16/15 18:33	150416L051

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6872	N/A	Aqueous	GC/MS O	04/18/15	04/18/15 13:50	150418L021

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	94	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d5.5	15-04-0792-11-A	04/06/15 09:55	Solid	GC/MS R	04/11/15	04/14/15 21:27	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Naphthalene	ND	50	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	106	62-146	
Toluene-d8	103	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	110	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d10	15-04-0792-12-A	04/06/15 10:00	Solid	GC/MS R	04/11/15	04/14/15 21:54	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Naphthalene	ND	50	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	63-141	
1,2-Dichloroethane-d4	109	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	98	60-132	
Toluene-d8-TPPH	107	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d15	15-04-0792-13-A	04/06/15 10:10	Solid	GC/MS R	04/11/15	04/14/15 22:22	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.8	1.00	
1,2-Dibromoethane	ND	4.8	1.00	
1,2-Dichloroethane	ND	4.8	1.00	
Ethylbenzene	ND	4.8	1.00	
Toluene	ND	4.8	1.00	
p/m-Xylene	ND	4.8	1.00	
o-Xylene	ND	4.8	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.8	1.00	
Tert-Butyl Alcohol (TBA)	ND	48	1.00	
Diisopropyl Ether (DIPE)	ND	9.6	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.6	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.6	1.00	
Ethanol	ND	480	1.00	
TPPH	ND	480	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	111	63-141		
1,2-Dichloroethane-d4	112	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	111	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d20	15-04-0792-14-A	04/06/15 10:15	Solid	GC/MS R	04/11/15	04/14/15 22:50	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	105	63-141		
1,2-Dichloroethane-d4	106	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	107	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d25	15-04-0792-15-A	04/06/15 10:35	Solid	GC/MS R	04/11/15	04/14/15 23:18	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	105	63-141		
1,2-Dichloroethane-d4	106	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	111	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d27	15-04-0792-16-A	04/06/15 10:40	Solid	GC/MS R	04/11/15	04/14/15 23:46	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	107	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	109	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d30	15-04-0792-17-A	04/06/15 10:50	Solid	GC/MS R	04/11/15	04/15/15 00:14	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	114	63-141		
1,2-Dichloroethane-d4	108	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	111	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-4d35	15-04-0792-18-A	04/06/15 11:00	Solid	GC/MS R	04/15/15	04/16/15 02:29	150415L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	2400	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	91	62-146		
Toluene-d8	109	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	116	87-111	2,7	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d5.5	15-04-0792-19-A	04/06/15 12:50	Solid	GC/MS R	04/11/15	04/15/15 01:10	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.8	1.00	
1,2-Dibromoethane	ND	4.8	1.00	
1,2-Dichloroethane	ND	4.8	1.00	
Ethylbenzene	ND	4.8	1.00	
Toluene	ND	4.8	1.00	
p/m-Xylene	ND	4.8	1.00	
o-Xylene	ND	4.8	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.8	1.00	
Tert-Butyl Alcohol (TBA)	ND	48	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	480	1.00	
TPPH	ND	480	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	110	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	108	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d10	15-04-0792-20-A	04/06/15 13:00	Solid	GC/MS R	04/11/15	04/14/15 19:07	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	107	63-141		
1,2-Dichloroethane-d4	108	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	110	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d16	15-04-0792-21-A	04/06/15 12:50	Solid	GC/MS R	04/11/15	04/15/15 01:38	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	116	63-141		
1,2-Dichloroethane-d4	109	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	111	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d20	15-04-0792-22-A	04/06/15 13:00	Solid	GC/MS R	04/11/15	04/15/15 02:06	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	110	63-141		
1,2-Dichloroethane-d4	108	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	111	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d28	15-04-0792-23-A	04/06/15 13:40	Solid	GC/MS R	04/11/15	04/15/15 02:33	150414L047

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	ND	510	50.0	
Toluene	ND	510	50.0	
p/m-Xylene	ND	510	50.0	
o-Xylene	ND	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	220000	51000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	94	63-141		
1,2-Dichloroethane-d4	95	62-146		
Toluene-d8	109	80-120		
1,4-Bromofluorobenzene	103	60-132		
Toluene-d8-TPPH	116	87-111	2,7	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d30	15-04-0792-24-A	04/06/15 13:55	Solid	GC/MS R	04/11/15	04/16/15 03:25	150415L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	10000	1000	
1,2-Dibromoethane	ND	10000	1000	
1,2-Dichloroethane	ND	10000	1000	
Ethylbenzene	67000	10000	1000	
Toluene	ND	10000	1000	
p/m-Xylene	250000	10000	1000	
o-Xylene	69000	10000	1000	
Methyl-t-Butyl Ether (MTBE)	ND	10000	1000	
Tert-Butyl Alcohol (TBA)	ND	100000	1000	
Diisopropyl Ether (DIPE)	ND	20000	1000	
Ethyl-t-Butyl Ether (ETBE)	ND	20000	1000	
Tert-Amyl-Methyl Ether (TAME)	ND	20000	1000	
Ethanol	ND	1000000	1000	
TPPH	5100000	1000000	1000	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	89	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	107	60-132		
Toluene-d8-TPPH	109	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d32.5	15-04-0792-25-A	04/06/15 14:10	Solid	GC/MS O	04/11/15	04/15/15 09:25	150414L046

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	10000	1000	
1,2-Dibromoethane	ND	10000	1000	
1,2-Dichloroethane	ND	10000	1000	
Ethylbenzene	82000	10000	1000	
Toluene	ND	10000	1000	
p/m-Xylene	270000	10000	1000	
o-Xylene	66000	10000	1000	
Methyl-t-Butyl Ether (MTBE)	11000	10000	1000	
Tert-Butyl Alcohol (TBA)	ND	100000	1000	
Diisopropyl Ether (DIPE)	ND	21000	1000	
Ethyl-t-Butyl Ether (ETBE)	ND	21000	1000	
Tert-Amyl-Methyl Ether (TAME)	ND	21000	1000	
Ethanol	ND	1000000	1000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	101	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	104	60-132	
Toluene-d8-TPPH	103	87-111	

SB-5d32.5	15-04-0792-25-A	04/06/15 14:10	Solid	GC/MS OO	04/11/15	04/17/15 12:33	150416L053
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Parameter	Result	RL	DF	Qualifiers
TPPH	9500000	5100000	5000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Toluene-d8-TPPH	98	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-5d38	15-04-0792-26-A	04/06/15 14:30	Solid	GC/MS O	04/11/15	04/15/15 09:54	150414L046

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5000	500	
1,2-Dibromoethane	ND	5000	500	
1,2-Dichloroethane	ND	5000	500	
Ethylbenzene	14000	5000	500	
Toluene	ND	5000	500	
p/m-Xylene	41000	5000	500	
o-Xylene	8200	5000	500	
Methyl-t-Butyl Ether (MTBE)	ND	5000	500	
Tert-Butyl Alcohol (TBA)	ND	50000	500	
Diisopropyl Ether (DIPE)	ND	10000	500	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	500	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	500	
Ethanol	ND	500000	500	
TPPH	2600000	500000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	95	63-141		
1,2-Dichloroethane-d4	101	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	101	60-132		
Toluene-d8-TPPH	102	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d5.5	15-04-0792-27-A	04/07/15 15:20	Solid	GC/MS O	04/11/15	04/15/15 10:23	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	107	62-146		
Toluene-d8	96	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d10	15-04-0792-28-A	04/07/15 15:25	Solid	GC/MS O	04/11/15	04/15/15 10:52	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	112	63-141		
1,2-Dichloroethane-d4	118	62-146		
Toluene-d8	97	80-120		
1,4-Bromofluorobenzene	93	60-132		
Toluene-d8-TPPH	102	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d15	15-04-0792-29-A	04/07/15 15:30	Solid	GC/MS O	04/11/15	04/15/15 11:21	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	111	62-146		
Toluene-d8	97	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d20	15-04-0792-30-A	04/07/15 15:35	Solid	GC/MS O	04/11/15	04/15/15 11:51	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	110	63-141		
1,2-Dichloroethane-d4	114	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	100	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d26	15-04-0792-31-A	04/07/15 15:45	Solid	GC/MS O	04/11/15	04/15/15 12:20	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	105	63-141		
1,2-Dichloroethane-d4	113	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d32	15-04-0792-32-A	04/07/15 16:10	Solid	GC/MS O	04/11/15	04/20/15 22:14	150420L029

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	103	60-132	
Toluene-d8-TPPH	102	87-111	

SB-6d32	15-04-0792-32-A	04/07/15 16:10	Solid	GC/MS O	04/11/15	04/15/15 12:49	150414L046
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Parameter	Result	RL	DF	Qualifiers
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Toluene-d8-TPPH	101	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-6d35	15-04-0792-33-A	04/07/15 16:25	Solid	GC/MS O	04/11/15	04/15/15 13:18	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	112	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d5.5	15-04-0792-34-A	04/07/15 08:25	Solid	GC/MS O	04/11/15	04/15/15 07:29	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	108	63-141		
1,2-Dichloroethane-d4	117	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	99	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d10	15-04-0792-35-A	04/07/15 08:35	Solid	GC/MS O	04/11/15	04/15/15 13:47	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	109	63-141		
1,2-Dichloroethane-d4	119	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	100	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d15	15-04-0792-36-A	04/07/15 08:45	Solid	GC/MS OO	04/11/15	04/15/15 08:48	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	110	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	99	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d20	15-04-0792-37-A	04/07/15 09:00	Solid	GC/MS OO	04/11/15	04/15/15 09:16	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d23	15-04-0792-38-A	04/07/15 09:10	Solid	GC/MS OO	04/11/15	04/17/15 09:31	150416L053

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	ND	1000	100	
Toluene	ND	1000	100	
p/m-Xylene	ND	1000	100	
o-Xylene	ND	1000	100	
Methyl-t-Butyl Ether (MTBE)	ND	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	
TPPH	530000	100000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	88	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	102	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d27	15-04-0792-39-A	04/07/15 09:20	Solid	GC/MS OO	04/11/15	04/17/15 09:59	150416L053

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	980	100	
1,2-Dibromoethane	ND	980	100	
1,2-Dichloroethane	ND	980	100	
Ethylbenzene	1500	980	100	
Toluene	ND	980	100	
p/m-Xylene	2300	980	100	
o-Xylene	ND	980	100	
Methyl-t-Butyl Ether (MTBE)	ND	980	100	
Tert-Butyl Alcohol (TBA)	ND	9800	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	98000	100	
TPPH	570000	98000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	89	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d32	15-04-0792-40-A	04/07/15 09:30	Solid	GC/MS OO	04/11/15	04/15/15 10:42	150414L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	480	50.0	
1,2-Dibromoethane	ND	480	50.0	
1,2-Dichloroethane	ND	480	50.0	
Ethylbenzene	ND	480	50.0	
Toluene	ND	480	50.0	
p/m-Xylene	ND	480	50.0	
o-Xylene	ND	480	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	480	50.0	
Tert-Butyl Alcohol (TBA)	ND	4800	50.0	
Diisopropyl Ether (DIPE)	ND	960	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	960	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	960	50.0	
Ethanol	ND	48000	50.0	
TPPH	180000	48000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	102	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-7d35	15-04-0792-41-A	04/07/15 09:50	Solid	GC/MS OO	04/11/15	04/17/15 10:28	150416L053

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	ND	1000	100	
Toluene	ND	1000	100	
p/m-Xylene	ND	1000	100	
o-Xylene	ND	1000	100	
Methyl-t-Butyl Ether (MTBE)	ND	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	
TPPH	440000	100000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	90	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	100	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d5.5	15-04-0792-42-A	04/07/15 11:25	Solid	GC/MS OO	04/11/15	04/15/15 06:53	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	108	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d10	15-04-0792-43-A	04/07/15 11:40	Solid	GC/MS OO	04/11/15	04/15/15 11:39	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	110	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	98	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d15	15-04-0792-44-A	04/07/15 11:50	Solid	GC/MS OO	04/11/15	04/15/15 12:08	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	99	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d19	15-04-0792-45-A	04/07/15 12:00	Solid	GC/MS OO	04/11/15	04/15/15 12:36	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d24	15-04-0792-46-A	04/07/15 12:15	Solid	GC/MS OO	04/11/15	04/19/15 16:01	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	ND	510	50.0	
Toluene	ND	510	50.0	
p/m-Xylene	ND	510	50.0	
o-Xylene	ND	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	200000	51000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	94	63-141		
1,2-Dichloroethane-d4	95	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d28	15-04-0792-47-A	04/07/15 12:30	Solid	GC/MS OO	04/11/15	04/15/15 13:33	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	490	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	104	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	104	87-111	

SB-8d28	15-04-0792-47-A	04/07/15 12:30	Solid	GC/MS OO	04/11/15	04/17/15 09:02	150416L053
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Parameter	Result	RL	DF	Qualifiers
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	90	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	99	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-8d35	15-04-0792-48-A	04/07/15 12:50	Solid	GC/MS OO	04/11/15	04/17/15 10:56	150416L053

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	ND	1000	100	
Toluene	ND	1000	100	
p/m-Xylene	ND	1000	100	
o-Xylene	ND	1000	100	
Methyl-t-Butyl Ether (MTBE)	ND	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	
TPPH	510000	100000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	90	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1821	N/A	Solid	GC/MS R	04/14/15	04/14/15 18:11	150414L019

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Naphthalene	ND	50	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	109	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1823	N/A	Solid	GC/MS O	04/14/15	04/15/15 06:31	150414L046

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	109	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	98	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1824	N/A	Solid	GC/MS R	04/14/15	04/14/15 18:39	150414L047

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	105	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1825	N/A	Solid	GC/MS OO	04/14/15	04/15/15 06:25	150414L048

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	106	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	95	60-132	
Toluene-d8-TPPH	98	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1831	N/A	Solid	GC/MS O	04/14/15	04/15/15 07:00	150414L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	63-141	
1,2-Dichloroethane-d4	114	62-146	
Toluene-d8	96	80-120	
1,4-Bromofluorobenzene	94	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1835	N/A	Solid	GC/MS O	04/14/15	04/15/15 05:56	150414L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	99	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1826	N/A	Solid	GC/MS R	04/15/15	04/15/15 19:58	150415L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	107	63-141		
1,2-Dichloroethane-d4	106	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	110	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1830</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/15/15</b>	<b>04/15/15 20:26</b>	<b>150415L048</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	106	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	98	60-132	
Toluene-d8-TPPH	106	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1836	N/A	Solid	GC/MS OO	04/16/15	04/17/15 07:08	150416L053

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	89	63-141	
1,2-Dichloroethane-d4	91	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	95	60-132	
Toluene-d8-TPPH	99	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1837	N/A	Solid	GC/MS OO	04/19/15	04/19/15 15:03	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1842	N/A	Solid	GC/MS O	04/20/15	04/20/15 18:20	150420L029

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	113	63-141	
1,2-Dichloroethane-d4	116	62-146	
Toluene-d8	97	80-120	
1,4-Bromofluorobenzene	93	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-6d10</b>	<b>Sample</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 00:32</b>	<b>150414S08</b>
<b>SB-6d10</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 19:16</b>	<b>150414S08</b>
<b>SB-6d10</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 19:32</b>	<b>150414S08</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	503.4	126	460.0	115	64-130	9	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-8d19</b>	<b>Sample</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 06:32</b>	<b>150414S09</b>
<b>SB-8d19</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 02:06</b>	<b>150414S09</b>
<b>SB-8d19</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 02:22</b>	<b>150414S09</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	465.2	116	437.9	109	64-130	6	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>SB-4d15</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/17/15 19:06</b>	<b>150414S05</b>				
<b>SB-4d15</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:26</b>	<b>150414S05</b>				
<b>SB-4d15</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:27</b>	<b>150414S05</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	ND	25.00	24.34	97	17.11	68	50-115	35	0-20	4
Arsenic	5.516	25.00	29.43	96	29.68	97	75-125	1	0-20	
Barium	127.1	25.00	142.9	4X	142.8	4X	75-125	4X	0-20	Q
Beryllium	0.4498	25.00	24.57	96	24.71	97	75-125	1	0-20	
Cadmium	ND	25.00	23.70	95	23.63	95	75-125	0	0-20	
Chromium	38.61	25.00	57.66	76	57.72	76	75-125	0	0-20	
Cobalt	5.614	25.00	32.06	106	31.16	102	75-125	3	0-20	
Copper	17.36	25.00	41.64	97	42.10	99	75-125	1	0-20	
Lead	5.170	25.00	47.23	168	43.83	155	75-125	7	0-20	3
Molybdenum	ND	25.00	22.82	91	22.85	91	75-125	0	0-20	
Nickel	53.01	25.00	74.49	86	73.27	81	75-125	2	0-20	
Selenium	ND	25.00	13.99	56	14.27	57	75-125	2	0-20	3
Silver	ND	12.50	11.54	92	11.54	92	75-125	0	0-20	
Thallium	ND	25.00	23.38	94	22.79	91	75-125	3	0-20	
Vanadium	32.08	25.00	56.24	97	55.89	95	75-125	1	0-20	
Zinc	39.17	25.00	58.48	77	59.33	81	75-125	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>SB-8d10</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 20:29</b>	<b>150414S06</b>				
<b>SB-8d10</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:28</b>	<b>150414S06</b>				
<b>SB-8d10</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:30</b>	<b>150414S06</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	ND	25.00	15.91	64	14.84	59	50-115	7	0-20	
Arsenic	6.752	25.00	29.95	93	29.54	91	75-125	1	0-20	
Barium	125.8	25.00	138.9	4X	137.0	4X	75-125	4X	0-20	Q
Beryllium	0.4796	25.00	24.12	95	23.93	94	75-125	1	0-20	
Cadmium	ND	25.00	23.13	93	22.95	92	75-125	1	0-20	
Chromium	47.29	25.00	74.08	107	71.53	97	75-125	4	0-20	
Cobalt	17.94	25.00	37.45	78	37.62	79	75-125	0	0-20	
Copper	25.75	25.00	49.63	96	49.61	95	75-125	0	0-20	
Lead	8.969	25.00	41.06	128	37.99	116	75-125	8	0-20	3
Molybdenum	ND	25.00	22.14	89	22.19	89	75-125	0	0-20	
Nickel	56.02	25.00	76.90	84	75.66	79	75-125	2	0-20	
Selenium	ND	25.00	10.35	41	10.98	44	75-125	6	0-20	3
Silver	ND	12.50	11.32	91	11.27	90	75-125	0	0-20	
Thallium	ND	25.00	22.30	89	22.22	89	75-125	0	0-20	
Vanadium	56.29	25.00	79.07	91	76.43	81	75-125	3	0-20	
Zinc	46.57	25.00	70.08	94	68.84	89	75-125	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>SB-4d15</b>	<b>Sample</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 16:59</b>	<b>150415S02</b>				
<b>SB-4d15</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:02</b>	<b>150415S02</b>				
<b>SB-4d15</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 17:04</b>	<b>150415S02</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	ND	0.8350	0.9600	115	0.9328	112	71-137	3	0-14	

  
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RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-8d10</b>	<b>Sample</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:02</b>	<b>150415S03</b>
<b>SB-8d10</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:04</b>	<b>150415S03</b>
<b>SB-8d10</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:06</b>	<b>150415S03</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	0.1177	0.005000	0.9877	4X	0.9209	4X	71-137	4X	0-14	Q

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-0956-4	Sample	Aqueous	GC/MS O	04/18/15	04/18/15 14:25	150418S008
15-04-0956-4	Matrix Spike	Aqueous	GC/MS O	04/18/15	04/18/15 14:54	150418S008
15-04-0956-4	Matrix Spike Duplicate	Aqueous	GC/MS O	04/18/15	04/18/15 15:23	150418S008

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	48.68	97	47.67	95	74-122	2	0-21	
Carbon Tetrachloride	ND	50.00	49.37	99	47.19	94	60-144	5	0-21	
Chlorobenzene	ND	50.00	51.42	103	50.25	100	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	50.82	102	50.12	100	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	51.80	104	49.33	99	70-120	5	0-26	
1,2-Dichloroethane	ND	50.00	51.49	103	49.86	100	64-142	3	0-20	
1,1-Dichloroethene	ND	50.00	48.87	98	48.52	97	52-136	1	0-21	
Ethylbenzene	ND	50.00	51.78	104	52.22	104	77-125	1	0-24	
Toluene	ND	50.00	48.48	97	48.02	96	72-126	1	0-23	
Trichloroethene	ND	50.00	49.22	98	47.10	94	74-128	4	0-22	
Vinyl Chloride	ND	50.00	34.99	70	37.61	75	67-133	7	0-20	
p/m-Xylene	ND	100.0	107.7	108	108.5	108	63-129	1	0-25	
o-Xylene	ND	50.00	56.34	113	56.45	113	62-128	0	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.73	99	47.97	96	68-134	4	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	247.3	99	247.9	99	65-143	0	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	48.94	98	48.28	97	61-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	51.29	103	50.57	101	64-136	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.04	100	49.04	98	67-133	2	0-20	
Ethanol	ND	500.0	428.5	86	480.8	96	34-178	11	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-0315-8	Sample	Aqueous	GC/MS OO	04/16/15	04/16/15 19:14	150416S028
15-04-0315-8	Matrix Spike	Aqueous	GC/MS OO	04/16/15	04/16/15 19:42	150416S028
15-04-0315-8	Matrix Spike Duplicate	Aqueous	GC/MS OO	04/16/15	04/16/15 20:11	150416S028

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	43.98	88	43.62	87	74-122	1	0-21	
Carbon Tetrachloride	ND	50.00	35.43	71	37.02	74	60-144	4	0-21	
Chlorobenzene	ND	50.00	48.37	97	48.27	97	73-120	0	0-22	
1,2-Dibromoethane	ND	50.00	46.28	93	45.92	92	80-122	1	0-20	
1,2-Dichlorobenzene	ND	50.00	48.53	97	48.82	98	70-120	1	0-26	
1,2-Dichloroethane	ND	50.00	50.71	101	49.60	99	64-142	2	0-20	
1,1-Dichloroethene	ND	50.00	42.85	86	41.73	83	52-136	3	0-21	
Ethylbenzene	ND	50.00	43.91	88	43.79	88	77-125	0	0-24	
Toluene	ND	50.00	47.46	95	46.59	93	72-126	2	0-23	
Trichloroethene	ND	50.00	43.95	88	43.54	87	74-128	1	0-22	
Vinyl Chloride	ND	50.00	35.60	71	35.26	71	67-133	1	0-20	
p/m-Xylene	ND	100.0	90.60	91	89.97	90	63-129	1	0-25	
o-Xylene	ND	50.00	45.65	91	45.11	90	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	41.88	84	41.86	84	68-134	0	0-21	
Tert-Butyl Alcohol (TBA)	16.37	250.0	226.7	84	224.8	83	65-143	1	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	43.77	88	43.83	88	61-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	35.38	71	35.94	72	64-136	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.51	87	44.36	89	67-133	2	0-20	
Ethanol	ND	500.0	517.6	104	503.8	101	34-178	3	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-7d5.5</b>	<b>Sample</b>	<b>Solid</b>	<b>GC/MS O</b>	<b>04/11/15</b>	<b>04/15/15 07:29</b>	<b>150414S026</b>
<b>SB-7d5.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC/MS O</b>	<b>04/11/15</b>	<b>04/15/15 07:58</b>	<b>150414S026</b>
<b>SB-7d5.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC/MS O</b>	<b>04/11/15</b>	<b>04/15/15 08:27</b>	<b>150414S026</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	36.09	72	42.07	84	61-127	15	0-20	
Carbon Tetrachloride	ND	50.00	39.50	79	46.52	93	51-135	16	0-29	
Chlorobenzene	ND	50.00	35.66	71	41.61	83	57-123	15	0-20	
1,2-Dichlorobenzene	ND	50.00	33.49	67	38.81	78	35-131	15	0-25	
1,2-Dibromoethane	ND	50.00	31.64	63	35.89	72	64-124	13	0-20	3
1,1-Dichloroethene	ND	50.00	41.38	83	48.75	97	47-143	16	0-25	
1,2-Dichloroethane	ND	50.00	34.66	69	39.21	78	80-120	12	0-20	3
Ethylbenzene	ND	50.00	39.44	79	45.30	91	57-129	14	0-22	
Toluene	ND	50.00	36.30	73	42.91	86	63-123	17	0-20	
Trichloroethene	ND	50.00	39.08	78	45.65	91	44-158	15	0-20	
p/m-Xylene	ND	100.0	83.21	83	96.06	96	70-130	14	0-30	
Vinyl Chloride	ND	50.00	34.95	70	39.19	78	49-139	11	0-47	
o-Xylene	ND	50.00	41.30	83	47.93	96	70-130	15	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	34.68	69	40.50	81	57-123	15	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	196.4	79	204.6	82	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	65.30	131	73.78	148	57-129	12	0-20	3
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	33.46	67	39.19	78	55-127	16	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	32.34	65	38.05	76	58-124	16	0-20	
Ethanol	ND	500.0	379.1	76	360.7	72	17-167	5	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-0994-42	Sample	Solid	GC/MS O	04/14/15	04/20/15 18:49	150420S016
15-04-0994-42	Matrix Spike	Solid	GC/MS O	04/14/15	04/20/15 20:46	150420S016
15-04-0994-42	Matrix Spike Duplicate	Solid	GC/MS O	04/14/15	04/20/15 21:15	150420S016

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.83	82	37.62	75	61-127	8	0-20	
Carbon Tetrachloride	ND	50.00	40.51	81	38.14	76	51-135	6	0-29	
Chlorobenzene	ND	50.00	39.45	79	36.74	73	57-123	7	0-20	
1,2-Dichlorobenzene	ND	50.00	38.43	77	35.56	71	35-131	8	0-25	
1,2-Dibromoethane	ND	50.00	38.91	78	35.63	71	64-124	9	0-20	
1,1-Dichloroethene	ND	50.00	44.42	89	42.58	85	47-143	4	0-25	
1,2-Dichloroethane	ND	50.00	40.99	82	37.97	76	80-120	8	0-20	3
Ethylbenzene	11.33	50.00	47.87	73	43.48	64	57-129	10	0-22	
Toluene	5.931	50.00	43.50	75	40.97	70	63-123	6	0-20	
Trichloroethene	ND	50.00	52.05	104	57.03	114	44-158	9	0-20	
p/m-Xylene	56.35	100.0	115.8	59	103.6	47	70-130	11	0-30	3
Vinyl Chloride	ND	50.00	44.24	88	47.71	95	49-139	8	0-47	
o-Xylene	28.37	50.00	60.34	64	54.57	52	70-130	10	0-30	3
Methyl-t-Butyl Ether (MTBE)	12.36	50.00	52.08	79	48.25	72	57-123	8	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	183.1	73	171.9	69	30-168	6	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	42.21	84	40.73	81	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	41.59	83	40.05	80	55-127	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	39.46	79	37.27	75	58-124	6	0-20	
Ethanol	ND	500.0	319.8	64	338.6	68	17-167	6	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-5d10	Sample	Solid	GC/MS R	04/11/15	04/14/15 19:07	150414S009
SB-5d10	Matrix Spike	Solid	GC/MS R	04/11/15	04/14/15 19:35	150414S009
SB-5d10	Matrix Spike Duplicate	Solid	GC/MS R	04/11/15	04/14/15 20:03	150414S009

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.24	92	47.56	95	61-127	3	0-20	
Carbon Tetrachloride	ND	50.00	45.33	91	48.52	97	51-135	7	0-29	
Chlorobenzene	ND	50.00	50.59	101	49.67	99	57-123	2	0-20	
1,2-Dichlorobenzene	ND	50.00	49.68	99	50.95	102	35-131	3	0-25	
1,2-Dibromoethane	ND	50.00	48.54	97	48.63	97	64-124	0	0-20	
1,1-Dichloroethene	ND	50.00	52.11	104	55.24	110	47-143	6	0-25	
1,2-Dichloroethane	ND	50.00	47.05	94	48.39	97	80-120	3	0-20	
Ethylbenzene	ND	50.00	49.42	99	48.65	97	57-129	2	0-22	
Toluene	ND	50.00	50.88	102	48.36	97	63-123	5	0-20	
Trichloroethene	ND	50.00	46.89	94	48.80	98	44-158	4	0-20	
p/m-Xylene	ND	100.0	104.2	104	103.0	103	70-130	1	0-30	
Vinyl Chloride	ND	50.00	47.19	94	53.83	108	49-139	13	0-47	
o-Xylene	ND	50.00	52.29	105	53.35	107	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	54.61	109	58.18	116	57-123	6	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	266.4	107	248.4	99	30-168	7	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	56.52	113	59.79	120	57-129	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	55.79	112	57.33	115	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.64	99	50.37	101	58-124	1	0-20	
Ethanol	ND	500.0	535.8	107	548.2	110	17-167	2	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-0994-1	Sample	Solid	GC/MS R	04/14/15	04/15/15 20:54	150415S010
15-04-0994-1	Matrix Spike	Solid	GC/MS R	04/14/15	04/15/15 21:22	150415S010
15-04-0994-1	Matrix Spike Duplicate	Solid	GC/MS R	04/14/15	04/15/15 21:50	150415S010

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	44.93	90	41.97	84	61-127	7	0-20	
Carbon Tetrachloride	ND	50.00	43.77	88	37.65	75	51-135	15	0-29	
Chlorobenzene	ND	50.00	47.55	95	42.56	85	57-123	11	0-20	
1,2-Dichlorobenzene	ND	50.00	46.08	92	44.01	88	35-131	5	0-25	
1,2-Dibromoethane	ND	50.00	46.58	93	47.72	95	64-124	2	0-20	
1,1-Dichloroethene	ND	50.00	45.46	91	45.11	90	47-143	1	0-25	
1,2-Dichloroethane	ND	50.00	43.62	87	45.54	91	80-120	4	0-20	
Ethylbenzene	ND	50.00	46.82	94	40.62	81	57-129	14	0-22	
Toluene	ND	50.00	46.76	94	42.38	85	63-123	10	0-20	
Trichloroethene	ND	50.00	45.54	91	43.69	87	44-158	4	0-20	
p/m-Xylene	ND	100.0	99.55	100	86.29	86	70-130	14	0-30	
Vinyl Chloride	ND	50.00	41.45	83	46.24	92	49-139	11	0-47	
o-Xylene	ND	50.00	50.29	101	45.06	90	70-130	11	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	45.71	91	56.43	113	57-123	21	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	259.2	104	245.5	98	30-168	5	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	49.36	99	45.88	92	57-129	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	49.39	99	47.37	95	55-127	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	46.31	93	49.58	99	58-124	7	0-20	
Ethanol	ND	500.0	591.4	118	652.3	130	17-167	10	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-8d5.5	Sample	Solid	GC/MS OO	04/11/15	04/15/15 06:53	150414S021
SB-8d5.5	Matrix Spike	Solid	GC/MS OO	04/11/15	04/15/15 07:22	150414S021
SB-8d5.5	Matrix Spike Duplicate	Solid	GC/MS OO	04/11/15	04/15/15 07:50	150414S021

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	34.12	68	33.05	66	61-127	3	0-20	
Carbon Tetrachloride	ND	50.00	26.61	53	28.34	57	51-135	6	0-29	
Chlorobenzene	ND	50.00	35.30	71	34.08	68	57-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	33.16	66	30.79	62	35-131	7	0-25	
1,2-Dibromoethane	ND	50.00	30.25	61	28.01	56	64-124	8	0-20	3
1,1-Dichloroethene	ND	50.00	37.57	75	37.36	75	47-143	1	0-25	
1,2-Dichloroethane	ND	50.00	35.30	71	32.66	65	80-120	8	0-20	3
Ethylbenzene	ND	50.00	34.54	69	33.45	67	57-129	3	0-22	
Toluene	ND	50.00	36.25	72	35.07	70	63-123	3	0-20	
Trichloroethene	ND	50.00	38.21	76	36.27	73	44-158	5	0-20	
p/m-Xylene	ND	100.0	70.81	71	67.46	67	70-130	5	0-30	3
Vinyl Chloride	ND	50.00	33.40	67	32.94	66	49-139	1	0-47	
o-Xylene	ND	50.00	34.31	69	32.64	65	70-130	5	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	30.56	61	21.49	43	57-123	35	0-21	3,4
Tert-Butyl Alcohol (TBA)	ND	250.0	131.4	53	97.88	39	30-168	29	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	33.74	67	40.21	80	57-129	18	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	29.19	58	27.54	55	55-127	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	27.95	56	26.34	53	58-124	6	0-20	3
Ethanol	ND	500.0	113.7	23	206.6	41	17-167	58	0-47	4

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RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-0769-5	Sample	Solid	GC/MS OO	04/10/15	04/17/15 11:58	150416S012
15-04-0769-5	Matrix Spike	Solid	GC/MS OO	04/10/15	04/17/15 08:05	150416S012
15-04-0769-5	Matrix Spike Duplicate	Solid	GC/MS OO	04/10/15	04/17/15 08:34	150416S012

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	37.78	76	37.34	75	61-127	1	0-20	
Carbon Tetrachloride	ND	50.00	31.82	64	31.61	63	51-135	1	0-29	
Chlorobenzene	ND	50.00	39.48	79	39.36	79	57-123	0	0-20	
1,2-Dibromoethane	ND	50.00	38.30	77	37.43	75	64-124	2	0-20	
1,2-Dichlorobenzene	ND	50.00	36.85	74	36.75	73	35-131	0	0-25	
1,2-Dichloroethane	ND	50.00	41.42	83	40.10	80	80-120	3	0-20	
1,1-Dichloroethene	ND	50.00	37.15	74	36.83	74	47-143	1	0-25	
Ethylbenzene	ND	50.00	36.15	72	36.61	73	57-129	1	0-22	
Toluene	ND	50.00	40.16	80	40.16	80	63-123	0	0-20	
Trichloroethene	ND	50.00	39.54	79	38.96	78	44-158	1	0-20	
Vinyl Chloride	ND	50.00	34.75	70	34.27	69	49-139	1	0-47	
p/m-Xylene	ND	100.0	73.17	73	73.83	74	70-130	1	0-30	
o-Xylene	ND	50.00	36.56	73	37.13	74	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	36.77	74	35.78	72	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	169.6	68	163.8	66	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	38.00	76	37.52	75	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	31.41	63	30.69	61	55-127	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	37.79	76	37.37	75	58-124	1	0-20	
Ethanol	ND	500.0	262.3	52	214.1	43	17-167	20	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-8d24	Sample	Solid	GC/MS OO	04/11/15	04/19/15 16:01	150419S006
SB-8d24	Matrix Spike	Solid	GC/MS OO	04/11/15	04/19/15 16:30	150419S006
SB-8d24	Matrix Spike Duplicate	Solid	GC/MS OO	04/11/15	04/19/15 16:58	150419S006

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.96	104	51.10	102	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	50.17	100	47.63	95	51-135	5	0-29	
Chlorobenzene	ND	50.00	55.09	110	54.56	109	57-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	54.20	108	55.12	110	35-131	2	0-25	
1,2-Dibromoethane	ND	50.00	50.67	101	51.14	102	64-124	1	0-20	
1,1-Dichloroethene	ND	50.00	52.18	104	49.53	99	47-143	5	0-25	
1,2-Dichloroethane	ND	50.00	51.96	104	52.18	104	80-120	0	0-20	
Ethylbenzene	ND	50.00	56.02	112	54.47	109	57-129	3	0-22	
Toluene	ND	50.00	54.15	108	53.48	107	63-123	1	0-20	
Trichloroethene	ND	50.00	51.13	102	49.73	99	44-158	3	0-20	
p/m-Xylene	ND	100.0	116.7	117	113.6	114	70-130	3	0-30	
Vinyl Chloride	ND	50.00	60.87	122	56.37	113	49-139	8	0-47	
o-Xylene	ND	50.00	58.82	118	57.47	115	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.76	102	51.54	103	57-123	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	280.8	112	290.2	116	30-168	3	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	49.83	100	50.30	101	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.05	100	50.53	101	55-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	54.87	110	56.89	114	58-124	4	0-20	
Ethanol	ND	500.0	2258	452	2395	479	17-167	6	0-47	3

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1010	LCS	Aqueous	GC 45	04/13/15	04/16/15 22:07	150413B14			
099-15-304-1010	LCSD	Aqueous	GC 45	04/13/15	04/16/15 22:24	150413B14			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	2032	102	2176	109	75-117	7	0-13	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1727</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/14/15 19:00</b>	<b>150414B08</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	476.8	119	75-123	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1728</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 48</b>	<b>04/14/15</b>	<b>04/15/15 01:50</b>	<b>150414B09</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	492.7	123	75-123	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20801</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:21</b>	<b>150414L05</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	24.78	99	80-120	73-127	
Arsenic		25.00	22.88	92	80-120	73-127	
Barium		25.00	22.92	92	80-120	73-127	
Beryllium		25.00	22.63	91	80-120	73-127	
Cadmium		25.00	23.95	96	80-120	73-127	
Chromium		25.00	25.05	100	80-120	73-127	
Cobalt		25.00	25.25	101	80-120	73-127	
Copper		25.00	24.36	97	80-120	73-127	
Lead		25.00	24.34	97	80-120	73-127	
Molybdenum		25.00	23.87	95	80-120	73-127	
Nickel		25.00	25.04	100	80-120	73-127	
Selenium		25.00	22.64	91	80-120	73-127	
Silver		12.50	11.33	91	80-120	73-127	
Thallium		25.00	22.86	91	80-120	73-127	
Vanadium		25.00	24.14	97	80-120	73-127	
Zinc		25.00	24.06	96	80-120	73-127	

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

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20802</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/14/15</b>	<b>04/15/15 19:23</b>	<b>150414L06</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	25.59	102	80-120	73-127	
Arsenic		25.00	23.57	94	80-120	73-127	
Barium		25.00	21.19	85	80-120	73-127	
Beryllium		25.00	23.91	96	80-120	73-127	
Cadmium		25.00	24.48	98	80-120	73-127	
Chromium		25.00	25.35	101	80-120	73-127	
Cobalt		25.00	26.02	104	80-120	73-127	
Copper		25.00	24.91	100	80-120	73-127	
Lead		25.00	24.85	99	80-120	73-127	
Molybdenum		25.00	24.82	99	80-120	73-127	
Nickel		25.00	25.58	102	80-120	73-127	
Selenium		25.00	23.60	94	80-120	73-127	
Silver		12.50	10.51	84	80-120	73-127	
Thallium		25.00	24.58	98	80-120	73-127	
Vanadium		25.00	24.65	99	80-120	73-127	
Zinc		25.00	24.85	99	80-120	73-127	

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

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1164</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 16:57</b>	<b>150415L02</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.9814	118	85-121	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1165</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/15/15</b>	<b>04/15/15 18:00</b>	<b>150415L03</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.9205	110	85-121	


  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6872	LCS	Aqueous	GC/MS O	04/18/15	04/18/15 12:10	150418L021				
099-12-767-6872	LCSD	Aqueous	GC/MS O	04/18/15	04/18/15 12:43	150418L021				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.38	99	N/A	N/A	80-120	73-127	N/A	0-20	
Carbon Tetrachloride	50.00	50.89	102	N/A	N/A	67-139	55-151	N/A	0-20	
Chlorobenzene	50.00	51.82	104	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.69	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	51.72	103	N/A	N/A	63-129	52-140	N/A	0-20	
1,2-Dichloroethane	50.00	52.64	105	N/A	N/A	70-130	60-140	N/A	0-20	
1,1-Dichloroethene	50.00	51.30	103	N/A	N/A	66-126	56-136	N/A	0-20	
Ethylbenzene	50.00	54.55	109	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	49.71	99	N/A	N/A	80-120	73-127	N/A	0-20	
Trichloroethene	50.00	49.52	99	N/A	N/A	80-122	73-129	N/A	0-20	
Vinyl Chloride	50.00	38.97	78	N/A	N/A	70-130	60-140	N/A	0-20	
p/m-Xylene	100.0	115.1	115	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	59.11	118	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.97	102	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	252.3	101	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	64.65	129	N/A	N/A	68-128	58-138	N/A	0-20	ME
Ethyl-t-Butyl Ether (ETBE)	50.00	51.81	104	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.22	100	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	531.7	106	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	962.5	96	939.5	94	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6868	LCS	Aqueous	GC/MS OO	04/16/15	04/16/15 16:59	150416L051				
099-12-767-6868	LCSD	Aqueous	GC/MS OO	04/16/15	04/16/15 17:28	150416L051				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.93	92	N/A	N/A	80-120	73-127	N/A	0-20	
Carbon Tetrachloride	50.00	39.76	80	N/A	N/A	67-139	55-151	N/A	0-20	
Chlorobenzene	50.00	49.99	100	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	46.83	94	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	49.88	100	N/A	N/A	63-129	52-140	N/A	0-20	
1,2-Dichloroethane	50.00	49.56	99	N/A	N/A	70-130	60-140	N/A	0-20	
1,1-Dichloroethene	50.00	43.31	87	N/A	N/A	66-126	56-136	N/A	0-20	
Ethylbenzene	50.00	45.92	92	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	48.72	97	N/A	N/A	80-120	73-127	N/A	0-20	
Trichloroethene	50.00	46.70	93	N/A	N/A	80-122	73-129	N/A	0-20	
Vinyl Chloride	50.00	39.26	79	N/A	N/A	70-130	60-140	N/A	0-20	
p/m-Xylene	100.0	93.74	94	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	46.88	94	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	41.09	82	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	223.1	89	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	42.99	86	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	35.84	72	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	43.80	88	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	479.7	96	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	911.6	91	907.2	91	65-135	53-147	0	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1823	LCS	Solid	GC/MS O	04/14/15	04/15/15 04:34	150414L046				
099-12-798-1823	LCSD	Solid	GC/MS O	04/14/15	04/15/15 05:03	150414L046				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.28	87	43.28	87	78-120	71-127	0	0-20	
Carbon Tetrachloride	50.00	42.97	86	42.97	86	49-139	34-154	0	0-20	
Chlorobenzene	50.00	43.63	87	43.63	87	79-120	72-127	0	0-20	
1,2-Dichlorobenzene	50.00	43.61	87	43.61	87	75-120	68-128	0	0-20	
1,2-Dibromoethane	50.00	46.05	92	46.05	92	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	45.11	90	45.11	90	74-122	66-130	0	0-20	
1,2-Dichloroethane	50.00	47.92	96	47.92	96	80-120	73-127	0	0-20	
Ethylbenzene	50.00	44.56	89	44.56	89	76-120	69-127	0	0-20	
Toluene	50.00	43.06	86	43.06	86	77-120	70-127	0	0-20	
Trichloroethene	50.00	42.43	85	42.43	85	80-120	73-127	0	0-20	
p/m-Xylene	100.0	94.85	95	94.85	95	75-125	67-133	0	0-25	
Vinyl Chloride	50.00	36.01	72	36.01	72	68-122	59-131	0	0-20	
o-Xylene	50.00	48.91	98	48.91	98	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.22	94	47.22	94	77-120	70-127	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	221.3	89	221.3	89	68-122	59-131	0	0-20	
Diisopropyl Ether (DIPE)	50.00	44.67	89	44.67	89	78-120	71-127	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.95	92	45.95	92	78-120	71-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.44	91	45.44	91	75-120	68-128	0	0-20	
Ethanol	500.0	427.1	85	427.1	85	56-140	42-154	0	0-20	
TPPH	1000	1074	107	1069	107	65-135	53-147	0	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1831	LCS	Solid	GC/MS O	04/14/15	04/15/15 04:34	150414L057				
099-12-798-1831	LCSD	Solid	GC/MS O	04/14/15	04/15/15 05:03	150414L057				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.28	87	43.28	87	78-120	71-127	0	0-20	
Carbon Tetrachloride	50.00	42.97	86	42.97	86	49-139	34-154	0	0-20	
Chlorobenzene	50.00	43.63	87	43.63	87	79-120	72-127	0	0-20	
1,2-Dichlorobenzene	50.00	43.61	87	43.61	87	75-120	68-128	0	0-20	
1,2-Dibromoethane	50.00	46.05	92	46.05	92	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	45.11	90	45.11	90	74-122	66-130	0	0-20	
1,2-Dichloroethane	50.00	47.92	96	47.92	96	80-120	73-127	0	0-20	
Ethylbenzene	50.00	44.56	89	44.56	89	76-120	69-127	0	0-20	
Toluene	50.00	43.06	86	43.06	86	77-120	70-127	0	0-20	
Trichloroethene	50.00	42.43	85	42.43	85	80-120	73-127	0	0-20	
p/m-Xylene	100.0	94.85	95	94.85	95	75-125	67-133	0	0-25	
Vinyl Chloride	50.00	36.01	72	36.01	72	68-122	59-131	0	0-20	
o-Xylene	50.00	48.91	98	48.91	98	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.22	94	47.22	94	77-120	70-127	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	221.3	89	221.3	89	68-122	59-131	0	0-20	
Diisopropyl Ether (DIPE)	50.00	44.67	89	44.67	89	78-120	71-127	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.95	92	45.95	92	78-120	71-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.44	91	45.44	91	75-120	68-128	0	0-20	
Ethanol	500.0	427.1	85	427.1	85	56-140	42-154	0	0-20	
TPPH	1000	1074	107	1069	107	65-135	53-147	0	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1842	LCS	Solid	GC/MS O	04/20/15	04/20/15 15:40	150420L029				
099-12-798-1842	LCSD	Solid	GC/MS O	04/20/15	04/20/15 16:15	150420L029				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.44	99	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	49.73	99	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	51.66	103	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	51.34	103	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	49.34	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	51.94	104	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	50.96	102	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.57	105	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	49.63	99	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.88	98	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	110.8	111	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	51.69	103	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	57.61	115	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.46	103	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	256.4	103	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	51.37	103	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	54.13	108	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.47	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	491.9	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	874.2	87	884.4	88	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1821	LCS	Solid	GC/MS R	04/14/15	04/14/15 16:47	150414L019				
099-12-798-1821	LCSD	Solid	GC/MS R	04/14/15	04/14/15 17:15	150414L019				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.49	99	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	51.35	103	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	52.42	105	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.67	101	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	49.46	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	61.42	123	N/A	N/A	74-122	66-130	N/A	0-20	ME
1,2-Dichloroethane	50.00	46.64	93	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.25	105	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	50.20	100	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	51.86	104	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	109.5	110	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	61.10	122	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	56.43	113	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	56.54	113	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	222.1	89	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	58.45	117	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.60	99	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.15	98	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	539.7	108	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	1006	101	945.8	95	65-135	53-147	6	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1824	LCS	Solid	GC/MS R	04/14/15	04/14/15 16:47	150414L047				
099-12-798-1824	LCSD	Solid	GC/MS R	04/14/15	04/14/15 17:15	150414L047				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.49	99	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	51.35	103	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	52.42	105	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.67	101	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	49.46	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	61.42	123	N/A	N/A	74-122	66-130	N/A	0-20	ME
1,2-Dichloroethane	50.00	46.64	93	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.25	105	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	50.20	100	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	51.86	104	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	109.5	110	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	61.10	122	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	56.43	113	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	56.54	113	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	222.1	89	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	58.45	117	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.60	99	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.15	98	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	539.7	108	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	1006	101	945.8	95	65-135	53-147	6	0-30	

Total number of LCS compounds: 20

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 Limits





Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1826	LCS	Solid	GC/MS R	04/15/15	04/15/15 18:01	150415L009				
099-12-798-1826	LCSD	Solid	GC/MS R	04/15/15	04/15/15 19:02	150415L009				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.69	95	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	48.72	97	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	49.84	100	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	48.08	96	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	45.56	91	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	56.12	112	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	46.78	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.06	98	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.04	96	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.62	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	102.4	102	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	53.37	107	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.61	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	53.37	107	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	215.6	86	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	55.70	111	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.23	94	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.24	98	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	532.3	106	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	930.4	93	974.9	97	65-135	53-147	5	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1830	LCS	Solid	GC/MS R	04/15/15	04/15/15 18:01	150415L048				
099-12-798-1830	LCSD	Solid	GC/MS R	04/15/15	04/15/15 19:02	150415L048				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.69	95	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	48.72	97	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	49.84	100	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	48.08	96	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	45.56	91	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	56.12	112	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	46.78	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.06	98	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.04	96	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.62	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	102.4	102	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	53.37	107	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.61	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	53.37	107	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	215.6	86	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	55.70	111	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.23	94	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.24	98	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	532.3	106	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	930.4	93	974.9	97	65-135	53-147	5	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1825	LCS	Solid	GC/MS OO	04/14/15	04/15/15 04:31	150414L048				
099-12-798-1825	LCSD	Solid	GC/MS OO	04/14/15	04/15/15 04:59	150414L048				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.25	93	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	34.63	69	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	50.33	101	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.19	100	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	49.26	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	45.50	91	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	54.15	108	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	46.01	92	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.87	98	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	46.94	94	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	93.80	94	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	41.84	84	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	47.43	95	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.96	90	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	225.3	90	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.54	95	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	38.28	77	N/A	N/A	78-120	71-127	N/A	0-20	ME
Tert-Amyl-Methyl Ether (TAME)	50.00	45.04	90	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	520.7	104	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	904.6	90	894.3	89	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1835	LCS	Solid	GC/MS OO	04/14/15	04/15/15 04:31	150414L062				
099-12-798-1835	LCSD	Solid	GC/MS OO	04/14/15	04/15/15 04:59	150414L062				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.25	93	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	34.63	69	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	50.33	101	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.19	100	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	49.26	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	45.50	91	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	54.15	108	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	46.01	92	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.87	98	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	46.94	94	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	93.80	94	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	41.84	84	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	47.43	95	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.96	90	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	225.3	90	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.54	95	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	38.28	77	N/A	N/A	78-120	71-127	N/A	0-20	ME
Tert-Amyl-Methyl Ether (TAME)	50.00	45.04	90	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	520.7	104	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	904.6	90	894.3	89	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix		Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-798-1836	LCS	Solid		GC/MS OO	04/16/15	04/17/15 05:14	150416L053			
099-12-798-1836	LCSD	Solid		GC/MS OO	04/16/15	04/17/15 05:43	150416L053			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.48	93	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	39.77	80	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	47.05	94	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dibromoethane	50.00	47.85	96	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	47.39	95	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dichloroethane	50.00	51.93	104	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethane	50.00	45.41	91	N/A	N/A	74-122	66-130	N/A	0-20	
Ethylbenzene	50.00	44.62	89	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.49	97	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	46.97	94	N/A	N/A	80-120	73-127	N/A	0-20	
Vinyl Chloride	50.00	43.50	87	N/A	N/A	68-122	59-131	N/A	0-20	
p/m-Xylene	100.0	87.88	88	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	44.37	89	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.59	89	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	218.5	87	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	44.17	88	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	36.92	74	N/A	N/A	78-120	71-127	N/A	0-20	ME
Tert-Amyl-Methyl Ether (TAME)	50.00	44.88	90	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	468.1	94	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	823.8	82	832.2	83	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/10/15  
Work Order: 15-04-0792  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

Page 20 of 20

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1837	LCS	Solid	GC/MS OO	04/19/15	04/19/15 12:47	150419L003				
099-12-798-1837	LCSD	Solid	GC/MS OO	04/19/15	04/19/15 13:15	150419L003				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.22	104	52.22	104	78-120	71-127	0	0-20	
Carbon Tetrachloride	50.00	62.72	125	62.72	125	49-139	34-154	0	0-20	
Chlorobenzene	50.00	54.97	110	54.97	110	79-120	72-127	0	0-20	
1,2-Dichlorobenzene	50.00	54.05	108	54.05	108	75-120	68-128	0	0-20	
1,2-Dibromoethane	50.00	51.57	103	51.57	103	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	51.74	103	51.74	103	74-122	66-130	0	0-20	
1,2-Dichloroethane	50.00	51.26	103	51.26	103	80-120	73-127	0	0-20	
Ethylbenzene	50.00	55.36	111	55.36	111	76-120	69-127	0	0-20	
Toluene	50.00	52.85	106	52.85	106	77-120	70-127	0	0-20	
Trichloroethene	50.00	52.42	105	52.42	105	80-120	73-127	0	0-20	
p/m-Xylene	100.0	114.2	114	114.2	114	75-125	67-133	0	0-25	
Vinyl Chloride	50.00	40.64	81	40.64	81	68-122	59-131	0	0-20	
o-Xylene	50.00	56.73	113	56.73	113	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.67	97	48.67	97	77-120	70-127	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	246.4	99	246.4	99	68-122	59-131	0	0-20	
Diisopropyl Ether (DIPE)	50.00	47.65	95	47.65	95	78-120	71-127	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.04	94	47.04	94	78-120	71-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.75	103	51.75	103	75-120	68-128	0	0-20	
Ethanol	500.0	466.9	93	466.9	93	56-140	42-154	0	0-20	
TPPH	1000	800.8	80	789.0	79	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits

## Sample Analysis Summary Report

Work Order: 15-04-0792

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3510C	682	GC 45	1
EPA 8015B (M)	EPA 3510C	949	GC 45	1
EPA 8015B (M)	EPA 3550B	421	GC 48	1
EPA 8015B (M)	EPA 3550B	949	GC 48	1
GC/MS / EPA 8260B	EPA 5030C	163	GC/MS O	2
GC/MS / EPA 8260B	EPA 5030C	163	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	849	GC/MS O	2
GC/MS / EPA 8260B	EPA 5030C	849	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	975	GC/MS O	2

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

## Glossary of Terms and Qualifiers

Work Order: 15-04-0792

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
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. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.





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LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110

CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: 1 OF 5

PAGE: 1 OF 5

WO NO./LAB USE ONLY  
**15-04-0792**

CLIENT PROJECT NAME / NO.:

BP #1117

PROJECT CONTACT:

Dennis Dettloff

GLOBAL ID:

T0600100201

LOG CODE:

SAMPLER(S): (PRINT)  
Jonathan Fillingame

P.O. NO.:

4261117

LAB CONTACT OR QUOTE NO.:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRC by 8260B	TPH(d) <input type="checkbox"/> DRC by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B heptachlor	CAM17 Metals
1	SB-4 GW	4/6/15	19:10	Water	4	1	3		X	X	X		
2	SB-5 GW	4/6/15	19:25	Water	4	1	3		X	X	X		
3	SB-6 GW	4/7/15	16:45	Water	4	1	3		X	X	X		
4	SB-7 GW	4/7/15	10:50	Water	4	1	3		X	X	X		
5	SB-8 GW	4/7/15	12:50	Water	4	1	3		X	X	X		
6	SB-9 GW	4/8/15	12:10	Water	4	1	3		X	X	X		
7	SB-10 GW	4/8/15	19:00	Water	4	1	3		X	X	X		
8	SB-11 GW	4/9/15	14:50	Water	4	1	3		X	X	X		
9	SB-12 GW	4/9/15	15:00	Water	4	1	3		X	X	X		
10	SB-13 GW	4/9/15	19:10	Water	4	1	3		X	X	X		

Received by: (Signature/Affiliation)

Received by: (Signature/Affiliation)

Received by: (Signature/Affiliation)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date:

Date:

Date:

Time:

Time:

Time:

WJ

4/10/15

10:25

(Fedex)

J. Dettloff

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**CHAIN-OF-CUSTODY RECORD**

DATE: \_\_\_\_\_  
PAGE: 2 OF 5

W/O NO. / LAB USE ONLY  
**15-04-0792**

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110  
CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS:  
CC results to jonathan.fillingame@anteagroup.com

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	REQUESTED ANALYSES										Time:							
		DATE	TIME						Please check box or fill in blank as needed.																	
	11 SB-4d5.5	4/6/15	9:55	Soil	1	/																				
	12 SB-4d10	4/6/15	10:00		1	/																				
	13 SB-4d15	4/6/15	10:10		1	/																				
	14 SB-4d20	4/6/15	10:15		1	/																				
	15 SB-4d25	4/6/15	10:25		1	/																				
	16 SB-4d27	4/6/15	10:40		1	/																				
	17 SB-4d30	4/6/15	10:50		1	/																				
	18 SB-4d35	4/6/15	11:00		1	/																				
	19 SB-5d5.5	4/6/15	12:50		1	/																				
	20 SB-5d10	4/6/15	13:00		1	/																				

CLIENT PROJECT NAME / NO.: \_\_\_\_\_  
BP #11117

PROJECT CONTACT: Dennis Dettloff

GLOBAL ID: T0600100201

LOG CODE: \_\_\_\_\_

SAMPLER(S): (PRINT) Jonathan Fillingame

P.O. NO.: J4261117

LAB CONTACT OR QUOTE NO.: \_\_\_\_\_

Received by: (Signature/Affiliation) *Jonathan Fillingame*  
Received by: (Signature/Affiliation) \_\_\_\_\_  
Received by: (Signature/Affiliation) \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_ Date: 4/10/15

Time: \_\_\_\_\_ Time: \_\_\_\_\_ Time: 10:25

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CHAIN-OF-CUSTODY RECORD

DATE: \_\_\_\_\_  
PAGE: 3 OF 5

W/O NO. / LAB USE ONLY  
15-04-0792

CLIENT PROJECT NAME / NO.: \_\_\_\_\_  
BP #11117  
PROJECT CONTACT: Dennis Dettloff  
GLOBAL ID: T0600100201  
LOG CODE: \_\_\_\_\_  
P.O. NO.: T4261117  
LAB CONTACT OR QUOTE NO.: \_\_\_\_\_  
SAMPLER(S): (PRINT) Jonathan Fillingame

REQUESTED ANALYSES  
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B Napthalene	CAM17 Metals
21	SB-5d16	4/6/15	12:50	Soil	1	/			X	X	X		X
22	SB-5d20	4/6/15	13:00		1	/			X	X	X		X
23	SB-5d28	4/6/15	13:40		1	/			X	X	X		X
24	SB-5d30	4/6/15	13:55		1	/			X	X	X		X
25	SB-5d32.5	4/6/15	14:10		1	/			X	X	X		X
26	SB-5d38	4/6/15	14:30		1	/			X	X	X		X
27	SB-6d5.5	4/7/15	15:20		1	/			X	X	X		X
28	SB-6d10	4/7/15	15:25		1	/			X	X	X		X
29	SB-6d15	4/7/15	15:30		1	/			X	X	X		X
30	SB-6d20	4/7/15	15:35		1	/			X	X	X		X

Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: 4/10/15 Time: 1025

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Received by: (Signature/Affiliation) \_\_\_\_\_  
Received by: (Signature/Affiliation) *J. Fillingame* (Fedex)





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SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: 4 OF 5  
PAGE: 4 OF 5

WO NO: 7 LAB USE ONLY  
15-04-0792

CLIENT PROJECT NAME / NO.:

BP #11117

PROJECT CONTACT:

Dennis Dettloff

GLOBAL ID:

T0600100201

P.O. NO.:

4261117

LAB CONTACT OR QUOTE NO.:

SAMPLER(S): (PRINT)

Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO by 8260B	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO by 8015B	w/ silica gel	BTEX, MTBE, ETBE, DPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B naphthalene	CAM17 Metals
		DATE	TIME											
31	SB-6d26	4/7/15	15:45	Soil	1	/			X	X		X		X
32	SB-6d32	4/7/15	16:10		1	/			X	X		X		X
33	SB-6d35	4/7/15	16:25		1	/			X	X		X		X
34	SB-7d5.5	4/7/15	8:25		1	/			X	X		X		X
35	SB-7d10	4/7/15	8:35		1	/			X	X		X		X
36	SB-7d15	4/7/15	8:45		1	/			X	X		X		X
37	SB-7d20	4/7/15	9:00		1	/			X	X		X		X
38	SB-7d23	4/7/15	9:10		1	/			X	X		X		X
39	SB-7d27	4/7/15	9:20		1	/			X	X		X		X
40	SB-7d32	4/7/15	9:30		1	/			X	X		X		X

Received by: (Signature/Affiliation)

Jonathan Fillingame

Received by: (Signature/Affiliation)

Received by: (Signature/Affiliation) (Telax)

Received by: (Signature/Affiliation) eca

Date: 4/10/15





Calscience

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SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

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CHAIN-OF-CUSTODY RECORD

DATE: \_\_\_\_\_ PAGE: 5 OF 5

WO NO. / LAB USE ONLY  
15-04-0792

CLIENT PROJECT NAME / NO.:

BP #11117

PROJECT CONTACT:

Dennis Dettloff

GLOBAL ID: LOG CODE:

T0600100201

P.O. NO.:

I42611117

LAB CONTACT OR QUOTE NO.:

SAMPLER(S): (PRINT)

Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO by 8260B	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO by 8015B <i>wisiba gel</i>	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B <i>8260B Napthalene</i>	CAM17 Metals
41	SB-7d35	4/7/15	9:50	Soil	1	/			X	X	X	X
42	SB-8d55	4/7/15	11:25		1	/			X	X	X	X
43	SB-8d10	4/7/15	11:40		1	/			X	X	X	X
44	SB-8d15	4/7/15	11:50		1	/			X	X	X	X
45	SB-8d19	4/7/15	12:00		1	/			X	X	X	X
46	SB-8d24	4/7/15	12:15		1	/			X	X	X	X
47	SB-8d28	4/7/15	12:30		1	/			X	X	X	X
48	SB-8d35	4/7/15	12:50		1	/			X	X	X	X

Received by: (Signature/Affiliation)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature/Affiliation)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature/Affiliation)

Date: 4/10/15 Time: 2:25

*Jonathan Fillingame*

*Jonathan Fillingame* (Fedex)



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1 From  
 Date 4/1/15  
 Sender's Name Antea Group  
 Phone 800 477-7411  
 Company  
 Address 11050 White Rock Road  
 City Rancho Cordova State CA ZIP 95670

2 Your Internal Billing Reference

3 To  
 Recipient's Name Richard  
 Phone 714 875-5494  
 Company Encobius Cal Science  
 Address 7440 Lincoln Way  
 City Garden Grove State CA ZIP 92841



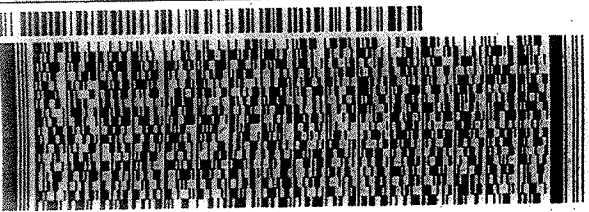
8064 4497 8583

GARDEN GROVE CA 92841

(714) 895-5494

REF:

DEPT:

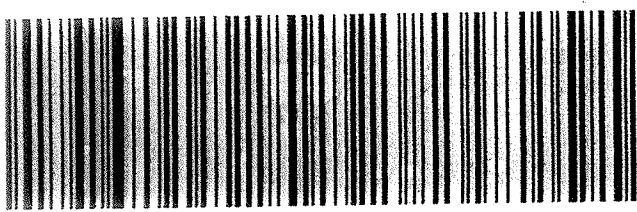


2 of 2  
 MPS# 7804 7839 7440  
 Mstr# 8064 4497 8583

0200

92 APVA

92841 CA-US SNA



4 Ex No. 200  
 Recipient's  
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 FedEx Express Saver Third business day. Saturday Delivery NOT available.  
 Special Handling  
 SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.  
 No Signature Required Package may be left without obtaining a signature for delivery.  
 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.  
 Indirect Sign If no one is available at address, someone at address may sign residential delivery.  
 Does this shipment contain dangerous goods?  
 One box must be checked.  
 No  Yes As per attached Shipper's Declaration.  Yes Shipper's Declaration not required.  Dry Ice Dry Ice, 9 UN 1845  Cargo Aircraft  
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.  
 7 Payment Bill to:  
 Sender Acct. No. in Section 1 will be billed.  Recipient  Third Party  Credit Card  
 Total Packages 2 Total Weight 117.45 lbs.  
 \*Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.  
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SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: Antea Group

DATE: 04 / 10 / 2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.2 °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  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter Checked by: 836

**CUSTODY SEAL:**  
 Cooler  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 836  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 977

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input checked="" type="checkbox"/> No relinquished date <input checked="" type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** 3 (Trip Blank Lot Number: 150331A)  
**Aqueous:**  VOA  VOA<sup>h</sup>  VOAn<sub>2</sub>  100PJ  100PJna<sub>2</sub>  125AGB  125AGBh  125AGBp  125PB  
 125PBz<sub>na</sub>  250AGB  250CGB  250CGBs  250PB  250PBn  500AGB  500AGJ  500AGJs  
 500PB  1AGB  1AGBna<sub>2</sub>  1AGBs  1PB  1PBna  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_)  TerraCores® (\_\_\_\_)  \_\_\_\_\_  
**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_  
 Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag  
 Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 977  
**s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **z<sub>na</sub>** = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 681

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SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: Antea Group

DATE: 04 / 10 / 2015

TEMPERATURE: (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)
Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.6 °C (w/ CF): 3.3 °C; [ ] Blank [x] 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
[ ] Sample(s) received at ambient temperature; placed on ice for transport by courier
Ambient Temperature: [ ] Air [ ] Filter
Checked by: 836

CUSTODY SEAL:
Cooler [ ] Present and Intact [ ] Present but Not Intact [x] Not Present [ ] N/A
Sample(s) [ ] Present and Intact [ ] Present but Not Intact [x] Not Present [ ] N/A
Checked by: 836
Checked by: 977

SAMPLE CONDITION:
Chain-of-Custody (COC) document(s) received with samples ..... [x] Yes [ ] No [ ] N/A
COC document(s) received complete ..... [ ] Yes [x] No [ ] N/A
[ ] Sampling date [ ] Sampling time [ ] Matrix [ ] Number of containers
[ ] No analysis requested [ ] Not relinquished [x] No relinquished date [x] No relinquished time
Sampler's name indicated on COC ..... [x] Yes [ ] No [ ] N/A
Sample container label(s) consistent with COC ..... [x] Yes [ ] No [ ] N/A
Sample container(s) intact and in good condition ..... [ ] Yes [x] No [ ] N/A
Proper containers for analyses requested ..... [x] Yes [ ] No [ ] N/A
Sufficient volume/mass for analyses requested ..... [x] Yes [ ] No [ ] N/A
Samples received within holding time ..... [x] Yes [ ] No [ ] N/A
Aqueous samples for certain analyses received within 15-minute holding time
[ ] pH [ ] Residual Chlorine [ ] Dissolved Sulfide [ ] Dissolved Oxygen ..... [ ] Yes [ ] No [x] N/A
Proper preservation chemical(s) noted on COC and/or sample container ..... [x] Yes [ ] No [ ] N/A
Unpreserved aqueous sample(s) received for certain analyses
[ ] Volatile Organics [ ] Total Metals [ ] Dissolved Metals
Container(s) for certain analysis free of headspace ..... [x] Yes [ ] No [ ] N/A
[ ] Volatile Organics [ ] Dissolved Gases (RSK-175) [ ] Dissolved Oxygen (SM 4500)
[ ] Carbon Dioxide (SM 4500) [ ] Ferrous Iron (SM 3500) [ ] Hydrogen Sulfide (Hach)
Tedlar™ bag(s) free of condensation ..... [ ] Yes [ ] No [x] N/A

CONTAINER TYPE: (Trip Blank Lot Number: \_\_\_\_\_)
Aqueous: [ ] VOA [x] VOAh [ ] VOAna2 [ ] 100PJ [ ] 100PJna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 125PB
[ ] 125PBzanna [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 250PB [ ] 250PBn [ ] 500AGB [x] 500AGJ [ ] 500AGJs
[ ] 500PB [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs [ ] 1PB [ ] 1PBna [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [x] Sleeve (P) [ ] EnCores® (\_\_\_\_) [ ] TerraCores® (\_\_\_\_) [ ] \_\_\_\_\_
Air: [ ] Tedlar™ [ ] Canister [ ] Sorbent Tube [ ] PUF [ ] \_\_\_\_\_ Other Matrix (\_\_\_\_): [ ] \_\_\_\_\_ [ ] \_\_\_\_\_
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
Preservative: b = buffered, f = filtered, h = HCl, n = HNO3, na = NaOH, na2 = Na2S2O3, p = H3PO4, Labeled/Checked by: 977
s = H2SO4, u = ultra-pure, zanna = Zn(CH3CO2)2 + NaOH Reviewed by: 681

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**SAMPLE ANOMALY REPORT**

DATE: 04 / 10 / 2015

**SAMPLES, CONTAINERS, AND LABELS:**

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired (list client or ECI sample ID and analysis)
- Insufficient sample amount for requested analysis (list analysis)
- Improper container(s) used (list analysis)
- Improper preservative used (list analysis)
- No preservative noted on COC or label (list analysis and notify lab)
- Sample container(s) not labeled
- Client sample label(s) illegible (list container type and analysis)
- Client sample label(s) do not match COC (comment)
  - Project information
  - Client sample ID
  - Sampling date and/or time
  - Number of container(s)
  - Requested analysis
- Sample container(s) compromised (comment)
  - Broken
  - Water present in sample container
- Air sample container(s) compromised (comment)
  - Flat
  - Very low in volume
  - Leaking (not transferred; duplicate bag submitted)
  - Leaking (transferred into ECI Tedlar™ bags\*)
  - Leaking (transferred into client's Tedlar™ bags\*)

\* Transferred at client's request.

**MISCELLANEOUS:** (Describe)

**HEADSPACE:**

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**
1	B	3			
2,4	A-C	3			

**Comments**

(-49) Received 2 Trip Blanks not on COC.  
 (ECI# 150331A)

(-5) collection time per label is 1425.  
 (-21) collection time per label is 1315  
 (-22) collection time per label is 1325.

Water is present in plastic sleeve =  
 (-15), (-22), (-24) to (-26), (-32), (-33),  
 (-38) to (-40), (-41), (-46) to (-48)

**Comments**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: \_\_\_\_\_

\*\* Record the total number of containers (i.e., vials or bottles) for the affected sample.

Reported by: 977  
 Reviewed by: 681



Is the Data Valid?  
(circle)  
Yes / No

Preservation Temperature  
(if Known): 3.2 °C

### Antea Group Lab Validation Sheet

Project/Client: COP/ELT  
 Project #: 142611117  
 Date of Validation: 6/26/15 Date of Analysis: 4/15/15 Sample Date: 4/7/15  
 Completed By: Jon F. Signature: *Jonathan F. Ruzans*  
 Analytical Lab Used and Report # (if any): Calscience 15-04-0792

1. Was the analysis the one requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they below non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m<sup>3</sup>, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?

Circle or Highlight Yes/No below

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

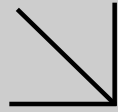
N/a

If any answer is no, explain why and what corrective action was taken:

9. Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. (Lead, Selenium, p/m-Xylene, o-Xylene, MTBE, 1,2-DCA, EDB, DIPE, TAME, Ethanol).  
 11. The MS/MSD RPD was out of control due to suspected matrix interference. (Antimony, MTBE, Ethanol) 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. (Barium, Mercury)



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**WORK ORDER NUMBER: 15-04-0994**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Antea Group

**Client Project Name:** BP #11117

**Attention:** Dennis Dettloff  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Approved for release on 04/23/2015 by:  
Richard Villafania  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 15-04-0994

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 04/14/15. They were assigned to Work Order 15-04-0994.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-14dGW</b>	<b>15-04-0994-40-D</b>	<b>04/10/15 09:20</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/15/15</b>	<b>04/17/15 17:09</b>	<b>150415B12</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		17000		500		5.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		81		68-140			
<b>SB-15GW</b>	<b>15-04-0994-45-D</b>	<b>04/10/15 10:50</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/15/15</b>	<b>04/17/15 06:08</b>	<b>150415B12</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		700		50		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		85		68-140			
<b>SB-16GW</b>	<b>15-04-0994-50-D</b>	<b>04/10/15 12:00</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/15/15</b>	<b>04/17/15 06:25</b>	<b>150415B12</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		520		50		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		87		68-140			
<b>Method Blank</b>	<b>099-15-304-1012</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/15/15</b>	<b>04/17/15 04:21</b>	<b>150415B12</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		86		68-140			

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-9d5.5</b>	<b>15-04-0994-1-A</b>	<b>04/08/15 09:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 19:10</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		80		61-145			
<b>SB-9d10</b>	<b>15-04-0994-2-A</b>	<b>04/08/15 09:05</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 19:28</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		35		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		79		61-145			
<b>SB-9d15</b>	<b>15-04-0994-3-A</b>	<b>04/08/15 09:45</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 19:45</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-9d20</b>	<b>15-04-0994-4-A</b>	<b>04/08/15 11:10</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 20:03</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		82		61-145			
<b>SB-9d27</b>	<b>15-04-0994-5-A</b>	<b>04/08/15 11:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 20:21</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		130		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		81		61-145			

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-9d30.5</b>	<b>15-04-0994-6-A</b>	<b>04/08/15 11:35</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 20:39</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		130		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		61-145			
<b>SB-9d36</b>	<b>15-04-0994-7-A</b>	<b>04/08/15 11:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 20:57</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		120		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		61-145			
<b>SB-10d5.5</b>	<b>15-04-0994-8-A</b>	<b>04/08/15 13:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 21:14</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		61-145			
<b>SB-10d10</b>	<b>15-04-0994-9-A</b>	<b>04/08/15 13:35</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 21:32</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		84		61-145			
<b>SB-10d15</b>	<b>15-04-0994-10-A</b>	<b>04/08/15 13:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 21:50</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-10d19</b>	<b>15-04-0994-11-A</b>	<b>04/08/15 13:45</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 22:26</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		82		61-145			
<b>SB-10d25</b>	<b>15-04-0994-12-A</b>	<b>04/08/15 13:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 22:42</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		86		61-145			
<b>SB-10d28</b>	<b>15-04-0994-13-A</b>	<b>04/08/15 14:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 23:01</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		14		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-10d32</b>	<b>15-04-0994-14-A</b>	<b>04/08/15 14:10</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 23:18</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		1100		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-10d35</b>	<b>15-04-0994-15-A</b>	<b>04/08/15 14:20</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 23:35</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		82		61-145			

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Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-11d5.5</b>	<b>15-04-0994-16-A</b>	<b>04/09/15 08:20</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 23:53</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		100		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		85		61-145			
<b>SB-11d8</b>	<b>15-04-0994-17-A</b>	<b>04/09/15 08:25</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 00:11</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		110		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			
<b>SB-11d16</b>	<b>15-04-0994-18-A</b>	<b>04/09/15 08:35</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 00:29</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		260		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>SB-11d18</b>	<b>15-04-0994-19-A</b>	<b>04/09/15 08:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 00:46</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-11d19</b>	<b>15-04-0994-20-A</b>	<b>04/09/15 08:42</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 01:04</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		410		5.1		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-11d20</b>	<b>15-04-0994-21-A</b>	<b>04/09/15 08:45</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 02:50</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		570		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		86		61-145			
<b>SB-11d22.5</b>	<b>15-04-0994-22-A</b>	<b>04/09/15 08:55</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 03:08</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		580		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		84		61-145			
<b>SB-11d24.5</b>	<b>15-04-0994-23-A</b>	<b>04/09/15 09:10</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 03:25</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		5.8		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		86		61-145			
<b>SB-11d25.5</b>	<b>15-04-0994-24-A</b>	<b>04/09/15 09:15</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 03:43</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		61		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-11d32</b>	<b>15-04-0994-25-A</b>	<b>04/09/15 09:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 04:01</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		9.0		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			

Return to Contents

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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-12d5.5</b>	<b>15-04-0994-26-A</b>	<b>04/09/15 11:15</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 04:19</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		250		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-12d15</b>	<b>15-04-0994-27-A</b>	<b>04/09/15 11:25</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 04:37</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		380		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			
<b>SB-12d19.5</b>	<b>15-04-0994-28-A</b>	<b>04/09/15 11:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 04:55</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		300		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-12d24</b>	<b>15-04-0994-29-A</b>	<b>04/09/15 11:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 05:13</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		910		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>SB-13d5.5</b>	<b>15-04-0994-30-A</b>	<b>04/09/15 14:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 05:31</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		250		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		95		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-13d8.5</b>	<b>15-04-0994-31-A</b>	<b>04/09/15 14:10</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 06:05</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		460		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		97		61-145			
<b>SB-13d18</b>	<b>15-04-0994-32-A</b>	<b>04/09/15 14:25</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 06:23</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-13d22.5</b>	<b>15-04-0994-33-A</b>	<b>04/09/15 14:35</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 06:41</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		13		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		99		61-145			
<b>SB-13d23.5</b>	<b>15-04-0994-34-A</b>	<b>04/09/15 14:45</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 06:59</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		150		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>SB-14d5.5</b>	<b>15-04-0994-35-A</b>	<b>04/10/15 08:25</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 07:17</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		93		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		94		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-14d10.5</b>	<b>15-04-0994-36-A</b>	<b>04/10/15 08:35</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 07:35</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-14d15</b>	<b>15-04-0994-37-A</b>	<b>04/10/15 08:40</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 18:46</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-14d21</b>	<b>15-04-0994-38-A</b>	<b>04/10/15 08:50</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 19:03</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		94		61-145			
<b>SB-14d32</b>	<b>15-04-0994-39-A</b>	<b>04/10/15 09:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 08:28</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		23		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		86		61-145			
<b>SB-15d5.5</b>	<b>15-04-0994-41-A</b>	<b>04/10/15 10:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 08:46</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		180		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-15d16</b>	<b>15-04-0994-42-A</b>	<b>04/10/15 10:15</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 10:33</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		84		61-145			
<b>SB-15d20</b>	<b>15-04-0994-43-A</b>	<b>04/10/15 10:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 10:51</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		80		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-15d24</b>	<b>15-04-0994-44-A</b>	<b>04/10/15 10:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 11:09</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-16d5.5</b>	<b>15-04-0994-46-A</b>	<b>04/10/15 11:20</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 11:27</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		270		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			
<b>SB-16d10.5</b>	<b>15-04-0994-47-A</b>	<b>04/10/15 11:25</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 11:44</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		300		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		99		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-16d16</b>	<b>15-04-0994-48-A</b>	<b>04/10/15 11:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 12:02</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		150		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-16d28</b>	<b>15-04-0994-49-A</b>	<b>04/10/15 11:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 12:20</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>Method Blank</b>	<b>099-15-422-1730</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 17:59</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		83		61-145			
<b>Method Blank</b>	<b>099-15-422-1731</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 01:39</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>Method Blank</b>	<b>099-15-422-1732</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 09:21</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-422-1735</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 17:35</b>	<b>150418B04S</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
n-Octacosane	97	61-145		

  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d5.5	15-04-0994-1-A	04/08/15 09:00	Solid	ICP 7300	04/15/15	04/16/15 18:15	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	6.70	0.765	1.02	
Barium	144	0.510	1.02	
Beryllium	0.415	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	35.9	0.255	1.02	
Cobalt	18.8	0.255	1.02	
Copper	23.0	0.510	1.02	
Lead	8.02	0.510	1.02	
Molybdenum	ND	0.255	1.02	
Nickel	50.7	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	52.4	0.255	1.02	
Zinc	41.4	1.02	1.02	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d10	15-04-0994-2-A	04/08/15 09:05	Solid	ICP 7300	04/15/15	04/16/15 18:16	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	3.19	0.754	1.01	
Barium	24.2	0.503	1.01	
Beryllium	ND	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	25.5	0.251	1.01	
Cobalt	7.62	0.251	1.01	
Copper	5.09	0.503	1.01	
Lead	5.73	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	30.2	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	22.4	0.251	1.01	
Zinc	24.8	1.01	1.01	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d15	15-04-0994-3-A	04/08/15 09:45	Solid	ICP 7300	04/15/15	04/16/15 18:18	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	5.41	0.732	0.976	
Barium	132	0.488	0.976	
Beryllium	0.466	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	26.9	0.244	0.976	
Cobalt	9.55	0.244	0.976	
Copper	14.5	0.488	0.976	
Lead	6.88	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	42.7	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	30.0	0.244	0.976	
Zinc	35.9	0.976	0.976	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d20	15-04-0994-4-A	04/08/15 11:10	Solid	ICP 7300	04/15/15	04/16/15 18:19	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	5.10	0.754	1.01	
Barium	136	0.503	1.01	
Beryllium	0.331	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	41.1	0.251	1.01	
Cobalt	9.54	0.251	1.01	
Copper	15.3	0.503	1.01	
Lead	4.33	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	36.8	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	33.7	0.251	1.01	
Zinc	41.9	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d27	15-04-0994-5-A	04/08/15 11:30	Solid	ICP 7300	04/15/15	04/16/15 18:20	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	3.17	0.743	0.990	
Barium	111	0.495	0.990	
Beryllium	0.271	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	25.3	0.248	0.990	
Cobalt	7.09	0.248	0.990	
Copper	15.9	0.495	0.990	
Lead	5.20	0.495	0.990	
Molybdenum	0.270	0.248	0.990	
Nickel	25.1	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	27.0	0.248	0.990	
Zinc	35.3	0.990	0.990	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d30.5	15-04-0994-6-A	04/08/15 11:35	Solid	ICP 7300	04/15/15	04/16/15 18:21	150415L05
Parameter		Result	RL	DF	Qualifiers		
Antimony		ND	0.714	0.952			
Arsenic		3.08	0.714	0.952			
Barium		94.6	0.476	0.952			
Beryllium		0.262	0.238	0.952			
Cadmium		ND	0.476	0.952			
Chromium		26.8	0.238	0.952			
Cobalt		7.01	0.238	0.952			
Copper		13.1	0.476	0.952			
Lead		5.80	0.476	0.952			
Molybdenum		0.450	0.238	0.952			
Nickel		25.5	0.238	0.952			
Selenium		ND	0.714	0.952			
Silver		ND	0.238	0.952			
Thallium		ND	0.714	0.952			
Vanadium		26.2	0.238	0.952			
Zinc		31.4	0.952	0.952			


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d36	15-04-0994-7-A	04/08/15 11:40	Solid	ICP 7300	04/15/15	04/16/15 18:22	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	4.02	0.728	0.971	
Barium	108	0.485	0.971	
Beryllium	0.276	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	24.5	0.243	0.971	
Cobalt	7.35	0.243	0.971	
Copper	12.1	0.485	0.971	
Lead	4.88	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	29.8	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	27.9	0.243	0.971	
Zinc	33.4	0.971	0.971	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d5.5	15-04-0994-8-A	04/08/15 13:30	Solid	ICP 7300	04/15/15	04/16/15 18:24	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	6.32	0.746	0.995	
Barium	119	0.498	0.995	
Beryllium	0.387	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	40.6	0.249	0.995	
Cobalt	13.7	0.249	0.995	
Copper	26.2	0.498	0.995	
Lead	9.13	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	48.3	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	44.7	0.249	0.995	
Zinc	49.7	0.995	0.995	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d10	15-04-0994-9-A	04/08/15 13:35	Solid	ICP 7300	04/15/15	04/16/15 18:30	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	8.53	0.750	1.00	
Barium	125	0.500	1.00	
Beryllium	0.382	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	35.6	0.250	1.00	
Cobalt	17.5	0.250	1.00	
Copper	25.5	0.500	1.00	
Lead	11.9	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	45.4	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	48.7	0.250	1.00	
Zinc	60.4	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d15	15-04-0994-10-A	04/08/15 13:40	Solid	ICP 7300	04/15/15	04/16/15 18:31	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	7.48	0.743	0.990	
Barium	137	0.495	0.990	
Beryllium	0.325	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	30.1	0.248	0.990	
Cobalt	10.2	0.248	0.990	
Copper	19.5	0.495	0.990	
Lead	6.51	0.495	0.990	
Molybdenum	0.313	0.248	0.990	
Nickel	41.9	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	38.7	0.248	0.990	
Zinc	42.8	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d19	15-04-0994-11-A	04/08/15 13:45	Solid	ICP 7300	04/15/15	04/16/15 18:32	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Arsenic	6.56	0.785	1.05	
Barium	132	0.524	1.05	
Beryllium	0.296	0.262	1.05	
Cadmium	ND	0.524	1.05	
Chromium	34.8	0.262	1.05	
Cobalt	10.2	0.262	1.05	
Copper	22.4	0.524	1.05	
Lead	4.66	0.524	1.05	
Molybdenum	ND	0.262	1.05	
Nickel	38.2	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	30.1	0.262	1.05	
Zinc	49.8	1.05	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d25	15-04-0994-12-A	04/08/15 13:50	Solid	ICP 7300	04/15/15	04/16/15 18:34	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	6.74	0.728	0.971	
Barium	127	0.485	0.971	
Beryllium	0.317	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	31.2	0.243	0.971	
Cobalt	9.32	0.243	0.971	
Copper	21.1	0.485	0.971	
Lead	17.8	0.485	0.971	
Molybdenum	1.00	0.243	0.971	
Nickel	33.4	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	38.7	0.243	0.971	
Zinc	55.7	0.971	0.971	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d28	15-04-0994-13-A	04/08/15 14:00	Solid	ICP 7300	04/15/15	04/16/15 18:35	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	4.25	0.781	1.04	
Barium	186	0.521	1.04	
Beryllium	0.297	0.260	1.04	
Cadmium	ND	0.521	1.04	
Chromium	18.8	0.260	1.04	
Cobalt	5.74	0.260	1.04	
Copper	12.7	0.521	1.04	
Lead	4.86	0.521	1.04	
Molybdenum	ND	0.260	1.04	
Nickel	25.7	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	23.4	0.260	1.04	
Zinc	32.6	1.04	1.04	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d32	15-04-0994-14-A	04/08/15 14:10	Solid	ICP 7300	04/15/15	04/16/15 18:36	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	3.66	0.769	1.03	
Barium	96.4	0.513	1.03	
Beryllium	ND	0.256	1.03	
Cadmium	ND	0.513	1.03	
Chromium	29.3	0.256	1.03	
Cobalt	8.88	0.256	1.03	
Copper	12.4	0.513	1.03	
Lead	5.33	0.513	1.03	
Molybdenum	0.296	0.256	1.03	
Nickel	31.7	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	26.7	0.256	1.03	
Zinc	34.2	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d35	15-04-0994-15-A	04/08/15 14:20	Solid	ICP 7300	04/15/15	04/16/15 18:37	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Arsenic	0.927	0.718	0.957	
Barium	56.9	0.478	0.957	
Beryllium	0.333	0.239	0.957	
Cadmium	ND	0.478	0.957	
Chromium	24.9	0.239	0.957	
Cobalt	2.33	0.239	0.957	
Copper	7.91	0.478	0.957	
Lead	4.12	0.478	0.957	
Molybdenum	ND	0.239	0.957	
Nickel	21.2	0.239	0.957	
Selenium	ND	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	7.77	0.239	0.957	
Zinc	23.3	0.957	0.957	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d5.5	15-04-0994-16-A	04/09/15 08:20	Solid	ICP 7300	04/15/15	04/16/15 18:39	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	5.53	0.765	1.02	
Barium	123	0.510	1.02	
Beryllium	0.291	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	26.8	0.255	1.02	
Cobalt	7.06	0.255	1.02	
Copper	21.2	0.510	1.02	
Lead	41.0	0.510	1.02	
Molybdenum	0.574	0.255	1.02	
Nickel	40.7	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	27.8	0.255	1.02	
Zinc	53.0	1.02	1.02	



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d8	15-04-0994-17-A	04/09/15 08:25	Solid	ICP 7300	04/15/15	04/16/15 18:40	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Arsenic	4.08	0.789	1.05	
Barium	93.5	0.526	1.05	
Beryllium	ND	0.263	1.05	
Cadmium	ND	0.526	1.05	
Chromium	19.6	0.263	1.05	
Cobalt	5.53	0.263	1.05	
Copper	21.1	0.526	1.05	
Lead	35.8	0.526	1.05	
Molybdenum	0.410	0.263	1.05	
Nickel	32.2	0.263	1.05	
Selenium	ND	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	20.1	0.263	1.05	
Zinc	53.5	1.05	1.05	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d16	15-04-0994-18-A	04/09/15 08:35	Solid	ICP 7300	04/15/15	04/16/15 18:41	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	4.80	0.728	0.971	
Barium	216	0.485	0.971	
Beryllium	0.277	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	32.3	0.243	0.971	
Cobalt	7.72	0.243	0.971	
Copper	30.2	0.485	0.971	
Lead	17.0	0.485	0.971	
Molybdenum	0.925	0.243	0.971	
Nickel	35.3	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	33.0	0.243	0.971	
Zinc	65.9	0.971	0.971	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d18	15-04-0994-19-A	04/09/15 08:40	Solid	ICP 7300	04/15/15	04/16/15 18:47	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	ND	0.743	0.990	
Barium	12.0	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	7.10	0.248	0.990	
Cobalt	3.22	0.248	0.990	
Copper	3.25	0.495	0.990	
Lead	1.50	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	7.59	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	6.06	0.248	0.990	
Zinc	9.62	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d19	15-04-0994-20-A	04/09/15 08:42	Solid	ICP 7300	04/15/15	04/16/15 18:49	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	7.61	0.739	0.985	
Barium	113	0.493	0.985	
Beryllium	0.346	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	29.2	0.246	0.985	
Cobalt	8.08	0.246	0.985	
Copper	18.4	0.493	0.985	
Lead	8.77	0.493	0.985	
Molybdenum	0.849	0.246	0.985	
Nickel	37.3	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	35.1	0.246	0.985	
Zinc	41.1	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d20	15-04-0994-21-A	04/09/15 08:45	Solid	ICP 7300	04/15/15	04/16/15 18:50	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	6.73	0.735	0.980	
Barium	112	0.490	0.980	
Beryllium	0.250	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	20.3	0.245	0.980	
Cobalt	6.27	0.245	0.980	
Copper	17.7	0.490	0.980	
Lead	5.10	0.490	0.980	
Molybdenum	0.504	0.245	0.980	
Nickel	23.3	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	24.7	0.245	0.980	
Zinc	32.7	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d22.5	15-04-0994-22-A	04/09/15 08:55	Solid	ICP 7300	04/15/15	04/16/15 18:51	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	6.62	0.754	1.01	
Barium	311	0.503	1.01	
Beryllium	0.338	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	30.5	0.251	1.01	
Cobalt	8.74	0.251	1.01	
Copper	19.2	0.503	1.01	
Lead	5.72	0.503	1.01	
Molybdenum	0.381	0.251	1.01	
Nickel	32.5	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	34.2	0.251	1.01	
Zinc	43.5	1.01	1.01	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d24.5	15-04-0994-23-A	04/09/15 09:10	Solid	ICP 7300	04/15/15	04/16/15 18:52	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	2.96	0.758	1.01	
Barium	65.2	0.505	1.01	
Beryllium	ND	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	19.8	0.253	1.01	
Cobalt	5.98	0.253	1.01	
Copper	11.8	0.505	1.01	
Lead	5.50	0.505	1.01	
Molybdenum	0.370	0.253	1.01	
Nickel	29.9	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	17.9	0.253	1.01	
Zinc	29.0	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d25.5	15-04-0994-24-A	04/09/15 09:15	Solid	ICP 7300	04/15/15	04/16/15 18:54	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	2.38	0.743	0.990	
Barium	58.8	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	16.7	0.248	0.990	
Cobalt	4.86	0.248	0.990	
Copper	11.6	0.495	0.990	
Lead	4.82	0.495	0.990	
Molybdenum	0.326	0.248	0.990	
Nickel	30.9	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	14.0	0.248	0.990	
Zinc	30.9	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d32	15-04-0994-25-A	04/09/15 09:40	Solid	ICP 7300	04/15/15	04/16/15 18:55	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	7.42	0.765	1.02	
Barium	124	0.510	1.02	
Beryllium	0.346	0.255	1.02	
Cadmium	0.606	0.510	1.02	
Chromium	50.9	0.255	1.02	
Cobalt	11.8	0.255	1.02	
Copper	22.5	0.510	1.02	
Lead	5.05	0.510	1.02	
Molybdenum	ND	0.255	1.02	
Nickel	58.4	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	55.0	0.255	1.02	
Zinc	44.5	1.02	1.02	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d5.5	15-04-0994-26-A	04/09/15 11:15	Solid	ICP 7300	04/15/15	04/16/15 18:56	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	6.86	0.758	1.01	
Barium	138	0.505	1.01	
Beryllium	0.336	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	41.2	0.253	1.01	
Cobalt	8.29	0.253	1.01	
Copper	26.8	0.505	1.01	
Lead	57.0	0.505	1.01	
Molybdenum	0.808	0.253	1.01	
Nickel	67.0	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	32.8	0.253	1.01	
Zinc	78.7	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d15	15-04-0994-27-A	04/09/15 11:25	Solid	ICP 7300	04/15/15	04/16/15 18:57	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	4.16	0.754	1.01	
Barium	168	0.503	1.01	
Beryllium	0.298	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	28.9	0.251	1.01	
Cobalt	6.87	0.251	1.01	
Copper	28.9	0.503	1.01	
Lead	22.1	0.503	1.01	
Molybdenum	0.890	0.251	1.01	
Nickel	32.8	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	36.3	0.251	1.01	
Zinc	80.0	1.01	1.01	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d19.5	15-04-0994-28-A	04/09/15 11:30	Solid	ICP 7300	04/15/15	04/16/15 18:59	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	4.47	0.758	1.01	
Barium	125	0.505	1.01	
Beryllium	0.281	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	22.4	0.253	1.01	
Cobalt	8.19	0.253	1.01	
Copper	14.6	0.505	1.01	
Lead	6.79	0.505	1.01	
Molybdenum	0.483	0.253	1.01	
Nickel	31.1	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	28.5	0.253	1.01	
Zinc	34.9	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d24	15-04-0994-29-A	04/09/15 11:40	Solid	ICP 7300	04/15/15	04/16/15 19:05	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	6.11	0.769	1.03	
Barium	134	0.513	1.03	
Beryllium	0.296	0.256	1.03	
Cadmium	ND	0.513	1.03	
Chromium	24.1	0.256	1.03	
Cobalt	8.67	0.256	1.03	
Copper	18.1	0.513	1.03	
Lead	6.31	0.513	1.03	
Molybdenum	0.417	0.256	1.03	
Nickel	33.8	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	31.8	0.256	1.03	
Zinc	46.1	1.03	1.03	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d5.5	15-04-0994-30-A	04/09/15 14:00	Solid	ICP 7300	04/15/15	04/16/15 19:06	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	7.81	0.758	1.01	
Barium	142	0.505	1.01	
Beryllium	0.363	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	32.5	0.253	1.01	
Cobalt	8.63	0.253	1.01	
Copper	31.6	0.505	1.01	
Lead	69.3	0.505	1.01	
Molybdenum	0.721	0.253	1.01	
Nickel	48.8	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	31.8	0.253	1.01	
Zinc	71.1	1.01	1.01	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d8.5	15-04-0994-31-A	04/09/15 14:10	Solid	ICP 7300	04/15/15	04/16/15 19:07	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Arsenic	7.07	0.785	1.05	
Barium	122	0.524	1.05	
Beryllium	0.298	0.262	1.05	
Cadmium	ND	0.524	1.05	
Chromium	30.4	0.262	1.05	
Cobalt	9.12	0.262	1.05	
Copper	29.5	0.524	1.05	
Lead	36.5	0.524	1.05	
Molybdenum	0.774	0.262	1.05	
Nickel	51.6	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	34.6	0.262	1.05	
Zinc	76.1	1.05	1.05	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d18	15-04-0994-32-A	04/09/15 14:25	Solid	ICP 7300	04/15/15	04/16/15 19:09	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	5.55	0.754	1.01	
Barium	103	0.503	1.01	
Beryllium	0.314	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	25.3	0.251	1.01	
Cobalt	8.68	0.251	1.01	
Copper	15.4	0.503	1.01	
Lead	7.26	0.503	1.01	
Molybdenum	0.309	0.251	1.01	
Nickel	30.2	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	33.1	0.251	1.01	
Zinc	40.8	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d22.5	15-04-0994-33-A	04/09/15 14:35	Solid	ICP 7300	04/15/15	04/16/15 19:10	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	3.58	0.735	0.980	
Barium	98.6	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	22.5	0.245	0.980	
Cobalt	8.23	0.245	0.980	
Copper	12.9	0.490	0.980	
Lead	4.25	0.490	0.980	
Molybdenum	0.332	0.245	0.980	
Nickel	28.7	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	22.6	0.245	0.980	
Zinc	29.0	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d23.5	15-04-0994-34-A	04/09/15 14:45	Solid	ICP 7300	04/15/15	04/16/15 19:11	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	4.93	0.728	0.971	
Barium	121	0.485	0.971	
Beryllium	0.284	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	29.4	0.243	0.971	
Cobalt	11.1	0.243	0.971	
Copper	16.7	0.485	0.971	
Lead	5.30	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	41.1	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	34.9	0.243	0.971	
Zinc	37.1	0.971	0.971	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d5.5	15-04-0994-35-A	04/10/15 08:25	Solid	ICP 7300	04/15/15	04/16/15 19:13	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	3.41	0.761	1.02	
Barium	218	0.508	1.02	
Beryllium	ND	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	22.6	0.254	1.02	
Cobalt	6.00	0.254	1.02	
Copper	24.0	0.508	1.02	
Lead	31.2	0.508	1.02	
Molybdenum	0.706	0.254	1.02	
Nickel	37.9	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	21.0	0.254	1.02	
Zinc	44.9	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d10.5	15-04-0994-36-A	04/10/15 08:35	Solid	ICP 7300	04/15/15	04/16/15 19:14	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	7.34	0.746	0.995	
Barium	177	0.498	0.995	
Beryllium	0.403	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	44.1	0.249	0.995	
Cobalt	19.1	0.249	0.995	
Copper	29.0	0.498	0.995	
Lead	9.39	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	58.4	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	49.4	0.249	0.995	
Zinc	50.2	0.995	0.995	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d15	15-04-0994-37-A	04/10/15 08:40	Solid	ICP 7300	04/15/15	04/16/15 19:15	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	5.16	0.721	0.962	
Barium	162	0.481	0.962	
Beryllium	0.400	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	30.1	0.240	0.962	
Cobalt	9.81	0.240	0.962	
Copper	18.9	0.481	0.962	
Lead	6.76	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	42.6	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	39.4	0.240	0.962	
Zinc	51.3	0.962	0.962	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d21	15-04-0994-38-A	04/10/15 08:50	Solid	ICP 7300	04/15/15	04/16/15 19:16	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Arsenic	4.48	0.718	0.957	
Barium	90.9	0.478	0.957	
Beryllium	0.266	0.239	0.957	
Cadmium	ND	0.478	0.957	
Chromium	20.9	0.239	0.957	
Cobalt	8.23	0.239	0.957	
Copper	19.5	0.478	0.957	
Lead	4.58	0.478	0.957	
Molybdenum	0.576	0.239	0.957	
Nickel	23.2	0.239	0.957	
Selenium	ND	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	30.3	0.239	0.957	
Zinc	40.4	0.957	0.957	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d32	15-04-0994-39-A	04/10/15 09:00	Solid	ICP 7300	04/15/15	04/16/15 19:22	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	3.15	0.728	0.971	
Barium	79.4	0.485	0.971	
Beryllium	ND	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	18.3	0.243	0.971	
Cobalt	9.45	0.243	0.971	
Copper	9.11	0.485	0.971	
Lead	4.47	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	25.4	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	20.2	0.243	0.971	
Zinc	26.8	0.971	0.971	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d5.5	15-04-0994-41-A	04/10/15 10:00	Solid	ICP 7300	04/15/15	04/16/15 19:24	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	4.14	0.750	1.00	
Barium	95.7	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	31.6	0.250	1.00	
Cobalt	7.69	0.250	1.00	
Copper	28.9	0.500	1.00	
Lead	67.5	0.500	1.00	
Molybdenum	0.576	0.250	1.00	
Nickel	56.8	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	25.3	0.250	1.00	
Zinc	56.1	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d16	15-04-0994-42-A	04/10/15 10:15	Solid	ICP 7300	04/15/15	04/16/15 19:25	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	4.43	0.732	0.976	
Barium	217	0.488	0.976	
Beryllium	0.362	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	33.1	0.244	0.976	
Cobalt	36.5	0.244	0.976	
Copper	45.4	0.488	0.976	
Lead	6.98	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	55.8	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	101	0.244	0.976	
Zinc	30.8	0.976	0.976	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d20	15-04-0994-43-A	04/10/15 10:30	Solid	ICP 7300	04/15/15	04/16/15 19:26	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	3.20	0.754	1.01	
Barium	75.6	0.503	1.01	
Beryllium	ND	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	18.5	0.251	1.01	
Cobalt	7.11	0.251	1.01	
Copper	11.7	0.503	1.01	
Lead	3.88	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	27.0	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	18.1	0.251	1.01	
Zinc	31.9	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d24	15-04-0994-44-A	04/10/15 10:40	Solid	ICP 7300	04/15/15	04/16/15 19:28	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	6.74	0.735	0.980	
Barium	149	0.490	0.980	
Beryllium	0.326	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	34.2	0.245	0.980	
Cobalt	14.1	0.245	0.980	
Copper	18.4	0.490	0.980	
Lead	5.09	0.490	0.980	
Molybdenum	0.346	0.245	0.980	
Nickel	49.0	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	44.2	0.245	0.980	
Zinc	41.4	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d5.5	15-04-0994-46-A	04/10/15 11:20	Solid	ICP 7300	04/15/15	04/16/15 19:29	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	7.96	0.758	1.01	
Barium	189	0.505	1.01	
Beryllium	0.417	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	42.0	0.253	1.01	
Cobalt	10.8	0.253	1.01	
Copper	46.5	0.505	1.01	
Lead	111	0.505	1.01	
Molybdenum	0.910	0.253	1.01	
Nickel	50.9	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	46.5	0.253	1.01	
Zinc	91.7	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d10.5	15-04-0994-47-A	04/10/15 11:25	Solid	ICP 7300	04/15/15	04/16/15 19:30	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	3.35	0.750	1.00	
Barium	98.1	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	18.3	0.250	1.00	
Cobalt	4.94	0.250	1.00	
Copper	23.9	0.500	1.00	
Lead	51.9	0.500	1.00	
Molybdenum	0.558	0.250	1.00	
Nickel	22.0	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	19.4	0.250	1.00	
Zinc	51.7	1.00	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d16	15-04-0994-48-A	04/10/15 11:30	Solid	ICP 7300	04/15/15	04/16/15 19:31	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	4.91	0.758	1.01	
Barium	155	0.505	1.01	
Beryllium	0.282	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	25.3	0.253	1.01	
Cobalt	6.26	0.253	1.01	
Copper	38.6	0.505	1.01	
Lead	21.5	0.505	1.01	
Molybdenum	0.842	0.253	1.01	
Nickel	29.5	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	28.7	0.253	1.01	
Zinc	56.3	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d28	15-04-0994-49-A	04/10/15 11:50	Solid	ICP 7300	04/15/15	04/16/15 19:32	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	4.07	0.725	0.966	
Barium	101	0.483	0.966	
Beryllium	0.286	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	24.4	0.242	0.966	
Cobalt	7.29	0.242	0.966	
Copper	12.2	0.483	0.966	
Lead	4.12	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	33.2	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	24.7	0.242	0.966	
Zinc	34.3	0.966	0.966	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20818	N/A	Solid	ICP 7300	04/15/15	04/16/15 17:52	150415L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20822	N/A	Solid	ICP 7300	04/15/15	04/21/15 16:45	150415L05

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20824	N/A	Solid	ICP 7300	04/15/15	04/16/15 17:56	150415L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-9d5.5</b>	<b>15-04-0994-1-A</b>	<b>04/08/15 09:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:54</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0951		0.0833		1.00	
<b>SB-9d10</b>	<b>15-04-0994-2-A</b>	<b>04/08/15 09:05</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:56</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-9d15</b>	<b>15-04-0994-3-A</b>	<b>04/08/15 09:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:59</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-9d20</b>	<b>15-04-0994-4-A</b>	<b>04/08/15 11:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:01</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.145		0.0794		1.00	
<b>SB-9d27</b>	<b>15-04-0994-5-A</b>	<b>04/08/15 11:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:03</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-9d30.5</b>	<b>15-04-0994-6-A</b>	<b>04/08/15 11:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:05</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.113		0.0847		1.00	
<b>SB-9d36</b>	<b>15-04-0994-7-A</b>	<b>04/08/15 11:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:08</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.102		0.0862		1.00	
<b>SB-10d5.5</b>	<b>15-04-0994-8-A</b>	<b>04/08/15 13:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:10</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0857		0.0820		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-10d10</b>	<b>15-04-0994-9-A</b>	<b>04/08/15 13:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:16</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0857		0.0806		1.00	
<b>SB-10d15</b>	<b>15-04-0994-10-A</b>	<b>04/08/15 13:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:19</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-10d19</b>	<b>15-04-0994-11-A</b>	<b>04/08/15 13:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:21</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-10d25</b>	<b>15-04-0994-12-A</b>	<b>04/08/15 13:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:23</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.117		0.0794		1.00	
<b>SB-10d28</b>	<b>15-04-0994-13-A</b>	<b>04/08/15 14:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:25</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0861		0.0820		1.00	
<b>SB-10d32</b>	<b>15-04-0994-14-A</b>	<b>04/08/15 14:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:27</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0953		0.0847		1.00	
<b>SB-10d35</b>	<b>15-04-0994-15-A</b>	<b>04/08/15 14:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:30</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-11d5.5</b>	<b>15-04-0994-16-A</b>	<b>04/09/15 08:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:32</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-11d8</b>	<b>15-04-0994-17-A</b>	<b>04/09/15 08:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:34</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0867		0.0794		1.00	
<b>SB-11d16</b>	<b>15-04-0994-18-A</b>	<b>04/09/15 08:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 16:36</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-11d18</b>	<b>15-04-0994-19-A</b>	<b>04/09/15 08:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:32</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-11d19</b>	<b>15-04-0994-20-A</b>	<b>04/09/15 08:42</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:34</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.142		0.0862		1.00	
<b>SB-11d20</b>	<b>15-04-0994-21-A</b>	<b>04/09/15 08:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:37</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-11d22.5</b>	<b>15-04-0994-22-A</b>	<b>04/09/15 08:55</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:39</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.158		0.0847		1.00	
<b>SB-11d24.5</b>	<b>15-04-0994-23-A</b>	<b>04/09/15 09:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:41</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.158		0.0847		1.00	
<b>SB-11d25.5</b>	<b>15-04-0994-24-A</b>	<b>04/09/15 09:15</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:43</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-11d32</b>	<b>15-04-0994-25-A</b>	<b>04/09/15 09:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:46</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-12d5.5</b>	<b>15-04-0994-26-A</b>	<b>04/09/15 11:15</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:48</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-12d15</b>	<b>15-04-0994-27-A</b>	<b>04/09/15 11:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:50</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-12d19.5</b>	<b>15-04-0994-28-A</b>	<b>04/09/15 11:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:52</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-12d24</b>	<b>15-04-0994-29-A</b>	<b>04/09/15 11:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 17:59</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.136		0.0862		1.00	
<b>SB-13d5.5</b>	<b>15-04-0994-30-A</b>	<b>04/09/15 14:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:01</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-13d8.5</b>	<b>15-04-0994-31-A</b>	<b>04/09/15 14:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:03</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0946		0.0847		1.00	
<b>SB-13d18</b>	<b>15-04-0994-32-A</b>	<b>04/09/15 14:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:06</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.109		0.0794		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-13d22.5</b>	<b>15-04-0994-33-A</b>	<b>04/09/15 14:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:08</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-13d23.5</b>	<b>15-04-0994-34-A</b>	<b>04/09/15 14:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:10</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.107		0.0806		1.00	
<b>SB-14d5.5</b>	<b>15-04-0994-35-A</b>	<b>04/10/15 08:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:12</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-14d10.5</b>	<b>15-04-0994-36-A</b>	<b>04/10/15 08:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:15</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.112		0.0806		1.00	
<b>SB-14d15</b>	<b>15-04-0994-37-A</b>	<b>04/10/15 08:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:17</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-14d21</b>	<b>15-04-0994-38-A</b>	<b>04/10/15 08:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:19</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-14d32</b>	<b>15-04-0994-39-A</b>	<b>04/10/15 09:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:26</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-15d5.5</b>	<b>15-04-0994-41-A</b>	<b>04/10/15 10:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:28</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.640		0.0862		1.00	

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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-15d16</b>	<b>15-04-0994-42-A</b>	<b>04/10/15 10:15</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:30</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.204		0.0806		1.00	
<b>SB-15d20</b>	<b>15-04-0994-43-A</b>	<b>04/10/15 10:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:32</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-15d24</b>	<b>15-04-0994-44-A</b>	<b>04/10/15 10:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:35</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-16d5.5</b>	<b>15-04-0994-46-A</b>	<b>04/10/15 11:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:37</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-16d10.5</b>	<b>15-04-0994-47-A</b>	<b>04/10/15 11:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:39</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-16d16</b>	<b>15-04-0994-48-A</b>	<b>04/10/15 11:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:41</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-16d28</b>	<b>15-04-0994-49-A</b>	<b>04/10/15 11:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 18:43</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>Method Blank</b>	<b>099-16-272-1168</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:23</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-16-272-1169</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:25</b>	<b>150417L02</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.0833	1.00	

<b>Method Blank</b>	<b>099-16-272-1170</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:27</b>	<b>150417L03</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.0833	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14dGW	15-04-0994-40-B	04/10/15 09:20	Aqueous	GC/MS OO	04/20/15	04/20/15 20:25	150420L026

Parameter	Result	RL	DF	Qualifiers
Benzene	2800	25	50.0	
1,2-Dibromoethane	ND	50	50.0	
1,2-Dichloroethane	ND	25	50.0	
Ethylbenzene	2900	50	50.0	
Toluene	2800	50	50.0	
p/m-Xylene	5500	50	50.0	
o-Xylene	2100	50	50.0	
Methyl-t-Butyl Ether (MTBE)	230	50	50.0	
Tert-Butyl Alcohol (TBA)	ND	500	50.0	
Diisopropyl Ether (DIPE)	ND	100	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	100	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	100	50.0	
Ethanol	ND	5000	50.0	
TPPH	45000	2500	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	99	80-120	
Toluene-d8-TPPH	96	88-112	
1,4-Bromofluorobenzene	99	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15GW	15-04-0994-45-A	04/10/15 10:50	Aqueous	GC/MS O	04/19/15	04/19/15 20:06	150419L024

Parameter	Result	RL	DF	Qualifiers
Benzene	62	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	86	1.0	1.00	
Toluene	180	1.0	1.00	
p/m-Xylene	290	1.0	1.00	
o-Xylene	150	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	63	1.0	1.00	
Tert-Butyl Alcohol (TBA)	75	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	2.3	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	3600	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	78-126		
1,2-Dichloroethane-d4	104	75-135		
Toluene-d8	99	80-120		
Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	99	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16GW	15-04-0994-50-A	04/10/15 12:00	Aqueous	GC/MS O	04/19/15	04/19/15 20:35	150419L024

Parameter	Result	RL	DF	Qualifiers
Benzene	2.4	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	1.4	1.0	1.00	
Toluene	1.4	1.0	1.00	
p/m-Xylene	3.6	1.0	1.00	
o-Xylene	3.0	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	14	1.0	1.00	
Tert-Butyl Alcohol (TBA)	47	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	150	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	108	78-126		
1,2-Dichloroethane-d4	108	75-135		
Toluene-d8	96	80-120		
Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	96	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-767-6874</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC/MS O</b>	<b>04/19/15</b>	<b>04/19/15 16:12</b>	<b>150419L024</b>

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	112	75-135	
Toluene-d8	96	80-120	
Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	94	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6875	N/A	Aqueous	GC/MS OO	04/20/15	04/20/15 15:39	150420L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	96	88-112	
1,4-Bromofluorobenzene	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d5.5	15-04-0994-1-A	04/08/15 09:00	Solid	GC/MS R	04/14/15	04/15/15 20:54	150415L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	109	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	108	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d10	15-04-0994-2-A	04/08/15 09:05	Solid	GC/MS R	04/14/15	04/16/15 03:53	150415L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	95	63-141		
1,2-Dichloroethane-d4	86	62-146		
Toluene-d8	97	80-120		
1,4-Bromofluorobenzene	93	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d15	15-04-0994-3-A	04/08/15 09:45	Solid	GC/MS OO	04/14/15	04/19/15 17:55	150419L016

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	100	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d20	15-04-0994-4-A	04/08/15 11:10	Solid	GC/MS OO	04/14/15	04/16/15 02:46	150415L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d27	15-04-0994-5-A	04/08/15 11:30	Solid	GC/MS OO	04/14/15	04/19/15 18:24	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	360000	50000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	95	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d30.5	15-04-0994-6-A	04/08/15 11:35	Solid	GC/MS OO	04/14/15	04/19/15 18:53	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	980	100	
1,2-Dibromoethane	ND	980	100	
1,2-Dichloroethane	ND	980	100	
Ethylbenzene	ND	980	100	
Toluene	ND	980	100	
p/m-Xylene	ND	980	100	
o-Xylene	ND	980	100	
Methyl-t-Butyl Ether (MTBE)	ND	980	100	
Tert-Butyl Alcohol (TBA)	ND	9800	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	98000	100	
TPPH	640000	98000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	97	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	99	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-9d36	15-04-0994-7-A	04/08/15 11:40	Solid	GC/MS OO	04/14/15	04/19/15 19:21	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	890	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	2100	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	990	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	990	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	990	50.0	
Ethanol	ND	50000	50.0	
TPPH	170000	50000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	96	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d5.5	15-04-0994-8-A	04/08/15 13:30	Solid	GC/MS OO	04/14/15	04/19/15 19:50	150419L016

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	105	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d10	15-04-0994-9-A	04/08/15 13:35	Solid	GC/MS OO	04/14/15	04/19/15 20:18	150419L016

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d15	15-04-0994-10-A	04/08/15 13:40	Solid	GC/MS OO	04/14/15	04/19/15 20:47	150419L016

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	103	63-141		
1,2-Dichloroethane-d4	105	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d19	15-04-0994-11-A	04/08/15 13:45	Solid	GC/MS OO	04/14/15	04/19/15 21:16	150419L016

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	27	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	34	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	960	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d25	15-04-0994-12-A	04/08/15 13:50	Solid	GC/MS OO	04/14/15	04/19/15 21:44	150419L016

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	52	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	67	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	6.9	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	1700	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d28	15-04-0994-13-A	04/08/15 14:00	Solid	GC/MS OO	04/14/15	04/19/15 22:13	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	1200	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	4800	500	50.0	
o-Xylene	1300	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	110000	50000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	94	63-141		
1,2-Dichloroethane-d4	96	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d32	15-04-0994-14-A	04/08/15 14:10	Solid	GC/MS O	04/14/15	04/20/15 23:12	150420L029

Parameter	Result	RL	DF	Qualifiers
Benzene	7000	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	610	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	990	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	990	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	990	50.0	
Ethanol	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	96	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	112	60-132	
Toluene-d8-TPPH	102	87-111	

SB-10d32	15-04-0994-14-A	04/08/15 14:10	Solid	GC/MS O	04/14/15	04/21/15 23:36	150421L057
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Parameter	Result	RL	DF	Qualifiers
Ethylbenzene	33000	5000	500	
Toluene	59000	5000	500	
p/m-Xylene	150000	5000	500	
o-Xylene	56000	5000	500	
TPPH	2500000	500000	500	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	97	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	103	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-10d35	15-04-0994-15-A	04/08/15 14:20	Solid	GC/MS OO	04/14/15	04/15/15 22:29	150415L057

Parameter	Result	RL	DF	Qualifiers
Benzene	14	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	8.5	5.0	1.00	
Toluene	13	5.0	1.00	
p/m-Xylene	31	5.0	1.00	
o-Xylene	13	5.0	1.00	
Tert-Butyl Alcohol (TBA)	320	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	710	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	98	87-111	

SB-10d35	15-04-0994-15-A	04/08/15 14:20	Solid	GC/MS XX	04/14/15	04/23/15 11:17	150422L035
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Parameter	Result	RL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	850	500	50.0	BU

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	108	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	94	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d5.5	15-04-0994-16-A	04/09/15 08:20	Solid	GC/MS OO	04/14/15	04/20/15 05:48	150419L026

Comment(s): - The reporting limit is elevated resulting from matrix interference.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	ND	510	50.0	
Naphthalene	ND	5100	50.0	
Toluene	ND	510	50.0	
p/m-Xylene	ND	510	50.0	
o-Xylene	ND	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	ND	51000	50.0	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	93	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d8	15-04-0994-17-A	04/09/15 08:25	Solid	GC/MS OO	04/14/15	04/20/15 06:17	150419L031

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.8	1.00	
1,2-Dibromoethane	ND	4.8	1.00	
1,2-Dichloroethane	ND	4.8	1.00	
Ethylbenzene	ND	4.8	1.00	
Naphthalene	ND	48	1.00	
Toluene	13	4.8	1.00	
p/m-Xylene	9.8	4.8	1.00	
o-Xylene	ND	4.8	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.8	1.00	
Tert-Butyl Alcohol (TBA)	ND	48	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	480	1.00	
TPPH	ND	480	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	36	63-141	2,6
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d16	15-04-0994-18-A	04/09/15 08:35	Solid	GC/MS O	04/21/15	04/22/15 02:31	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	13	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	870	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	54	63-141	2,6	
1,2-Dichloroethane-d4	102	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d18	15-04-0994-19-A	04/09/15 08:40	Solid	GC/MS OO	04/14/15	04/20/15 07:14	150419L031

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	90	63-141		
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d19	15-04-0994-20-A	04/09/15 08:42	Solid	GC/MS OO	04/14/15	04/20/15 07:42	150419L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5000	500	
1,2-Dibromoethane	ND	5000	500	
1,2-Dichloroethane	ND	5000	500	
Ethylbenzene	8700	5000	500	
Toluene	ND	5000	500	
p/m-Xylene	43000	5000	500	
o-Xylene	11000	5000	500	
Methyl-t-Butyl Ether (MTBE)	ND	5000	500	
Tert-Butyl Alcohol (TBA)	ND	50000	500	
Diisopropyl Ether (DIPE)	ND	9900	500	
Ethyl-t-Butyl Ether (ETBE)	ND	9900	500	
Tert-Amyl-Methyl Ether (TAME)	ND	9900	500	
Ethanol	ND	500000	500	
TPPH	650000	500000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	96	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d20	15-04-0994-21-A	04/09/15 08:45	Solid	GC/MS OO	04/14/15	04/20/15 08:11	150419L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	1900	510	50.0	
Toluene	690	510	50.0	
p/m-Xylene	8600	510	50.0	
o-Xylene	3000	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	110000	51000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d22.5	15-04-0994-22-A	04/09/15 08:55	Solid	GC/MS OO	04/14/15	04/20/15 08:39	150419L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5000	500	
1,2-Dibromoethane	ND	5000	500	
1,2-Dichloroethane	ND	5000	500	
Ethylbenzene	24000	5000	500	
Toluene	12000	5000	500	
p/m-Xylene	110000	5000	500	
o-Xylene	39000	5000	500	
Methyl-t-Butyl Ether (MTBE)	ND	5000	500	
Tert-Butyl Alcohol (TBA)	ND	50000	500	
Diisopropyl Ether (DIPE)	ND	10000	500	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	500	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	500	
Ethanol	ND	500000	500	
TPPH	1500000	500000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d24.5	15-04-0994-23-A	04/09/15 09:10	Solid	GC/MS OO	04/14/15	04/20/15 03:55	150419L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	520	50.0	
1,2-Dibromoethane	ND	520	50.0	
1,2-Dichloroethane	ND	520	50.0	
Ethylbenzene	700	520	50.0	
Toluene	ND	520	50.0	
p/m-Xylene	3500	520	50.0	
o-Xylene	1300	520	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	520	50.0	
Tert-Butyl Alcohol (TBA)	ND	5200	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	52000	50.0	
TPPH	54000	52000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	94	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	95	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d25.5	15-04-0994-24-A	04/09/15 09:15	Solid	GC/MS OO	04/14/15	04/20/15 09:08	150419L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	2600	250	
1,2-Dibromoethane	ND	2600	250	
1,2-Dichloroethane	ND	2600	250	
Ethylbenzene	4900	2600	250	
Toluene	ND	2600	250	
p/m-Xylene	24000	2600	250	
o-Xylene	8300	2600	250	
Methyl-t-Butyl Ether (MTBE)	ND	2600	250	
Tert-Butyl Alcohol (TBA)	ND	26000	250	
Diisopropyl Ether (DIPE)	ND	5100	250	
Ethyl-t-Butyl Ether (ETBE)	ND	5100	250	
Tert-Amyl-Methyl Ether (TAME)	ND	5100	250	
Ethanol	ND	260000	250	
TPPH	380000	260000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-11d32	15-04-0994-25-A	04/09/15 09:40	Solid	GC/MS OO	04/14/15	04/20/15 09:36	150419L031

Parameter	Result	RL	DF	Qualifiers
Benzene	110	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	93	5.0	1.00	
Toluene	150	5.0	1.00	
p/m-Xylene	380	5.0	1.00	
o-Xylene	180	5.0	1.00	
Tert-Butyl Alcohol (TBA)	180	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	107	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	102	60-132	
Toluene-d8-TPPH	99	87-111	

SB-11d32	15-04-0994-25-A	04/09/15 09:40	Solid	GC/MS OO	04/14/15	04/20/15 10:05	150419L026
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Parameter	Result	RL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	850	490	50.0	
TPPH	110000	49000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	98	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d5.5	15-04-0994-26-A	04/09/15 11:15	Solid	GC/MS R	04/14/15	04/16/15 08:59	150415L042

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	28	63-141	2,6	
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	93	60-132		
Toluene-d8-TPPH	107	87-111		

 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d15	15-04-0994-27-A	04/09/15 11:25	Solid	GC/MS O	04/14/15	04/20/15 06:47	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	8.5	5.0	1.00	
o-Xylene	5.6	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	41	63-141	2,6	
1,2-Dichloroethane-d4	115	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	99	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d19.5	15-04-0994-28-A	04/09/15 11:30	Solid	GC/MS O	04/14/15	04/20/15 07:16	150419L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4900	500	
1,2-Dibromoethane	ND	4900	500	
1,2-Dichloroethane	ND	4900	500	
Ethylbenzene	30000	4900	500	
Toluene	12000	4900	500	
p/m-Xylene	130000	4900	500	
o-Xylene	45000	4900	500	
Methyl-t-Butyl Ether (MTBE)	ND	4900	500	
Tert-Butyl Alcohol (TBA)	ND	49000	500	
Diisopropyl Ether (DIPE)	ND	9800	500	
Ethyl-t-Butyl Ether (ETBE)	ND	9800	500	
Tert-Amyl-Methyl Ether (TAME)	ND	9800	500	
Ethanol	ND	490000	500	
TPPH	2600000	490000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	102	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	102	60-132		
Toluene-d8-TPPH	104	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-12d24	15-04-0994-29-A	04/09/15 11:40	Solid	GC/MS O	04/14/15	04/20/15 07:45	150419L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5100	500	
1,2-Dibromoethane	ND	5100	500	
1,2-Dichloroethane	ND	5100	500	
Ethylbenzene	53000	5100	500	
Toluene	64000	5100	500	
p/m-Xylene	240000	5100	500	
o-Xylene	92000	5100	500	
Methyl-t-Butyl Ether (MTBE)	ND	5100	500	
Tert-Butyl Alcohol (TBA)	ND	51000	500	
Diisopropyl Ether (DIPE)	ND	10000	500	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	500	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	500	
Ethanol	ND	510000	500	
TPPH	3800000	510000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	103	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d5.5	15-04-0994-30-A	04/09/15 14:00	Solid	GC/MS O	04/14/15	04/20/15 08:15	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	9.1	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	6.9	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	34	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	990	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	34	63-141	2,6	
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	103	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d8.5	15-04-0994-31-A	04/09/15 14:10	Solid	GC/MS O	04/14/15	04/20/15 08:44	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	49	63-141	2,6	
1,2-Dichloroethane-d4	110	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	100	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d18	15-04-0994-32-A	04/09/15 14:25	Solid	GC/MS O	04/14/15	04/20/15 09:13	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	108	63-141	
1,2-Dichloroethane-d4	106	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	100	87-111	


  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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### Analytical Report

Antea Group  
 11050 White Rock Rd. Suite# 110  
 Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
 Work Order: 15-04-0994  
 Preparation: EPA 5030C  
 Method: GC/MS / EPA 8260B  
 Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d22.5	15-04-0994-33-A	04/09/15 14:35	Solid	GC/MS O	04/14/15	04/22/15 00:05	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	5.1	5.0	1.00	
Tert-Butyl Alcohol (TBA)	180	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	97	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	108	60-132	
Toluene-d8-TPPH	102	87-111	

SB-13d22.5	15-04-0994-33-A	04/09/15 14:35	Solid	GC/MS O	04/14/15	04/20/15 09:42	150419L032
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Parameter	Result	RL	DF	Qualifiers
TPPH	310000	250000	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Toluene-d8-TPPH	100	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-13d23.5	15-04-0994-34-A	04/09/15 14:45	Solid	GC/MS O	04/14/15	04/20/15 10:11	150419L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1900	200	
1,2-Dibromoethane	ND	1900	200	
1,2-Dichloroethane	ND	1900	200	
Ethylbenzene	2000	1900	200	
Toluene	ND	1900	200	
p/m-Xylene	4100	1900	200	
o-Xylene	ND	1900	200	
Methyl-t-Butyl Ether (MTBE)	ND	1900	200	
Tert-Butyl Alcohol (TBA)	ND	19000	200	
Diisopropyl Ether (DIPE)	ND	3800	200	
Ethyl-t-Butyl Ether (ETBE)	ND	3800	200	
Tert-Amyl-Methyl Ether (TAME)	ND	3800	200	
Ethanol	ND	190000	200	
TPPH	550000	190000	200	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	103	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d5.5	15-04-0994-35-A	04/10/15 08:25	Solid	GC/MS O	04/14/15	04/20/15 10:40	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	104	63-141		
1,2-Dichloroethane-d4	109	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	99	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d10.5	15-04-0994-36-A	04/10/15 08:35	Solid	GC/MS O	04/14/15	04/20/15 11:09	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	109	62-146		
Toluene-d8	95	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

### Analytical Report

Antea Group  
 11050 White Rock Rd. Suite# 110  
 Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
 Work Order: 15-04-0994  
 Preparation: EPA 5030C  
 Method: GC/MS / EPA 8260B  
 Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d15	15-04-0994-37-A	04/10/15 08:40	Solid	GC/MS O	04/14/15	04/20/15 11:38	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	108	62-146	
Toluene-d8	104	80-120	
1,4-Bromofluorobenzene	101	60-132	
Toluene-d8-TPPH	105	87-111	

SB-14d15	15-04-0994-37-A	04/10/15 08:40	Solid	GC/MS R	04/14/15	04/22/15 19:48	150422L022
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Parameter	Result	RL	DF	Qualifiers
TPPH	ND	49000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Toluene-d8-TPPH	104	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d21	15-04-0994-38-A	04/10/15 08:50	Solid	GC/MS O	04/14/15	04/22/15 00:35	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	500	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	103	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-14d32	15-04-0994-39-A	04/10/15 09:00	Solid	GC/MS O	04/14/15	04/21/15 21:39	150421L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	1000	510	50.0	
Toluene	550	510	50.0	
p/m-Xylene	4300	510	50.0	
o-Xylene	1400	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	110000	51000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	107	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	105	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d5.5	15-04-0994-41-A	04/10/15 10:00	Solid	GC/MS O	04/14/15	04/20/15 04:51	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	36	63-141	2,6	
1,2-Dichloroethane-d4	118	62-146		
Toluene-d8	97	80-120		
1,4-Bromofluorobenzene	92	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d16	15-04-0994-42-A	04/10/15 10:15	Solid	GC/MS O	04/14/15	04/20/15 18:49	150420L029

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	11	5.1	1.00	
Toluene	5.9	5.1	1.00	
p/m-Xylene	56	5.1	1.00	
o-Xylene	28	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	12	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	640	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	107	63-141		
1,2-Dichloroethane-d4	118	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	101	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d20	15-04-0994-43-A	04/10/15 10:30	Solid	GC/MS O	04/14/15	04/21/15 22:09	150421L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1100	100	
1,2-Dibromoethane	ND	1100	100	
1,2-Dichloroethane	ND	1100	100	
Ethylbenzene	12000	1100	100	
Toluene	18000	1100	100	
p/m-Xylene	54000	1100	100	
o-Xylene	22000	1100	100	
Methyl-t-Butyl Ether (MTBE)	ND	1100	100	
Tert-Butyl Alcohol (TBA)	ND	11000	100	
Diisopropyl Ether (DIPE)	ND	2100	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2100	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2100	100	
Ethanol	ND	110000	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	103	60-132	
Toluene-d8-TPPH	105	87-111	

SB-15d20	15-04-0994-43-A	04/10/15 10:30	Solid	GC/MS R	04/14/15	04/22/15 21:12	150422L022
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Parameter	Result	RL	DF	Qualifiers
TPPH	590000	260000	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Toluene-d8-TPPH	105	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-15d24	15-04-0994-44-A	04/10/15 10:40	Solid	GC/MS O	04/14/15	04/21/15 00:40	150420L029

Parameter	Result	RL	DF	Qualifiers
Benzene	31	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	47	5.2	1.00	
Toluene	160	5.2	1.00	
p/m-Xylene	220	5.2	1.00	
o-Xylene	120	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	170	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	2500	520	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	101	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d5.5	15-04-0994-46-A	04/10/15 11:20	Solid	GC/MS O	04/14/15	04/22/15 01:04	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.3	1.00	
1,2-Dibromoethane	ND	5.3	1.00	
1,2-Dichloroethane	ND	5.3	1.00	
Ethylbenzene	ND	5.3	1.00	
Toluene	ND	5.3	1.00	
p/m-Xylene	ND	5.3	1.00	
o-Xylene	ND	5.3	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.3	1.00	
Tert-Butyl Alcohol (TBA)	ND	53	1.00	
Diisopropyl Ether (DIPE)	ND	11	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.00	
Ethanol	ND	530	1.00	
TPPH	ND	530	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	34	63-141	2,6	
1,2-Dichloroethane-d4	92	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	99	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d10.5	15-04-0994-47-A	04/10/15 11:25	Solid	GC/MS O	04/14/15	04/22/15 01:33	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.3	1.00	
1,2-Dibromoethane	ND	5.3	1.00	
1,2-Dichloroethane	ND	5.3	1.00	
Ethylbenzene	ND	5.3	1.00	
Toluene	ND	5.3	1.00	
p/m-Xylene	ND	5.3	1.00	
o-Xylene	ND	5.3	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.3	1.00	
Tert-Butyl Alcohol (TBA)	ND	53	1.00	
Diisopropyl Ether (DIPE)	ND	11	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.00	
Ethanol	ND	530	1.00	
TPPH	ND	530	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	40	63-141	2,6
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	95	80-120	
1,4-Bromofluorobenzene	94	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d16	15-04-0994-48-A	04/10/15 11:30	Solid	GC/MS O	04/14/15	04/22/15 02:02	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	37	63-141	2,6	
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	97	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-16d28	15-04-0994-49-A	04/10/15 11:50	Solid	GC/MS R	04/14/15	04/21/15 21:31	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.2	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	102	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	102	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1826	N/A	Solid	GC/MS R	04/15/15	04/15/15 19:58	150415L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	107	63-141		
1,2-Dichloroethane-d4	106	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	110	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1828	N/A	Solid	GC/MS R	04/15/15	04/16/15 08:03	150415L042

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	109	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1832</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/15/15</b>	<b>04/15/15 22:00</b>	<b>150415L057</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	106	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1837	N/A	Solid	GC/MS OO	04/19/15	04/19/15 15:03	150419L003

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1839</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/19/15</b>	<b>04/20/15 02:58</b>	<b>150419L026</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Naphthalene	ND	5000	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	91	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1839</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/19/15</b>	<b>04/20/15 02:58</b>	<b>150419L026</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	91	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1841	N/A	Solid	GC/MS O	04/19/15	04/20/15 04:22	150419L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	110	63-141	
1,2-Dichloroethane-d4	116	62-146	
Toluene-d8	97	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	98	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1843</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/19/15</b>	<b>04/20/15 03:26</b>	<b>150419L031</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Naphthalene	ND	50	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1851	N/A	Solid	GC/MS O	04/19/15	04/20/15 03:53	150419L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	112	62-146	
Toluene-d8	97	80-120	
1,4-Bromofluorobenzene	90	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1842	N/A	Solid	GC/MS O	04/20/15	04/20/15 18:20	150420L029

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	113	63-141	
1,2-Dichloroethane-d4	116	62-146	
Toluene-d8	97	80-120	
1,4-Bromofluorobenzene	93	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1845	N/A	Solid	GC/MS R	04/21/15	04/21/15 17:48	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	94	60-132	
Toluene-d8-TPPH	103	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1849	N/A	Solid	GC/MS O	04/21/15	04/21/15 20:41	150421L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	112	62-146	
Toluene-d8	97	80-120	
1,4-Bromofluorobenzene	95	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1852	N/A	Solid	GC/MS O	04/21/15	04/21/15 21:10	150421L067

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	112	63-141	
1,2-Dichloroethane-d4	120	62-146	
Toluene-d8	96	80-120	
1,4-Bromofluorobenzene	95	60-132	
Toluene-d8-TPPH	100	87-111	

Method Blank	099-12-798-1853	N/A	Solid	GC/MS R	04/22/15	04/22/15 17:48	150422L022
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Parameter	Result	RL	DF	Qualifiers
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	105	80-120	
1,4-Bromofluorobenzene	93	60-132	
Toluene-d8-TPPH	106	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1854</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS XX</b>	<b>04/22/15</b>	<b>04/23/15 10:50</b>	<b>150422L035</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	106	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	95	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-10d35	Sample	Solid	GC 46	04/15/15	04/15/15 23:35	150415S06
SB-10d35	Matrix Spike	Solid	GC 46	04/15/15	04/15/15 18:34	150415S06
SB-10d35	Matrix Spike Duplicate	Solid	GC 46	04/15/15	04/15/15 18:52	150415S06

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	371.4	93	360.9	90	64-130	3	0-15	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-11d32	Sample	Solid	GC 46	04/15/15	04/16/15 04:01	150415S07
SB-11d32	Matrix Spike	Solid	GC 46	04/15/15	04/16/15 02:14	150415S07
SB-11d32	Matrix Spike Duplicate	Solid	GC 46	04/15/15	04/16/15 02:32	150415S07

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	8.955	400.0	368.8	90	423.7	104	64-130	14	0-15	


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-15d20	Sample	Solid	GC 46	04/15/15	04/16/15 10:51	150415S10
SB-15d20	Matrix Spike	Solid	GC 46	04/15/15	04/16/15 09:58	150415S10
SB-15d20	Matrix Spike Duplicate	Solid	GC 46	04/15/15	04/16/15 10:15	150415S10

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	80.49	400.0	428.5	87	466.9	97	64-130	9	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1216-53	Sample	Solid	GC 47	04/18/15	04/18/15 20:14	150418S04S
15-04-1216-53	Matrix Spike	Solid	GC 47	04/18/15	04/18/15 18:11	150418S04S
15-04-1216-53	Matrix Spike Duplicate	Solid	GC 47	04/18/15	04/18/15 18:28	150418S04S

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	351.6	88	363.6	91	64-130	3	0-15	


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>SB-14d10.5</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 19:14</b>	<b>150415S04</b>				
<b>SB-14d10.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 18:13</b>	<b>150415S04</b>				
<b>SB-14d10.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 18:14</b>	<b>150415S04</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	ND	25.00	9.139	37	10.63	43	50-115	15	0-20	3
Arsenic	7.335	25.00	32.38	100	31.08	95	75-125	4	0-20	
Barium	177.4	25.00	183.1	4X	195.3	4X	75-125	4X	0-20	Q
Beryllium	0.4033	25.00	24.48	96	23.90	94	75-125	2	0-20	
Cadmium	ND	25.00	24.23	97	23.65	95	75-125	2	0-20	
Chromium	44.13	25.00	66.18	88	75.61	126	75-125	13	0-20	3
Cobalt	19.13	25.00	45.92	107	45.00	103	75-125	2	0-20	
Copper	28.99	25.00	57.03	112	55.26	105	75-125	3	0-20	
Lead	9.391	25.00	34.03	99	33.50	96	75-125	2	0-20	
Molybdenum	ND	25.00	22.80	91	22.47	90	75-125	1	0-20	
Nickel	58.39	25.00	85.14	107	82.58	97	75-125	3	0-20	
Selenium	ND	25.00	12.40	50	12.48	50	75-125	1	0-20	3
Silver	ND	12.50	9.867	79	10.33	83	75-125	5	0-20	
Thallium	ND	25.00	21.41	86	21.85	87	75-125	2	0-20	
Vanadium	49.42	25.00	73.73	97	72.34	92	75-125	2	0-20	
Zinc	50.25	25.00	76.04	103	73.69	94	75-125	3	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>SB-9d30.5</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 18:21</b>	<b>150415S05</b>				
<b>SB-9d30.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 18:03</b>	<b>150415S05</b>				
<b>SB-9d30.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 18:04</b>	<b>150415S05</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	ND	25.00	16.34	65	11.29	45	50-115	37	0-20	3,4
Arsenic	3.080	25.00	26.50	94	25.58	90	75-125	4	0-20	
Barium	94.59	25.00	71.04	0	121.3	107	75-125	52	0-20	3,4
Beryllium	0.2623	25.00	24.93	99	22.38	88	75-125	11	0-20	
Cadmium	ND	25.00	25.26	101	22.15	89	75-125	13	0-20	
Chromium	26.84	25.00	44.41	70	51.58	99	75-125	15	0-20	3
Cobalt	7.008	25.00	31.73	99	29.46	90	75-125	7	0-20	
Copper	13.14	25.00	34.16	84	40.40	109	75-125	17	0-20	
Lead	5.804	25.00	29.04	93	28.41	90	75-125	2	0-20	
Molybdenum	0.4505	25.00	25.01	98	21.26	83	75-125	16	0-20	
Nickel	25.50	25.00	42.62	68	47.54	88	75-125	11	0-20	3
Selenium	ND	25.00	20.64	83	14.50	58	75-125	35	0-20	3,4
Silver	ND	12.50	11.62	93	10.04	80	75-125	15	0-20	
Thallium	ND	25.00	23.08	92	19.43	78	75-125	17	0-20	
Vanadium	26.17	25.00	39.03	51	48.63	90	75-125	22	0-20	3,4
Zinc	31.44	25.00	46.11	59	60.77	117	75-125	27	0-20	3,4

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
SB-11d32	Sample	Solid	ICP 7300	04/15/15	04/16/15 18:55	150415S06				
SB-11d32	Matrix Spike	Solid	ICP 7300	04/15/15	04/16/15 18:05	150415S06				
SB-11d32	Matrix Spike Duplicate	Solid	ICP 7300	04/15/15	04/16/15 18:07	150415S06				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	11.83	47	10.78	43	50-115	9	0-20	3
Arsenic	7.420	25.00	30.16	91	29.36	88	75-125	3	0-20	
Barium	124.4	25.00	166.2	4X	129.8	4X	75-125	4X	0-20	Q
Beryllium	0.3464	25.00	25.78	102	24.66	97	75-125	4	0-20	
Cadmium	0.6055	25.00	25.19	98	24.58	96	75-125	2	0-20	
Chromium	50.86	25.00	64.06	53	66.34	62	75-125	3	0-20	3
Cobalt	11.82	25.00	37.23	102	37.00	101	75-125	1	0-20	
Copper	22.53	25.00	48.70	105	45.57	92	75-125	7	0-20	
Lead	5.054	25.00	31.07	104	29.52	98	75-125	5	0-20	
Molybdenum	ND	25.00	24.03	96	23.36	93	75-125	3	0-20	
Nickel	58.36	25.00	69.43	44	71.87	54	75-125	3	0-20	3
Selenium	ND	25.00	16.28	65	15.33	61	75-125	6	0-20	3
Silver	ND	12.50	11.13	89	10.16	81	75-125	9	0-20	
Thallium	ND	25.00	22.40	90	22.17	89	75-125	1	0-20	
Vanadium	55.03	25.00	62.63	30	68.73	55	75-125	9	0-20	3
Zinc	44.48	25.00	69.33	99	63.63	77	75-125	9	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-9d30.5	Sample	Solid	Mercury 05	04/17/15	04/17/15 16:05	150417S01
SB-9d30.5	Matrix Spike	Solid	Mercury 05	04/17/15	04/17/15 15:36	150417S01
SB-9d30.5	Matrix Spike Duplicate	Solid	Mercury 05	04/17/15	04/17/15 15:38	150417S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.1128	0.8350	0.9468	100	1.115	120	71-137	16	0-14	4

  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-11d32	Sample	Solid	Mercury 05	04/17/15	04/17/15 17:46	150417S02
SB-11d32	Matrix Spike	Solid	Mercury 05	04/17/15	04/17/15 15:41	150417S02
SB-11d32	Matrix Spike Duplicate	Solid	Mercury 05	04/17/15	04/17/15 15:43	150417S02

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	1.034	124	0.9819	118	71-137	5	0-14	

  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-14d10.5	Sample	Solid	Mercury 05	04/17/15	04/17/15 18:15	150417S03
SB-14d10.5	Matrix Spike	Solid	Mercury 05	04/17/15	04/17/15 15:49	150417S03
SB-14d10.5	Matrix Spike Duplicate	Solid	Mercury 05	04/17/15	04/17/15 15:52	150417S03

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.1118	0.8350	1.231	134	1.001	106	71-137	21	0-14	4

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Antea Group  
 11050 White Rock Rd. Suite# 110  
 Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
 Work Order: 15-04-0994  
 Preparation: EPA 5030C  
 Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1170-1	Sample	Aqueous	GC/MS O	04/19/15	04/19/15 16:41	150419S011
15-04-1170-1	Matrix Spike	Aqueous	GC/MS O	04/19/15	04/19/15 17:11	150419S011
15-04-1170-1	Matrix Spike Duplicate	Aqueous	GC/MS O	04/19/15	04/19/15 17:40	150419S011

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.93	102	50.07	100	74-122	2	0-21	
Ethylbenzene	ND	50.00	55.86	112	55.26	111	77-125	1	0-24	
Toluene	ND	50.00	51.52	103	50.27	101	72-126	2	0-23	
p/m-Xylene	ND	100.0	117.1	117	114.4	114	63-129	2	0-25	
o-Xylene	ND	50.00	60.24	120	58.81	118	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	51.19	102	52.05	104	68-134	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	264.2	106	261.7	105	65-143	1	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	51.71	103	75.11	150	61-139	37	0-20	3,4
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.85	106	50.92	102	64-136	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	51.75	103	50.40	101	67-133	3	0-20	
Ethanol	ND	500.0	510.3	102	454.4	91	34-178	12	0-58	

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RPD: Relative Percent Difference. CL: Control Limits

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1415-1	Sample	Aqueous	GC/MS OO	04/20/15	04/20/15 16:08	150420S014
15-04-1415-1	Matrix Spike	Aqueous	GC/MS OO	04/20/15	04/20/15 16:36	150420S014
15-04-1415-1	Matrix Spike Duplicate	Aqueous	GC/MS OO	04/20/15	04/20/15 17:05	150420S014

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.08	100	48.93	98	74-122	2	0-21	
Ethylbenzene	ND	50.00	51.74	103	50.82	102	77-125	2	0-24	
Toluene	ND	50.00	50.76	102	49.97	100	72-126	2	0-23	
p/m-Xylene	ND	100.0	106.5	106	104.3	104	63-129	2	0-25	
o-Xylene	ND	50.00	54.01	108	52.30	105	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	4.472	50.00	52.00	95	49.78	91	68-134	4	0-21	
Tert-Butyl Alcohol (TBA)	316.8	250.0	574.5	103	555.0	95	65-143	3	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	47.83	96	45.28	91	61-139	5	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	47.05	94	45.42	91	64-136	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.10	104	49.97	100	67-133	4	0-20	
Ethanol	ND	500.0	461.6	92	460.1	92	34-178	0	0-58	





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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-15d5.5	Sample	Solid	GC/MS O	04/14/15	04/20/15 04:51	150419S015
SB-15d5.5	Matrix Spike	Solid	GC/MS O	04/14/15	04/20/15 05:20	150419S015
SB-15d5.5	Matrix Spike Duplicate	Solid	GC/MS O	04/14/15	04/20/15 05:49	150419S015

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.28	81	33.22	66	61-127	19	0-20	
Carbon Tetrachloride	ND	50.00	38.30	77	29.64	59	51-135	26	0-29	
Chlorobenzene	ND	50.00	37.20	74	32.43	65	57-123	14	0-20	
1,2-Dichlorobenzene	ND	50.00	28.60	57	25.86	52	35-131	10	0-25	
1,2-Dibromoethane	ND	50.00	39.17	78	39.77	80	64-124	2	0-20	
1,1-Dichloroethene	ND	50.00	75.66	151	62.62	125	47-143	19	0-25	3
1,2-Dichloroethane	ND	50.00	42.97	86	41.84	84	80-120	3	0-20	
Ethylbenzene	ND	50.00	36.78	74	29.59	59	57-129	22	0-22	
Toluene	ND	50.00	39.49	79	32.59	65	63-123	19	0-20	
Trichloroethene	ND	50.00	78.11	156	64.43	129	44-158	19	0-20	
p/m-Xylene	ND	100.0	77.21	77	64.39	64	70-130	18	0-30	3
Vinyl Chloride	ND	50.00	37.66	75	25.01	50	49-139	40	0-47	
o-Xylene	ND	50.00	39.26	79	33.29	67	70-130	16	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	43.98	88	45.86	92	57-123	4	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	233.7	93	223.6	89	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	43.53	87	77.99	156	57-129	57	0-20	3,4
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	44.89	90	41.95	84	55-127	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	40.78	82	40.78	82	58-124	0	0-20	
Ethanol	ND	500.0	435.2	87	506.2	101	17-167	15	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-15d16	Sample	Solid	GC/MS O	04/14/15	04/20/15 18:49	150420S016
SB-15d16	Matrix Spike	Solid	GC/MS O	04/14/15	04/20/15 20:46	150420S016
SB-15d16	Matrix Spike Duplicate	Solid	GC/MS O	04/14/15	04/20/15 21:15	150420S016

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.83	82	37.62	75	61-127	8	0-20	
Carbon Tetrachloride	ND	50.00	40.51	81	38.14	76	51-135	6	0-29	
Chlorobenzene	ND	50.00	39.45	79	36.74	73	57-123	7	0-20	
1,2-Dichlorobenzene	ND	50.00	38.43	77	35.56	71	35-131	8	0-25	
1,2-Dibromoethane	ND	50.00	38.91	78	35.63	71	64-124	9	0-20	
1,1-Dichloroethene	ND	50.00	44.42	89	42.58	85	47-143	4	0-25	
1,2-Dichloroethane	ND	50.00	40.99	82	37.97	76	80-120	8	0-20	3
Ethylbenzene	11.33	50.00	47.87	73	43.48	64	57-129	10	0-22	
Toluene	5.931	50.00	43.50	75	40.97	70	63-123	6	0-20	
Trichloroethene	ND	50.00	52.05	104	57.03	114	44-158	9	0-20	
Vinyl Chloride	ND	50.00	44.24	88	47.71	95	49-139	8	0-47	
p/m-Xylene	56.35	100.0	115.8	59	103.6	47	70-130	11	0-30	3
Methyl-t-Butyl Ether (MTBE)	12.36	50.00	52.08	79	48.25	72	57-123	8	0-21	
o-Xylene	28.37	50.00	60.34	64	54.57	52	70-130	10	0-30	3
Tert-Butyl Alcohol (TBA)	ND	250.0	183.1	73	171.9	69	30-168	6	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	42.21	84	40.73	81	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	41.59	83	40.05	80	55-127	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	39.46	79	37.27	75	58-124	6	0-20	
Ethanol	ND	500.0	319.8	64	338.6	68	17-167	6	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-14d32	Sample	Solid	GC/MS O	04/14/15	04/21/15 21:39	150421S028
SB-14d32	Matrix Spike	Solid	GC/MS O	04/14/15	04/21/15 22:38	150421S028
SB-14d32	Matrix Spike Duplicate	Solid	GC/MS O	04/14/15	04/21/15 23:07	150421S028

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	5000	5166	103	5034	101	61-127	3	0-20	
Carbon Tetrachloride	ND	5000	4452	89	4527	91	51-135	2	0-29	
Chlorobenzene	ND	5000	4964	99	4919	98	57-123	1	0-20	
1,2-Dibromoethane	ND	5000	4839	97	4674	93	64-124	3	0-20	
1,2-Dichlorobenzene	ND	5000	5088	102	5116	102	35-131	1	0-25	
1,2-Dichloroethane	ND	5000	5110	102	4968	99	80-120	3	0-20	
1,1-Dichloroethene	ND	5000	5219	104	5243	105	47-143	0	0-25	
Ethylbenzene	1050	5000	6235	104	6058	100	57-129	3	0-22	
Toluene	547.9	5000	5712	103	5512	99	63-123	4	0-20	
Trichloroethene	ND	5000	4946	99	4880	98	44-158	1	0-20	
p/m-Xylene	4263	10000	14760	105	14300	100	70-130	3	0-30	
Vinyl Chloride	ND	5000	6111	122	6263	125	49-139	2	0-47	
o-Xylene	1414	5000	7116	114	6885	109	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	5000	5433	109	5472	109	57-123	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	25000	25360	101	25510	102	30-168	1	0-34	
Diisopropyl Ether (DIPE)	ND	5000	5540	111	5553	111	57-129	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	5516	110	5690	114	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	5000	5106	102	5076	102	58-124	1	0-20	
Ethanol	ND	50000	52620	105	49780	100	17-167	6	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-9d5.5	Sample	Solid	GC/MS R	04/14/15	04/15/15 20:54	150415S010
SB-9d5.5	Matrix Spike	Solid	GC/MS R	04/14/15	04/15/15 21:22	150415S010
SB-9d5.5	Matrix Spike Duplicate	Solid	GC/MS R	04/14/15	04/15/15 21:50	150415S010

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	44.93	90	41.97	84	61-127	7	0-20	
Carbon Tetrachloride	ND	50.00	43.77	88	37.65	75	51-135	15	0-29	
Chlorobenzene	ND	50.00	47.55	95	42.56	85	57-123	11	0-20	
1,2-Dichlorobenzene	ND	50.00	46.08	92	44.01	88	35-131	5	0-25	
1,2-Dibromoethane	ND	50.00	46.58	93	47.72	95	64-124	2	0-20	
1,1-Dichloroethene	ND	50.00	45.46	91	45.11	90	47-143	1	0-25	
1,2-Dichloroethane	ND	50.00	43.62	87	45.54	91	80-120	4	0-20	
Ethylbenzene	ND	50.00	46.82	94	40.62	81	57-129	14	0-22	
Toluene	ND	50.00	46.76	94	42.38	85	63-123	10	0-20	
Trichloroethene	ND	50.00	45.54	91	43.69	87	44-158	4	0-20	
p/m-Xylene	ND	100.0	99.55	100	86.29	86	70-130	14	0-30	
Vinyl Chloride	ND	50.00	41.45	83	46.24	92	49-139	11	0-47	
o-Xylene	ND	50.00	50.29	101	45.06	90	70-130	11	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	45.71	91	56.43	113	57-123	21	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	259.2	104	245.5	98	30-168	5	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	49.36	99	45.88	92	57-129	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	49.39	99	47.37	95	55-127	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	46.31	93	49.58	99	58-124	7	0-20	
Ethanol	ND	500.0	591.4	118	652.3	130	17-167	10	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-12d5.5	Sample	Solid	GC/MS R	04/14/15	04/16/15 08:59	150415S027
SB-12d5.5	Matrix Spike	Solid	GC/MS R	04/14/15	04/16/15 09:27	150415S027
SB-12d5.5	Matrix Spike Duplicate	Solid	GC/MS R	04/14/15	04/16/15 09:55	150415S027

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.12	94	41.84	84	61-127	12	0-20	
Carbon Tetrachloride	ND	50.00	42.22	84	36.13	72	51-135	16	0-29	
Chlorobenzene	ND	50.00	45.19	90	38.89	78	57-123	15	0-20	
1,2-Dichlorobenzene	ND	50.00	39.43	79	35.46	71	35-131	11	0-25	
1,2-Dibromoethane	ND	50.00	44.19	88	40.87	82	64-124	8	0-20	
1,1-Dichloroethene	ND	50.00	89.56	179	82.99	166	47-143	8	0-25	3
1,2-Dichloroethane	ND	50.00	43.55	87	39.49	79	80-120	10	0-20	3
Ethylbenzene	ND	50.00	43.80	88	37.53	75	57-129	15	0-22	
Toluene	ND	50.00	46.16	92	39.71	79	63-123	15	0-20	
Trichloroethene	ND	50.00	89.03	178	78.95	158	44-158	12	0-20	3
p/m-Xylene	ND	100.0	89.64	90	76.19	76	70-130	16	0-30	
Vinyl Chloride	ND	50.00	50.02	100	47.04	94	49-139	6	0-47	
o-Xylene	ND	50.00	46.43	93	40.39	81	70-130	14	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	56.48	113	52.23	104	57-123	8	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	252.3	101	236.9	95	30-168	6	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	58.81	118	52.84	106	57-129	11	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	60.43	121	54.93	110	55-127	10	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.21	100	45.75	91	58-124	9	0-20	
Ethanol	ND	500.0	572.1	114	505.4	101	17-167	12	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1216-10	Sample	Solid	GC/MS R	04/16/15	04/21/15 18:44	150421S008
15-04-1216-10	Matrix Spike	Solid	GC/MS R	04/16/15	04/21/15 19:12	150421S008
15-04-1216-10	Matrix Spike Duplicate	Solid	GC/MS R	04/16/15	04/21/15 19:39	150421S008

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	50.55	50.00	79.47	58	45.50	0	61-127	54	0-20	3,4
Carbon Tetrachloride	ND	50.00	41.04	82	38.82	78	51-135	6	0-29	
Chlorobenzene	ND	50.00	45.14	90	43.57	87	57-123	4	0-20	
1,2-Dichlorobenzene	ND	50.00	38.96	78	39.15	78	35-131	0	0-25	
1,2-Dibromoethane	ND	50.00	43.43	87	42.06	84	64-124	3	0-20	
1,1-Dichloroethene	ND	50.00	54.26	109	60.65	121	47-143	11	0-25	
1,2-Dichloroethane	ND	50.00	43.94	88	40.85	82	80-120	7	0-20	
Ethylbenzene	ND	50.00	46.42	93	43.80	88	57-129	6	0-22	
Toluene	37.62	50.00	66.14	57	52.85	30	63-123	22	0-20	3,4
Trichloroethene	ND	50.00	84.88	170	82.98	166	44-158	2	0-20	3
p/m-Xylene	9.890	100.0	96.39	87	91.13	81	70-130	6	0-30	
Vinyl Chloride	ND	50.00	38.41	77	44.21	88	49-139	14	0-47	
o-Xylene	ND	50.00	48.63	97	46.43	93	70-130	5	0-30	
Methyl-t-Butyl Ether (MTBE)	9.573	50.00	50.38	82	50.47	82	57-123	0	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	251.7	101	243.0	97	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	48.52	97	49.02	98	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.43	97	47.47	95	55-127	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	47.93	96	44.89	90	58-124	7	0-20	
Ethanol	ND	500.0	489.2	98	455.4	91	17-167	7	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1216-22	Sample	Solid	GC/MS R	04/16/15	04/22/15 18:16	150422S012
15-04-1216-22	Matrix Spike	Solid	GC/MS R	04/16/15	04/22/15 18:44	150422S012
15-04-1216-22	Matrix Spike Duplicate	Solid	GC/MS R	04/16/15	04/22/15 19:12	150422S012

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	5000	4878	98	4839	97	61-127	1	0-20	
Carbon Tetrachloride	ND	5000	3667	73	3835	77	51-135	4	0-29	
Chlorobenzene	ND	5000	4981	100	5211	104	57-123	5	0-20	
1,2-Dibromoethane	ND	5000	4334	87	4607	92	64-124	6	0-20	
1,2-Dichlorobenzene	ND	5000	4899	98	5374	107	35-131	9	0-25	
1,2-Dichloroethane	ND	5000	4309	86	4149	83	80-120	4	0-20	
1,1-Dichloroethene	ND	5000	4414	88	4951	99	47-143	11	0-25	
Ethylbenzene	ND	5000	4806	96	5087	102	57-129	6	0-22	
Toluene	ND	5000	5225	105	5579	112	63-123	7	0-20	
Trichloroethene	ND	5000	4874	97	5090	102	44-158	4	0-20	
Vinyl Chloride	ND	5000	4317	86	5247	105	49-139	19	0-47	
p/m-Xylene	ND	10000	9844	98	10130	101	70-130	3	0-30	
o-Xylene	ND	5000	5100	102	5309	106	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	5000	4341	87	4910	98	57-123	12	0-21	
Tert-Butyl Alcohol (TBA)	ND	25000	24830	99	25260	101	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	5000	4900	98	5762	115	57-129	16	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	4683	94	5398	108	55-127	14	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	5000	4602	92	4977	100	58-124	8	0-20	
Ethanol	ND	50000	10760	22	35160	70	17-167	106	0-47	4

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-10d35	Sample	Solid	GC/MS OO	04/14/15	04/15/15 22:29	150415S035
SB-10d35	Matrix Spike	Solid	GC/MS OO	04/14/15	04/15/15 22:57	150415S035
SB-10d35	Matrix Spike Duplicate	Solid	GC/MS OO	04/14/15	04/15/15 23:26	150415S035

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	14.00	50.00	57.03	86	55.97	84	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	31.53	63	32.30	65	51-135	2	0-29	
Chlorobenzene	ND	50.00	44.53	89	43.55	87	57-123	2	0-20	
1,2-Dichlorobenzene	ND	50.00	44.61	89	44.16	88	35-131	1	0-25	
1,2-Dibromoethane	ND	50.00	43.51	87	41.68	83	64-124	4	0-20	
1,1-Dichloroethene	ND	50.00	40.09	80	39.27	79	47-143	2	0-25	
1,2-Dichloroethane	ND	50.00	46.82	94	45.17	90	80-120	4	0-20	
Ethylbenzene	8.536	50.00	52.07	87	50.56	84	57-129	3	0-22	
Toluene	12.61	50.00	59.10	93	57.15	89	63-123	3	0-20	
Trichloroethene	ND	50.00	41.30	83	40.93	82	44-158	1	0-20	
p/m-Xylene	31.03	100.0	120.5	89	116.0	85	70-130	4	0-30	
Vinyl Chloride	ND	50.00	36.51	73	35.14	70	49-139	4	0-47	
o-Xylene	12.65	50.00	57.23	89	55.45	86	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	390.8	50.00	507.9	234	508.8	236	57-123	0	0-21	3
Tert-Butyl Alcohol (TBA)	323.2	250.0	554.7	93	591.3	107	30-168	6	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	42.33	85	40.53	81	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	34.69	69	33.26	67	55-127	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.96	88	42.89	86	58-124	2	0-20	
Ethanol	ND	500.0	470.4	94	475.4	95	17-167	1	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-0792-46	Sample	Solid	GC/MS OO	04/11/15	04/19/15 16:01	150419S006
15-04-0792-46	Matrix Spike	Solid	GC/MS OO	04/11/15	04/19/15 16:30	150419S006
15-04-0792-46	Matrix Spike Duplicate	Solid	GC/MS OO	04/11/15	04/19/15 16:58	150419S006

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	51.96	104	51.10	102	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	50.17	100	47.63	95	51-135	5	0-29	
Chlorobenzene	ND	50.00	55.09	110	54.56	109	57-123	1	0-20	
1,2-Dichlorobenzene	ND	50.00	54.20	108	55.12	110	35-131	2	0-25	
1,2-Dibromoethane	ND	50.00	50.67	101	51.14	102	64-124	1	0-20	
1,1-Dichloroethene	ND	50.00	52.18	104	49.53	99	47-143	5	0-25	
1,2-Dichloroethane	ND	50.00	51.96	104	52.18	104	80-120	0	0-20	
Ethylbenzene	ND	50.00	56.02	112	54.47	109	57-129	3	0-22	
Toluene	ND	50.00	54.15	108	53.48	107	63-123	1	0-20	
Trichloroethene	ND	50.00	51.13	102	49.73	99	44-158	3	0-20	
p/m-Xylene	ND	100.0	116.7	117	113.6	114	70-130	3	0-30	
Vinyl Chloride	ND	50.00	60.87	122	56.37	113	49-139	8	0-47	
o-Xylene	ND	50.00	58.82	118	57.47	115	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	50.76	102	51.54	103	57-123	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	280.8	112	290.2	116	30-168	3	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	49.83	100	50.30	101	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.05	100	50.53	101	55-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	54.87	110	56.89	114	58-124	4	0-20	
Ethanol	ND	500.0	2258	452	2395	479	17-167	6	0-47	3

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-11d24.5	Sample	Solid	GC/MS OO	04/14/15	04/20/15 03:55	150419S012
SB-11d24.5	Matrix Spike	Solid	GC/MS OO	04/14/15	04/20/15 04:23	150419S012
SB-11d24.5	Matrix Spike Duplicate	Solid	GC/MS OO	04/14/15	04/20/15 04:52	150419S012

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	5000	4987	100	4783	96	61-127	4	0-20	
Carbon Tetrachloride	ND	5000	4451	89	4367	87	51-135	2	0-29	
Chlorobenzene	ND	5000	5295	106	5030	101	57-123	5	0-20	
1,2-Dichlorobenzene	ND	5000	5251	105	4994	100	35-131	5	0-25	
1,2-Dibromoethane	ND	5000	4964	99	4767	95	64-124	4	0-20	
1,1-Dichloroethene	ND	5000	4538	91	4404	88	47-143	3	0-25	
1,2-Dichloroethane	ND	5000	4997	100	4682	94	80-120	7	0-20	
Ethylbenzene	699.2	5000	5942	105	5622	98	57-129	6	0-22	
Toluene	ND	5000	5607	112	5265	105	63-123	6	0-20	
Trichloroethene	ND	5000	5547	111	5504	110	44-158	1	0-20	
p/m-Xylene	3473	10000	14140	107	13370	99	70-130	6	0-30	
Vinyl Chloride	ND	5000	5264	105	4987	100	49-139	5	0-47	
o-Xylene	1260	5000	6813	111	6398	103	70-130	6	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	5000	4861	97	4737	95	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	25000	28410	114	26990	108	30-168	5	0-34	
Diisopropyl Ether (DIPE)	ND	5000	4836	97	4629	93	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	6502	130	6288	126	55-127	3	0-20	3
Tert-Amyl-Methyl Ether (TAME)	ND	5000	5464	109	5203	104	58-124	5	0-20	
Ethanol	ND	50000	246000	492	231200	462	17-167	6	0-47	3

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1377-8	Sample	Solid	GC/MS XX	04/17/15	04/23/15 04:55	150422S016
15-04-1377-8	Matrix Spike	Solid	GC/MS XX	04/17/15	04/23/15 05:22	150422S016
15-04-1377-8	Matrix Spike Duplicate	Solid	GC/MS XX	04/17/15	04/23/15 05:50	150422S016

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.15	80	40.31	81	61-127	0	0-20	
Carbon Tetrachloride	ND	50.00	42.59	85	43.10	86	51-135	1	0-29	
Chlorobenzene	ND	50.00	43.53	87	43.63	87	57-123	0	0-20	
1,2-Dibromoethane	ND	50.00	43.94	88	43.73	87	64-124	0	0-20	
1,2-Dichlorobenzene	ND	50.00	43.34	87	42.62	85	35-131	2	0-25	
1,2-Dichloroethane	ND	50.00	39.84	80	39.53	79	80-120	1	0-20	3
1,1-Dichloroethene	ND	50.00	41.48	83	41.96	84	47-143	1	0-25	
Ethylbenzene	ND	50.00	43.56	87	44.13	88	57-129	1	0-22	
Toluene	ND	50.00	42.89	86	42.85	86	63-123	0	0-20	
Trichloroethene	ND	50.00	45.92	92	45.91	92	44-158	0	0-20	
Vinyl Chloride	ND	50.00	34.76	70	35.62	71	49-139	2	0-47	
p/m-Xylene	ND	100.0	88.83	89	89.12	89	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.19	94	47.17	94	57-123	0	0-21	
o-Xylene	ND	50.00	46.12	92	46.33	93	70-130	0	0-30	
Tert-Butyl Alcohol (TBA)	ND	250.0	228.1	91	224.4	90	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	39.23	78	33.13	66	57-129	17	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.00	96	48.02	96	55-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	48.78	98	49.21	98	58-124	1	0-20	
Ethanol	ND	500.0	269.2	54	216.4	43	17-167	22	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1012	LCS	Aqueous	GC 47	04/15/15	04/17/15 04:39	150415B12			
099-15-304-1012	LCSD	Aqueous	GC 47	04/15/15	04/17/15 04:57	150415B12			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1562	78	1523	76	75-117	3	0-13	


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1730</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/15/15 18:16</b>	<b>150415B06</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	417.0	104	75-123	


  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1731</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 01:56</b>	<b>150415B07</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	412.5	103	75-123	

  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1732</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/15/15</b>	<b>04/16/15 09:40</b>	<b>150415B10</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	433.7	108	75-123	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1735</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 17:53</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	394.8	99	75-123	

  
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RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20818</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/16/15 17:58</b>	<b>150415L04</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	21.92	88	80-120	73-127	
Arsenic		25.00	19.96	80	80-120	73-127	
Barium		25.00	24.29	97	80-120	73-127	
Beryllium		25.00	20.38	82	80-120	73-127	
Cadmium		25.00	21.74	87	80-120	73-127	
Chromium		25.00	22.37	89	80-120	73-127	
Cobalt		25.00	23.30	93	80-120	73-127	
Copper		25.00	22.51	90	80-120	73-127	
Lead		25.00	22.16	89	80-120	73-127	
Molybdenum		25.00	21.51	86	80-120	73-127	
Nickel		25.00	22.90	92	80-120	73-127	
Selenium		25.00	20.10	80	80-120	73-127	
Silver		12.50	12.29	98	80-120	73-127	
Thallium		25.00	20.32	81	80-120	73-127	
Vanadium		25.00	21.72	87	80-120	73-127	
Zinc		25.00	25.46	102	80-120	73-127	

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

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20822</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/21/15 17:10</b>	<b>150415L05</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	25.67	103	80-120	73-127	
Arsenic		25.00	25.91	104	80-120	73-127	
Barium		25.00	26.92	108	80-120	73-127	
Beryllium		25.00	25.44	102	80-120	73-127	
Cadmium		25.00	26.50	106	80-120	73-127	
Chromium		25.00	27.94	112	80-120	73-127	
Cobalt		25.00	27.99	112	80-120	73-127	
Copper		25.00	26.47	106	80-120	73-127	
Lead		25.00	27.93	112	80-120	73-127	
Molybdenum		25.00	26.63	107	80-120	73-127	
Nickel		25.00	28.68	115	80-120	73-127	
Selenium		25.00	25.60	102	80-120	73-127	
Silver		12.50	13.17	105	80-120	73-127	
Thallium		25.00	28.10	112	80-120	73-127	
Vanadium		25.00	27.03	108	80-120	73-127	
Zinc		25.00	26.28	105	80-120	73-127	

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 Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20824</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/15/15</b>	<b>04/21/15 17:11</b>	<b>150415L06</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	24.78	99	80-120	73-127	
Arsenic		25.00	24.58	98	80-120	73-127	
Barium		25.00	25.08	100	80-120	73-127	
Beryllium		25.00	23.85	95	80-120	73-127	
Cadmium		25.00	24.99	100	80-120	73-127	
Chromium		25.00	25.97	104	80-120	73-127	
Cobalt		25.00	26.20	105	80-120	73-127	
Copper		25.00	25.20	101	80-120	73-127	
Lead		25.00	26.43	106	80-120	73-127	
Molybdenum		25.00	25.04	100	80-120	73-127	
Nickel		25.00	26.95	108	80-120	73-127	
Selenium		25.00	23.99	96	80-120	73-127	
Silver		12.50	12.39	99	80-120	73-127	
Thallium		25.00	26.45	106	80-120	73-127	
Vanadium		25.00	25.24	101	80-120	73-127	
Zinc		25.00	24.64	99	80-120	73-127	

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

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1168</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:30</b>	<b>150417L01</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.9689	116	85-121	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1169</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:32</b>	<b>150417L02</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.9100	109	85-121	

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1170</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/17/15</b>	<b>04/17/15 15:34</b>	<b>150417L03</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.9687	116	85-121	

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6874	LCS	Aqueous	GC/MS O	04/19/15	04/19/15 14:07	150419L024				
099-12-767-6874	LCSD	Aqueous	GC/MS O	04/19/15	04/19/15 15:00	150419L024				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.26	97	48.26	97	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	49.58	99	49.58	99	67-139	55-151	0	0-20	
Chlorobenzene	50.00	51.80	104	51.80	104	78-120	71-127	0	0-20	
1,2-Dibromoethane	50.00	50.24	100	50.24	100	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	50.00	51.50	103	51.50	103	63-129	52-140	0	0-20	
1,2-Dichloroethane	50.00	51.34	103	51.34	103	70-130	60-140	0	0-20	
1,1-Dichloroethene	50.00	51.49	103	51.49	103	66-126	56-136	0	0-20	
Ethylbenzene	50.00	53.65	107	53.65	107	80-123	73-130	0	0-20	
Toluene	50.00	49.00	98	49.00	98	80-120	73-127	0	0-20	
Trichloroethene	50.00	49.11	98	49.11	98	80-122	73-129	0	0-20	
Vinyl Chloride	50.00	38.28	77	38.28	77	70-130	60-140	0	0-20	
p/m-Xylene	100.0	114.1	114	114.1	114	75-123	67-131	0	0-25	
o-Xylene	50.00	59.24	118	59.24	118	74-122	66-130	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	49.12	98	49.12	98	69-129	59-139	0	0-22	
Tert-Butyl Alcohol (TBA)	250.0	259.7	104	259.7	104	69-129	59-139	0	0-25	
Diisopropyl Ether (DIPE)	50.00	48.79	98	48.79	98	68-128	58-138	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	51.21	102	51.21	102	63-135	51-147	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.21	98	49.21	98	67-133	56-144	0	0-20	
Ethanol	500.0	479.8	96	479.8	96	42-168	21-189	0	0-20	
TPPH	1000	894.0	89	766.6	77	65-135	53-147	15	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6875	LCS	Aqueous	GC/MS OO	04/20/15	04/20/15 14:13	150420L026				
099-12-767-6875	LCSD	Aqueous	GC/MS OO	04/20/15	04/20/15 14:42	150420L026				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.65	103	N/A	N/A	80-120	73-127	N/A	0-20	
Carbon Tetrachloride	50.00	55.85	112	N/A	N/A	67-139	55-151	N/A	0-20	
Chlorobenzene	50.00	54.34	109	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	51.60	103	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	54.57	109	N/A	N/A	63-129	52-140	N/A	0-20	
1,2-Dichloroethane	50.00	50.38	101	N/A	N/A	70-130	60-140	N/A	0-20	
1,1-Dichloroethene	50.00	50.61	101	N/A	N/A	66-126	56-136	N/A	0-20	
Ethylbenzene	50.00	53.74	107	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	51.99	104	N/A	N/A	80-120	73-127	N/A	0-20	
Trichloroethene	50.00	51.93	104	N/A	N/A	80-122	73-129	N/A	0-20	
Vinyl Chloride	50.00	46.50	93	N/A	N/A	70-130	60-140	N/A	0-20	
p/m-Xylene	100.0	110.7	111	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	55.61	111	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.32	101	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	252.1	101	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	49.48	99	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	55.48	111	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	54.27	109	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	478.8	96	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	1000	100	974.7	97	65-135	53-147	3	0-30	

Total number of LCS compounds: 20

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1841	LCS	Solid	GC/MS O	04/19/15	04/20/15 01:56	150419L030				
099-12-798-1841	LCSD	Solid	GC/MS O	04/19/15	04/20/15 02:25	150419L030				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.98	88	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	43.57	87	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	46.23	92	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	46.29	93	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	46.05	92	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	46.46	93	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	46.67	93	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	47.23	94	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	43.41	87	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	43.44	87	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	100.4	100	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	38.64	77	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.15	104	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.63	93	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	239.6	96	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.78	96	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.42	97	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	44.41	89	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	500.6	100	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	864.2	86	882.7	88	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1851	LCS	Solid	GC/MS O	04/19/15	04/20/15 01:56	150419L032				
099-12-798-1851	LCSD	Solid	GC/MS O	04/19/15	04/20/15 02:25	150419L032				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.98	88	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	43.57	87	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	46.23	92	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	46.29	93	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	46.05	92	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	46.46	93	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	46.67	93	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	47.23	94	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	43.41	87	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	43.44	87	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	100.4	100	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	38.64	77	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.15	104	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.63	93	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	239.6	96	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.78	96	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.42	97	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	44.41	89	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	500.6	100	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	864.2	86	882.7	88	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1842	LCS	Solid	GC/MS O	04/20/15	04/20/15 15:40	150420L029				
099-12-798-1842	LCSD	Solid	GC/MS O	04/20/15	04/20/15 16:15	150420L029				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.44	99	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	49.73	99	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	51.66	103	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	51.34	103	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	49.34	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	51.94	104	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	50.96	102	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.57	105	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	49.63	99	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.88	98	N/A	N/A	80-120	73-127	N/A	0-20	
Vinyl Chloride	50.00	51.69	103	N/A	N/A	68-122	59-131	N/A	0-20	
p/m-Xylene	100.0	110.8	111	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.46	103	N/A	N/A	77-120	70-127	N/A	0-20	
o-Xylene	50.00	57.61	115	N/A	N/A	75-125	67-133	N/A	0-25	
Tert-Butyl Alcohol (TBA)	250.0	256.4	103	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	51.37	103	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	54.13	108	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.47	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	491.9	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	874.2	87	884.4	88	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1849	LCS	Solid	GC/MS O	04/21/15	04/21/15 18:13	150421L057				
099-12-798-1849	LCSD	Solid	GC/MS O	04/21/15	04/21/15 18:42	150421L057				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.36	97	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	50.12	100	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	49.63	99	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dibromoethane	50.00	47.83	96	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.47	101	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dichloroethane	50.00	50.86	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethane	50.00	52.43	105	N/A	N/A	74-122	66-130	N/A	0-20	
Ethylbenzene	50.00	51.51	103	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.74	97	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.70	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	110.3	110	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	54.91	110	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	57.14	114	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.99	102	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	245.1	98	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	52.52	105	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.51	105	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.19	96	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	465.3	93	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	787.0	79	806.3	81	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1852	LCS	Solid	GC/MS O	04/21/15	04/21/15 18:13	150421L067				
099-12-798-1852	LCSD	Solid	GC/MS O	04/21/15	04/21/15 18:42	150421L067				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.36	97	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	50.12	100	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	49.63	99	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.47	101	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	47.83	96	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	52.43	105	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	50.86	102	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	51.51	103	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.74	97	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.70	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	110.3	110	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	54.91	110	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	57.14	114	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.99	102	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	245.1	98	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	52.52	105	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.51	105	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.19	96	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	465.3	93	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	787.0	79	806.3	81	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1826	LCS	Solid	GC/MS R	04/15/15	04/15/15 18:01	150415L009				
099-12-798-1826	LCSD	Solid	GC/MS R	04/15/15	04/15/15 19:02	150415L009				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.69	95	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	48.72	97	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	49.84	100	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	48.08	96	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	45.56	91	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	56.12	112	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	46.78	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.06	98	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.04	96	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.62	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	102.4	102	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	53.37	107	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.61	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	53.37	107	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	215.6	86	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	55.70	111	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.23	94	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.24	98	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	532.3	106	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	930.4	93	974.9	97	65-135	53-147	5	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1828	LCS	Solid	GC/MS R	04/15/15	04/16/15 06:40	150415L042				
099-12-798-1828	LCSD	Solid	GC/MS R	04/15/15	04/16/15 07:08	150415L042				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.81	98	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	41.54	83	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	49.70	99	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.46	101	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	48.04	96	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	53.65	107	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	40.85	82	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	47.95	96	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	49.08	98	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	47.84	96	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	98.47	98	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	53.68	107	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	51.25	103	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	54.18	108	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	232.9	93	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	58.19	116	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	51.59	103	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.25	100	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	574.1	115	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	866.1	87	896.1	90	65-135	53-147	3	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1845	LCS	Solid	GC/MS R	04/21/15	04/21/15 16:24	150421L022				
099-12-798-1845	LCSD	Solid	GC/MS R	04/21/15	04/21/15 16:52	150421L022				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.27	87	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	44.34	89	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	50.14	100	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	50.49	101	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	44.53	89	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	46.60	93	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	45.20	90	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.78	100	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	50.61	101	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.69	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	102.2	102	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	43.87	88	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	51.37	103	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.78	86	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	242.6	97	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.20	94	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.08	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	46.16	92	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	461.9	92	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	965.9	97	956.3	96	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits





Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1853	LCS	Solid	GC/MS R	04/22/15	04/22/15 15:56	150422L022				
099-12-798-1853	LCSD	Solid	GC/MS R	04/22/15	04/22/15 16:24	150422L022				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.59	87	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	43.14	86	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	50.04	100	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dibromoethane	50.00	45.05	90	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	49.71	99	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dichloroethane	50.00	43.94	88	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethane	50.00	44.86	90	N/A	N/A	74-122	66-130	N/A	0-20	
Ethylbenzene	50.00	50.34	101	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	51.25	102	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	49.11	98	N/A	N/A	80-120	73-127	N/A	0-20	
Vinyl Chloride	50.00	42.60	85	N/A	N/A	68-122	59-131	N/A	0-20	
p/m-Xylene	100.0	103.1	103	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	52.41	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.19	86	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	254.8	102	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	48.04	96	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.39	93	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.83	92	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	488.7	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	978.2	98	876.7	88	65-135	53-147	11	0-30	

Total number of LCS compounds: 20

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1832	LCS	Solid	GC/MS OO	04/15/15	04/15/15 19:42	150415L057				
099-12-798-1832	LCSD	Solid	GC/MS OO	04/15/15	04/15/15 20:11	150415L057				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.58	91	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	37.86	76	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	50.52	101	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	51.18	102	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	48.07	96	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	43.82	88	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	50.94	102	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	46.28	93	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.94	98	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	46.38	93	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	94.35	94	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	38.01	76	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	47.73	95	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.56	87	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	228.8	92	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.61	91	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	37.64	75	N/A	N/A	78-120	71-127	N/A	0-20	ME
Tert-Amyl-Methyl Ether (TAME)	50.00	46.30	93	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	520.8	104	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	878.7	88	923.3	92	65-135	53-147	5	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1837	LCS	Solid	GC/MS OO	04/19/15	04/19/15 12:47	150419L003				
099-12-798-1837	LCSD	Solid	GC/MS OO	04/19/15	04/19/15 13:15	150419L003				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.22	104	52.22	104	78-120	71-127	0	0-20	
Carbon Tetrachloride	50.00	62.72	125	62.72	125	49-139	34-154	0	0-20	
Chlorobenzene	50.00	54.97	110	54.97	110	79-120	72-127	0	0-20	
1,2-Dichlorobenzene	50.00	54.05	108	54.05	108	75-120	68-128	0	0-20	
1,2-Dibromoethane	50.00	51.57	103	51.57	103	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	51.74	103	51.74	103	74-122	66-130	0	0-20	
1,2-Dichloroethane	50.00	51.26	103	51.26	103	80-120	73-127	0	0-20	
Ethylbenzene	50.00	55.36	111	55.36	111	76-120	69-127	0	0-20	
Toluene	50.00	52.85	106	52.85	106	77-120	70-127	0	0-20	
Trichloroethene	50.00	52.42	105	52.42	105	80-120	73-127	0	0-20	
p/m-Xylene	100.0	114.2	114	114.2	114	75-125	67-133	0	0-25	
Vinyl Chloride	50.00	40.64	81	40.64	81	68-122	59-131	0	0-20	
o-Xylene	50.00	56.73	113	56.73	113	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.67	97	48.67	97	77-120	70-127	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	246.4	99	246.4	99	68-122	59-131	0	0-20	
Diisopropyl Ether (DIPE)	50.00	47.65	95	47.65	95	78-120	71-127	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.04	94	47.04	94	78-120	71-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.75	103	51.75	103	75-120	68-128	0	0-20	
Ethanol	500.0	466.9	93	466.9	93	56-140	42-154	0	0-20	
TPPH	1000	800.8	80	789.0	79	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1838	LCS	Solid	GC/MS OO	04/19/15	04/19/15 12:47	150419L016				
099-12-798-1838	LCSD	Solid	GC/MS OO	04/19/15	04/19/15 13:15	150419L016				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.22	104	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	62.72	125	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	54.97	110	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	54.05	108	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	51.57	103	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	51.74	103	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	51.26	103	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	55.36	111	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.85	106	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	52.42	105	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	114.2	114	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	40.64	81	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	56.73	113	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.67	97	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	246.4	99	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.65	95	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.04	94	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.75	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	466.9	93	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	800.8	80	789.0	79	65-135	53-147	1	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1839	LCS	Solid	GC/MS OO	04/19/15	04/20/15 01:32	150419L026				
099-12-798-1839	LCSD	Solid	GC/MS OO	04/19/15	04/20/15 02:01	150419L026				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.19	98	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	51.65	103	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	51.59	103	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	51.39	103	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	51.02	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	47.09	94	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	50.78	102	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	50.69	101	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	49.30	99	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.06	96	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	103.2	103	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	38.13	76	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.72	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.01	100	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	257.2	103	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	48.60	97	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.81	98	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.85	106	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	515.3	103	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	924.9	92	909.0	91	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1843	LCS	Solid	GC/MS OO	04/19/15	04/20/15 01:32	150419L031				
099-12-798-1843	LCSD	Solid	GC/MS OO	04/19/15	04/20/15 02:01	150419L031				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.19	98	N/A	N/A	78-120	71-127	N/A	0-20	
Carbon Tetrachloride	50.00	51.65	103	N/A	N/A	49-139	34-154	N/A	0-20	
Chlorobenzene	50.00	51.59	103	N/A	N/A	79-120	72-127	N/A	0-20	
1,2-Dichlorobenzene	50.00	51.39	103	N/A	N/A	75-120	68-128	N/A	0-20	
1,2-Dibromoethane	50.00	51.02	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,1-Dichloroethene	50.00	47.09	94	N/A	N/A	74-122	66-130	N/A	0-20	
1,2-Dichloroethane	50.00	50.78	102	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	50.69	101	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	49.30	99	N/A	N/A	77-120	70-127	N/A	0-20	
Trichloroethene	50.00	48.06	96	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	103.2	103	N/A	N/A	75-125	67-133	N/A	0-25	
Vinyl Chloride	50.00	38.13	76	N/A	N/A	68-122	59-131	N/A	0-20	
o-Xylene	50.00	52.72	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	50.01	100	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	257.2	103	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	48.60	97	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.81	98	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.85	106	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	515.3	103	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	924.9	92	909.0	91	65-135	53-147	2	0-30	

Total number of LCS compounds: 20

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 Limits



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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/14/15  
Work Order: 15-04-0994  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

Page 28 of 28

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-12-798-1854</b>	<b>LCS</b>	<b>Solid</b>	<b>GC/MS XX</b>	<b>04/22/15</b>	<b>04/23/15 03:33</b>	<b>150422L035</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	45.40	91	78-120	71-127	
Carbon Tetrachloride		50.00	46.53	93	49-139	34-154	
Chlorobenzene		50.00	50.89	102	79-120	72-127	
1,2-Dibromoethane		50.00	52.94	106	80-120	73-127	
1,2-Dichlorobenzene		50.00	53.30	107	75-120	68-128	
1,2-Dichloroethane		50.00	45.57	91	80-120	73-127	
1,1-Dichloroethene		50.00	45.35	91	74-122	66-130	
Ethylbenzene		50.00	50.33	101	76-120	69-127	
Toluene		50.00	48.83	98	77-120	70-127	
Trichloroethene		50.00	46.72	93	80-120	73-127	
Vinyl Chloride		50.00	39.74	79	68-122	59-131	
p/m-Xylene		100.0	102.5	102	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		50.00	54.43	109	77-120	70-127	
o-Xylene		50.00	53.43	107	75-125	67-133	
Tert-Butyl Alcohol (TBA)		250.0	259.8	104	68-122	59-131	
Diisopropyl Ether (DIPE)		50.00	40.70	81	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		50.00	55.46	111	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)		50.00	57.21	114	75-120	68-128	
Ethanol		500.0	361.2	72	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-04-0994

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 3510C	949	GC 47	1
EPA 8015B (M)	EPA 3550B	949	GC 46	1
EPA 8015B (M)	EPA 3550B	949	GC 47	1
GC/MS / EPA 8260B	EPA 5030C	163	GC/MS O	2
GC/MS / EPA 8260B	EPA 5030C	163	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	163	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	849	GC/MS O	2
GC/MS / EPA 8260B	EPA 5030C	849	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	905	GC/MS XX	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	975	GC/MS O	2


  
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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841



## Glossary of Terms and Qualifiers

Work Order: 15-04-0994

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
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. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



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CHAIN-OF-CUSTODY RECORD

DATE: \_\_\_\_\_ OF \_\_\_\_\_  
PAGE: 1 OF 5

W/O NO. / LAB USE ONLY  
**15-04-0994**

CLIENT PROJECT NAME / NO.:

BP #11117

PROJECT CONTACT: Dennis Dettloff

GLOBAL ID: T0600100201

LOG CODE:

SAMPLER(S): (PRINT) Jonathan Fillingame

P.O. NO.: 142611117

LAB CONTACT OR QUOTE NO.:

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110

CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS:  
CC results to jonathan.fillingame@anteagroup.com

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B Naphthalene	CAM17 Metals
1	SB-9d15.5	4/8/15	9:00	Soil	1	/			X	X	X	X	X
2	SB-9d10	4/8/15	9:05		1	/			X	X	X	X	X
3	SB-9d15	4/8/15	9:45		1	/			X	X	X	X	X
4	SB-9d20	4/8/15	11:10		1	/			X	X	X	X	X
5	SB-9d27	4/8/15	11:30		1	/			X	X	X	X	X
6	SB-9d30.5	4/8/15	11:35		1	/			X	X	X	X	X
7	SB-9d36	4/8/15	11:40		1	/			X	X	X	X	X
8	SB-10d5.5	4/8/15	13:30		1	/			X	X	X	X	X
9	SB-10d10	4/8/15	13:35		1	/			X	X	X	X	X
10	SB-10d15	4/8/15	13:40		1	/			X	X	X	X	X

Received by: (Signature/Affiliation) *(Antea)* Date: 4/10/15 Time: 14:00

Received by: (Signature/Affiliation) *(Antea)* Date: 4/13/15 Time: 14:00

Received by: (Signature/Affiliation) *(Antea)* Date: 4/14/15 Time: 10:10



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**CHAIN-OF-CUSTODY RECORD**

DATE: \_\_\_\_\_  
PAGE: 2 OF 5

WO NO. / LAB USE ONLY  
**15-04-0994**

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LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110  
CITY: Rancho Cordova STATE: CA ZIP: 95670  
TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS:  
CC results to jonathan.fillingame@anteagroup.com

CLIENT PROJECT NAME / NO.:

BP #11117

PROJECT CONTACT:

Dennis Dettloff

LOG CODE:

T0600100201

P.O. NO.:

142611117

LAB CONTACT OR QUOTE NO.:

SAMPLER(S): (PRINT)

Jonathan Fillingame

**REQUESTED ANALYSES**

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) <input type="checkbox"/> GRO by 8260B	<input checked="" type="checkbox"/> TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B Naphthalene	CAM17 Metals
		DATE	TIME										
	11 SB-10d19	4/8/15	13:49	Soil	1	/			X	X	X		X
	12 SB-10d25	4/8/15	13:50		1	/			X	X	X		X
	13 SB-10d28	4/8/15	14:00		1	/			X	X	X		X
	14 SB-10d32	4/8/15	14:10		1	/			X	X	X		X
	15 SB-10d35	4/8/15	14:20		1	/			X	X	X		X
	16 SB-11d55	4/9/15	8:20		1	/			X	X	X		X
	17 SB-11d68	4/9/15	8:25		1	/			X	X	X		X
	18 SB-11d16	4/9/15	8:35		1	/			X	X	X		X
	19 SB-11d18	4/9/15	8:40		1	/			X	X	X		X
	20 SB-11d19	4/9/15	8:42		1	/			X	X	X		X

Received by: (Signature/Affiliation)

(Antea)

Date: 4/10/15 Time: 14:00

Received by: (Signature/Affiliation)

Date: 4/13/15 Time: 14:00

Received by: (Signature/Affiliation)

Date: 4/14/15 Time: 1010

Relinquished by: (Signature) *Jonathan Fillingame*  
Relinquished by: (Signature) *[Signature]*  
Relinquished by: (Signature) *[Signature]*



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CHAIN-OF-CUSTODY RECORD

DATE: \_\_\_\_\_  
PAGE: 3 OF 5

WO. NO. / LAB USE ONLY  
15-04-0994

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110 STATE: CA ZIP: 95670

CITY: Rancho Cordova E-MAIL: dennis.dettloff@anteagroup.com

TEL: 916 503-1261

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS: CC results to jonathan.fillingame@anteagroup.com

CLIENT PROJECT NAME / NO.: BP #11117  
PROJECT CONTACT: Dennis Dettloff  
GLOBAL ID: T0600100201  
LOG CODE:  
SAMPLER(S): (PRINT) Jonathan Fillingame

REQUESTED ANALYSES  
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input checked="" type="checkbox"/> GRO by 8260B	TPH(d) <input checked="" type="checkbox"/> PRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B Naphthalene	CAM17 Metals
		DATE	TIME										
21	SB-11d20	4/9/15	8:45	Soil	1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
22	SB-11d22.5	4/9/15	8:55		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
23	SB-11d24.5	4/9/15	9:10		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
24	SB-11d26.5	4/9/15	9:15		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
25	SB-11d32	4/9/15	9:40		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
26	SB-12d5.5	4/9/15	11:15		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
27	SB-12d15	4/9/15	11:25		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
28	SB-12d19.5	4/9/15	11:30		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
29	SB-12d24	4/9/15	11:40		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
30	SB-13d5.5	4/9/15	14:00		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Received by: (Signature/Affiliation) *(Antea)* Date: 4/10/15 Time: 14:00

Received by: (Signature/Affiliation) *(Antea)* Date: 4/13/15 Time: 14:00

Received by: (Signature/Affiliation) *(Antea)* Date: 4/14/15 Time: 1010







From: (916) 851-7341  
Sandy Hayes  
Antea Group  
11050 White Rock Road  
Suite 110  
Rancho Cordova, CA 95670

Origin ID: MHRA



J151215022303uv

Ship Date: 13APR15  
ActWgt: 74.0 LB  
CAD: 8552223/NET3610

Dims: 25 X 13 X 15 IN

0994

SHIP TO: (714) 895-5494  
**Sample Receiving**  
**Cal Science**  
**7440 LINCOLN WAY**

**BILL SENDER**

**GARDEN GROVE, CA 92841**

Delivery Address Bar Code



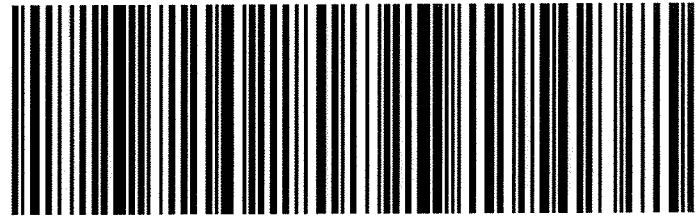
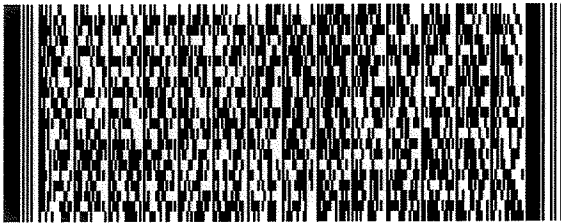
Ref # 42611117.0001  
Invoice #  
PO # 42611117.0001  
Dept #

**TUE - 14 APR AA**  
**STANDARD OVERNIGHT**

TRK# 7733 5820 4661  
0201

**92841**  
CA-US  
**SNA**

**92 APVA**



537J28FC5/EE4B

**After printing this label:**

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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**SAMPLE RECEIPT CHECKLIST**

COOLER 1 OF 1

CLIENT: Antea Group

DATE: 04/14/2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.5 °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  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter Checked by: LS

**CUSTODY SEAL:**

Cooler	<input type="checkbox"/> Present and Intact	<input type="checkbox"/> Present but Not Intact	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Checked by: <u>LS</u>
Sample(s)	<input type="checkbox"/> Present and Intact	<input type="checkbox"/> Present but Not Intact	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Checked by: <u>abS</u>

<b>SAMPLE CONDITION:</b>	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOA<sup>3</sup>  VOAn<sub>2</sub>  100PJ  100PJna<sub>2</sub>  125AGB  125AGBh  125AGBp  125PB  
 125PBz<sub>na</sub>  250AGB  250CGB  250CGBs  250PB  250PBn  500AGB  500AGJ  500AGJs  
 500PB  1AGB  1AGBna<sub>2</sub>  1AGBs  1PB  1PBna  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (S)  EnCores® (\_\_\_\_)  TerraCores® (\_\_\_\_)  \_\_\_\_\_

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag  
 Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: abS  
**s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **z<sub>na</sub>** = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 862

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**SAMPLE ANOMALY REPORT**

DATE: 04 / 14 / 2015

**SAMPLES, CONTAINERS, AND LABELS:**

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired (list client or ECI sample ID and analysis)
- Insufficient sample amount for requested analysis (list analysis)
- Improper container(s) used (list analysis)
- Improper preservative used (list analysis)
- No preservative noted on COC or label (list analysis and notify lab)
- Sample container(s) not labeled
- Client sample label(s) illegible (list container type and analysis)
- Client sample label(s) do not match COC (comment)
  - Project information
  - Client sample ID
  - Sampling date and/or time
  - Number of container(s)
  - Requested analysis
- Sample container(s) compromised (comment)
  - Broken
  - Water present in sample container
- Air sample container(s) compromised (comment)
  - Flat
  - Very low in volume
  - Leaking (not transferred; duplicate bag submitted)
  - Leaking (transferred into ECI Tedlar™ bags\*)
  - Leaking (transferred into client's Tedlar™ bags\*)

\* Transferred at client's request.

**MISCELLANEOUS:** (Describe)

**HEADSPACE:**

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**
40	B-C	3			

**Comments**

samples received but not listed on coc.  
 (-51) SB - 12 d 10  
 4/9/15 @ 11:20  
 (-52) SB - 12 d 22-5  
 4/9/15 @ 11:35  
 sample id per label is:  
 (-11) SB - 10 d 20  
 (-35) SB - 14 d 5  
 (-36) SB - 14 d 10  
 (-37) SB - 14 d 14-5  
 (-38) SB - 14 d 20-5  
 (-39) SB - 14 d 31-5  
 (-42) SB - 15 d 15-5  
 (-44) SB - 15 d 23-5  
 (collection date & time match)  
 (-15) collection time per label is: 14:10  
 water present in sample containers:  
 (-1), (-21), (-38)

**Comments**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: \_\_\_\_\_

Reported by: 965  
 Reviewed by: 862

\*\* Record the total number of containers (i.e., vials or bottles) for the affected sample.



Is the Data Valid?  
(circle)  
Yes / No

Preservation Temperature  
(if Known): 2.5 °C

## Antea Group Lab Validation Sheet

Project/Client: COP/ELT

Project #: 142611117

Date of Validation: 6/26/15 Date of Analysis: 4/21/15 Sample Date: 4/8/15

Completed By: Jon F. Signature: Jonathan F. Rufano

Analytical Lab Used and Report # (if any): Calscience 15-04-0994

- |   | Circle or Highlight Yes/No below |     |
|---|----------------------------------|-----|
| 1. Was the analysis the one requested?  | <u>Yes</u> / No                  |     |
| 2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?                           | <u>Yes</u> / No                  |     |
| 3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?  | <u>Yes</u> / No                  |     |
| 4. Once prepared/extracted, were the samples analyzed within the EPA holding times?   | <u>Yes</u> / No                  |     |
| 5. Were Laboratory blanks performed, if so, were they below non-detect?   | <u>Yes</u> / No                  |     |
| 6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m <sup>3</sup> , etc.) | <u>Yes</u> / No                  |     |
| 7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?                       | <u>Yes</u> / No                  |     |
| 8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?         | Yes / No                         | N/a |
| 9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?                            | Yes / <u>No</u>                  |     |
| 10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?   | <u>Yes</u> / No                  |     |
| 11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?   | Yes / <u>No</u>                  |     |

If any answer is no, explain why and what corrective action was taken:

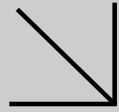
9. Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. (Antimony, Barium, Chromium, Nickel, Selenium, Vanadium, Zinc, benzene, toluene, p/m-Xylene, o-Xylene, MTBE 1,1-Dichloroethene, 1,2-DCA, Trichloroethene, DIPE, ETBE, Ethanol).

11. The MS/MSD RPD was out of control due to suspected matrix interference. (Antimony, Barium, Selenium, Vanadium, Zinc, Mercury, benzene, toluene, DIPE, Ethanol)

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. (Barium)



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**WORK ORDER NUMBER: 15-04-1216**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Antea Group

**Client Project Name:** BP #11117

**Attention:** Dennis Dettloff  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Approved for release on 04/27/2015 by:  
Richard Villafania  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 15-04-1216

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 04/16/15. They were assigned to Work Order 15-04-1216.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-17GW</b>	<b>15-04-1216-1-C</b>	<b>04/13/15 11:45</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/17/15</b>	<b>04/22/15 12:21</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		71000		1700		10.0	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		81		68-140			
<b>SB-18GW</b>	<b>15-04-1216-2-D</b>	<b>04/13/15 14:30</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/18/15 16:49</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		680		49		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		68-140			
<b>SB-19GW</b>	<b>15-04-1216-3-D</b>	<b>04/13/15 15:40</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/18/15 17:06</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		440		49		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		75		68-140			
<b>SB-20GW</b>	<b>15-04-1216-4-C</b>	<b>04/14/15 10:30</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/17/15</b>	<b>04/22/15 12:38</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		25000		620		5.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		77		68-140			
<b>SB-21GW</b>	<b>15-04-1216-5-D</b>	<b>04/14/15 13:30</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/21/15 15:14</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		530000		5200		100	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		129		68-140			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-22GW</b>	<b>15-04-1216-6-D</b>	<b>04/14/15 16:00</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/20/15 15:47</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		51000		830		5.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		68-140			
<b>SB-23GW</b>	<b>15-04-1216-7-D</b>	<b>04/15/15 10:00</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/20/15 16:04</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		7800000		50000		500	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		112		68-140			
<b>SB-24GW</b>	<b>15-04-1216-8-D</b>	<b>04/15/15 12:00</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/20/15 16:23</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		44000		710		10.0	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		87		68-140			
<b>SB-25GW</b>	<b>15-04-1216-9-D</b>	<b>04/15/15 14:45</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/18/15 18:41</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		570		52		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		84		68-140			
<b>Method Blank</b>	<b>099-15-304-1013</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 45</b>	<b>04/17/15</b>	<b>04/18/15 15:33</b>	<b>150417B10S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		85		68-140			

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-17d5.5</b>	<b>15-04-1216-10-A</b>	<b>04/13/15 10:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 22:00</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		250		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-17d19.5</b>	<b>15-04-1216-11-A</b>	<b>04/13/15 10:40</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 22:18</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		73		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		95		61-145			
<b>SB-17d22</b>	<b>15-04-1216-12-A</b>	<b>04/13/15 10:50</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 22:35</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		130		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			
<b>SB-17d28</b>	<b>15-04-1216-13-A</b>	<b>04/13/15 11:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 22:53</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-18d5.5</b>	<b>15-04-1216-14-A</b>	<b>04/13/15 13:30</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 23:11</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		110		5.1		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-18d17.5</b>	<b>15-04-1216-15-A</b>	<b>04/13/15 13:40</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 23:28</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		29		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-18d19</b>	<b>15-04-1216-16-A</b>	<b>04/13/15 13:45</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 23:46</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-18d24</b>	<b>15-04-1216-17-A</b>	<b>04/13/15 14:00</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 00:03</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-19d5.5</b>	<b>15-04-1216-18-A</b>	<b>04/13/15 15:25</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 00:21</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		240		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-19d16</b>	<b>15-04-1216-19-A</b>	<b>04/13/15 15:40</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 00:38</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		23		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-19d22.5</b>	<b>15-04-1216-20-A</b>	<b>04/13/15 15:45</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 01:12</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-19d29</b>	<b>15-04-1216-21-A</b>	<b>04/13/15 15:55</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 01:30</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		350		5.1		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-19d34</b>	<b>15-04-1216-22-A</b>	<b>04/13/15 16:05</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 01:48</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		18		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-19d35</b>	<b>15-04-1216-23-A</b>	<b>04/13/15 16:10</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 02:06</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-20d5.5</b>	<b>15-04-1216-24-A</b>	<b>04/14/15 08:50</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 02:24</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		49		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			

Return to Contents

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Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-20d16</b>	<b>15-04-1216-25-A</b>	<b>04/14/15 09:10</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 02:41</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		53		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-20d19.5</b>	<b>15-04-1216-26-A</b>	<b>04/14/15 09:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 02:58</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-20d24</b>	<b>15-04-1216-27-A</b>	<b>04/14/15 09:30</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 03:16</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-20d32</b>	<b>15-04-1216-28-A</b>	<b>04/14/15 09:45</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 03:34</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		41		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-21d5.5</b>	<b>15-04-1216-29-A</b>	<b>04/14/15 11:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 03:52</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		76		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-21d19.5</b>	<b>15-04-1216-30-A</b>	<b>04/14/15 11:35</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 05:38</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-21d32</b>	<b>15-04-1216-31-A</b>	<b>04/14/15 12:00</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 05:56</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		5.2		5.1		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-21d35</b>	<b>15-04-1216-32-A</b>	<b>04/14/15 12:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 06:13</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>SB-22d5.5</b>	<b>15-04-1216-33-A</b>	<b>04/14/15 14:25</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 06:30</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>SB-22d15.5</b>	<b>15-04-1216-34-A</b>	<b>04/14/15 14:35</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 06:48</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		78		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-22d19.5</b>	<b>15-04-1216-35-A</b>	<b>04/14/15 14:40</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 07:06</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-22d29.5</b>	<b>15-04-1216-36-A</b>	<b>04/14/15 15:00</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 07:24</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		950		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			
<b>SB-22d35</b>	<b>15-04-1216-37-A</b>	<b>04/14/15 15:30</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 07:42</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		220		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-23d5.5</b>	<b>15-04-1216-38-A</b>	<b>04/15/15 09:00</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 08:00</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		35		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-23d15.5</b>	<b>15-04-1216-39-A</b>	<b>04/15/15 09:10</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 08:18</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		210		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-23d22.5</b>	<b>15-04-1216-40-A</b>	<b>04/15/15 09:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 08:53</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		260		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-23d25.5</b>	<b>15-04-1216-41-A</b>	<b>04/15/15 09:30</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 09:10</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		360		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-23d30.5</b>	<b>15-04-1216-42-A</b>	<b>04/15/15 09:40</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 09:28</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		5.5		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-23d35</b>	<b>15-04-1216-43-A</b>	<b>04/15/15 09:50</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 09:45</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		13		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-24d5.5</b>	<b>15-04-1216-44-A</b>	<b>04/15/15 10:30</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 10:04</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		7.9		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-24d19.5</b>	<b>15-04-1216-45-A</b>	<b>04/15/15 10:50</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 10:21</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		87		61-145			
<b>SB-24d21</b>	<b>15-04-1216-46-A</b>	<b>04/15/15 10:55</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 10:39</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		18		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-24d25</b>	<b>15-04-1216-47-A</b>	<b>04/15/15 11:10</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 10:57</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		31		4.9		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-24d35</b>	<b>15-04-1216-48-A</b>	<b>04/15/15 11:45</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 11:14</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.1		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-25d5.5</b>	<b>15-04-1216-49-A</b>	<b>04/15/15 13:20</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 11:31</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		86		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-25d15.5</b>	<b>15-04-1216-50-A</b>	<b>04/15/15 13:30</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 19:21</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		94		61-145			
<b>SB-25d22</b>	<b>15-04-1216-51-A</b>	<b>04/15/15 13:45</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 19:38</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			
<b>SB-25d26</b>	<b>15-04-1216-52-A</b>	<b>04/15/15 14:00</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 19:56</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-25d35</b>	<b>15-04-1216-53-A</b>	<b>04/15/15 14:25</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 20:14</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>Method Blank</b>	<b>099-15-422-1736</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 20:50</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		99		61-145			

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-15-422-1737</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 04:27</b>	<b>150418B03S</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	92	61-145	

<b>Method Blank</b>	<b>099-15-422-1735</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 17:35</b>	<b>150418B04S</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	97	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d5.5	15-04-1216-10-A	04/13/15 10:20	Solid	ICP 7300	04/20/15	04/21/15 15:15	150420L06
Parameter	Result	RL	DF	Qualifiers			
Antimony	ND	0.743	0.990				
Arsenic	5.57	0.743	0.990				
Barium	143	0.495	0.990				
Beryllium	0.345	0.248	0.990				
Cadmium	ND	0.495	0.990				
Chromium	34.9	0.248	0.990				
Cobalt	7.73	0.248	0.990				
Copper	30.7	0.495	0.990	B			
Lead	55.8	0.495	0.990				
Molybdenum	0.908	0.248	0.990				
Nickel	51.8	0.248	0.990				
Selenium	ND	0.743	0.990				
Silver	ND	0.248	0.990				
Thallium	ND	0.743	0.990				
Vanadium	37.0	0.248	0.990				
Zinc	88.7	0.990	0.990	B			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d19.5	15-04-1216-11-A	04/13/15 10:40	Solid	ICP 7300	04/20/15	04/21/15 15:16	150420L06
Parameter		Result	RL		DF		Qualifiers
Antimony		ND	0.754		1.01		
Arsenic		4.06	0.754		1.01		
Barium		106	0.503		1.01		
Beryllium		ND	0.251		1.01		
Cadmium		ND	0.503		1.01		
Chromium		27.6	0.251		1.01		
Cobalt		6.24	0.251		1.01		
Copper		9.93	0.503		1.01		B
Lead		5.94	0.503		1.01		
Molybdenum		ND	0.251		1.01		
Nickel		30.6	0.251		1.01		
Selenium		ND	0.754		1.01		
Silver		ND	0.251		1.01		
Thallium		ND	0.754		1.01		
Vanadium		19.0	0.251		1.01		
Zinc		26.7	1.01		1.01		B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d22	15-04-1216-12-A	04/13/15 10:50	Solid	ICP 7300	04/20/15	04/21/15 15:17	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	4.90	0.721	0.962	
Barium	118	0.481	0.962	
Beryllium	0.270	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	45.9	0.240	0.962	
Cobalt	13.3	0.240	0.962	
Copper	21.2	0.481	0.962	B
Lead	4.40	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	61.6	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	42.8	0.240	0.962	
Zinc	42.3	0.962	0.962	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d28	15-04-1216-13-A	04/13/15 11:20	Solid	ICP 7300	04/20/15	04/21/15 15:19	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Arsenic	5.36	0.789	1.05	
Barium	174	0.526	1.05	
Beryllium	0.272	0.263	1.05	
Cadmium	ND	0.526	1.05	
Chromium	26.5	0.263	1.05	
Cobalt	6.11	0.263	1.05	
Copper	13.0	0.526	1.05	B
Lead	4.51	0.526	1.05	
Molybdenum	0.415	0.263	1.05	
Nickel	29.8	0.263	1.05	
Selenium	ND	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	27.6	0.263	1.05	
Zinc	32.5	1.05	1.05	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d5.5	15-04-1216-14-A	04/13/15 13:30	Solid	ICP 7300	04/20/15	04/21/15 15:20	150420L06
Parameter	Result	RL	DF	Qualifiers			
Antimony	ND	0.773	1.03				
Arsenic	6.08	0.773	1.03				
Barium	114	0.515	1.03				
Beryllium	0.282	0.258	1.03				
Cadmium	ND	0.515	1.03				
Chromium	25.0	0.258	1.03				
Cobalt	6.54	0.258	1.03				
Copper	29.3	0.515	1.03		B		
Lead	34.1	0.515	1.03				
Molybdenum	0.768	0.258	1.03				
Nickel	26.8	0.258	1.03				
Selenium	ND	0.773	1.03				
Silver	ND	0.258	1.03				
Thallium	ND	0.773	1.03				
Vanadium	28.0	0.258	1.03				
Zinc	53.4	1.03	1.03		B		


  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d17.5	15-04-1216-15-A	04/13/15 13:40	Solid	ICP 7300	04/20/15	04/21/15 15:21	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	3.19	0.714	0.952	
Barium	100	0.476	0.952	
Beryllium	ND	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	20.4	0.238	0.952	
Cobalt	5.40	0.238	0.952	
Copper	15.9	0.476	0.952	B
Lead	22.3	0.476	0.952	
Molybdenum	0.454	0.238	0.952	
Nickel	28.7	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	20.1	0.238	0.952	
Zinc	43.3	0.952	0.952	B


  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d19	15-04-1216-16-A	04/13/15 13:45	Solid	ICP 7300	04/20/15	04/21/15 15:22	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Arsenic	5.01	0.789	1.05	
Barium	138	0.526	1.05	
Beryllium	0.276	0.263	1.05	
Cadmium	ND	0.526	1.05	
Chromium	28.0	0.263	1.05	
Cobalt	7.70	0.263	1.05	
Copper	13.5	0.526	1.05	B
Lead	5.09	0.526	1.05	
Molybdenum	0.419	0.263	1.05	
Nickel	34.6	0.263	1.05	
Selenium	ND	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	27.7	0.263	1.05	
Zinc	34.5	1.05	1.05	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d24	15-04-1216-17-A	04/13/15 14:00	Solid	ICP 7300	04/20/15	04/21/15 15:24	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	5.63	0.750	1.00	
Barium	151	0.500	1.00	
Beryllium	0.372	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	37.4	0.250	1.00	
Cobalt	10.9	0.250	1.00	
Copper	23.8	0.500	1.00	B
Lead	5.46	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	47.5	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	34.2	0.250	1.00	
Zinc	47.6	1.00	1.00	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d5.5	15-04-1216-18-A	04/13/15 15:25	Solid	ICP 7300	04/20/15	04/21/15 15:25	150420L06
Parameter		Result	RL	DF		Qualifiers	
Antimony		ND	0.735	0.980			
Arsenic		8.37	0.735	0.980			
Barium		142	0.490	0.980			
Beryllium		0.410	0.245	0.980			
Cadmium		ND	0.490	0.980			
Chromium		34.3	0.245	0.980			
Cobalt		8.69	0.245	0.980			
Copper		36.4	0.490	0.980			B
Lead		61.9	0.490	0.980			
Molybdenum		0.855	0.245	0.980			
Nickel		41.1	0.245	0.980			
Selenium		ND	0.735	0.980			
Silver		ND	0.245	0.980			
Thallium		ND	0.735	0.980			
Vanadium		35.5	0.245	0.980			
Zinc		71.2	0.980	0.980			B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d16	15-04-1216-19-A	04/13/15 15:40	Solid	ICP 7300	04/20/15	04/21/15 15:31	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	4.39	0.714	0.952	
Barium	68.0	0.476	0.952	
Beryllium	ND	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	23.1	0.238	0.952	
Cobalt	7.19	0.238	0.952	
Copper	14.9	0.476	0.952	B
Lead	14.2	0.476	0.952	
Molybdenum	ND	0.238	0.952	
Nickel	40.5	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	20.9	0.238	0.952	
Zinc	42.3	0.952	0.952	B


  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d22.5	15-04-1216-20-A	04/13/15 15:45	Solid	ICP 7300	04/20/15	04/21/15 15:32	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Arsenic	5.45	0.785	1.05	
Barium	113	0.524	1.05	
Beryllium	0.313	0.262	1.05	
Cadmium	ND	0.524	1.05	
Chromium	28.3	0.262	1.05	
Cobalt	11.7	0.262	1.05	
Copper	13.7	0.524	1.05	B
Lead	6.25	0.524	1.05	
Molybdenum	ND	0.262	1.05	
Nickel	40.1	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	30.3	0.262	1.05	
Zinc	33.4	1.05	1.05	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d29	15-04-1216-21-A	04/13/15 15:55	Solid	ICP 7300	04/20/15	04/21/15 15:33	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	2.58	0.758	1.01	
Barium	181	0.505	1.01	
Beryllium	0.308	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	27.9	0.253	1.01	
Cobalt	12.8	0.253	1.01	
Copper	13.1	0.505	1.01	B
Lead	4.48	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	40.9	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	29.0	0.253	1.01	
Zinc	34.8	1.01	1.01	B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d34	15-04-1216-22-A	04/13/15 16:05	Solid	ICP 7300	04/20/15	04/21/15 15:34	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	2.92	0.750	1.00	
Barium	134	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	20.0	0.250	1.00	
Cobalt	6.32	0.250	1.00	
Copper	17.5	0.500	1.00	B
Lead	4.61	0.500	1.00	
Molybdenum	0.504	0.250	1.00	
Nickel	33.1	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	22.8	0.250	1.00	
Zinc	26.3	1.00	1.00	B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d35	15-04-1216-23-A	04/13/15 16:10	Solid	ICP 7300	04/20/15	04/21/15 15:36	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	1.40	0.728	0.971	
Barium	183	0.485	0.971	
Beryllium	0.547	0.243	0.971	
Cadmium	0.942	0.485	0.971	
Chromium	27.1	0.243	0.971	
Cobalt	118	0.243	0.971	
Copper	15.6	0.485	0.971	B
Lead	21.9	0.485	0.971	
Molybdenum	0.698	0.243	0.971	
Nickel	107	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	17.2	0.243	0.971	
Zinc	33.3	0.971	0.971	B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d5.5	15-04-1216-24-A	04/14/15 08:50	Solid	ICP 7300	04/20/15	04/21/15 15:37	150420L06
Parameter	Result	RL	DF	Qualifiers			
Antimony	ND	0.758	1.01				
Arsenic	8.44	0.758	1.01				
Barium	176	0.505	1.01				
Beryllium	0.329	0.253	1.01				
Cadmium	ND	0.505	1.01				
Chromium	37.6	0.253	1.01				
Cobalt	9.30	0.253	1.01				
Copper	34.2	0.505	1.01		B		
Lead	86.1	0.505	1.01				
Molybdenum	1.17	0.253	1.01				
Nickel	45.6	0.253	1.01				
Selenium	ND	0.758	1.01				
Silver	ND	0.253	1.01				
Thallium	ND	0.758	1.01				
Vanadium	39.2	0.253	1.01				
Zinc	93.9	1.01	1.01		B		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d16	15-04-1216-25-A	04/14/15 09:10	Solid	ICP 7300	04/20/15	04/21/15 15:38	150420L06
Parameter	Result	RL	DF	Qualifiers			
Antimony	ND	0.718	0.957				
Arsenic	6.10	0.718	0.957				
Barium	144	0.478	0.957				
Beryllium	0.283	0.239	0.957				
Cadmium	ND	0.478	0.957				
Chromium	25.2	0.239	0.957				
Cobalt	5.92	0.239	0.957				
Copper	20.4	0.478	0.957	B			
Lead	16.0	0.478	0.957				
Molybdenum	0.730	0.239	0.957				
Nickel	28.3	0.239	0.957				
Selenium	ND	0.718	0.957				
Silver	ND	0.239	0.957				
Thallium	ND	0.718	0.957				
Vanadium	29.4	0.239	0.957				
Zinc	61.3	0.957	0.957	B			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group	Date Received:	04/16/15
11050 White Rock Rd. Suite# 110	Work Order:	15-04-1216
Rancho Cordova, CA 95670-6001	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d19.5	15-04-1216-26-A	04/14/15 09:20	Solid	ICP 7300	04/20/15	04/21/15 15:39	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	2.69	0.735	0.980	
Barium	118	0.490	0.980	
Beryllium	0.280	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	22.6	0.245	0.980	
Cobalt	8.60	0.245	0.980	
Copper	10.2	0.490	0.980	B
Lead	5.20	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	39.9	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	17.5	0.245	0.980	
Zinc	28.0	0.980	0.980	B

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d24	15-04-1216-27-A	04/14/15 09:30	Solid	ICP 7300	04/20/15	04/21/15 15:48	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	5.96	0.758	1.01	
Barium	154	0.505	1.01	
Beryllium	0.334	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	35.6	0.253	1.01	
Cobalt	12.3	0.253	1.01	
Copper	17.2	0.505	1.01	B
Lead	5.70	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	52.7	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	40.6	0.253	1.01	
Zinc	40.9	1.01	1.01	B


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d32	15-04-1216-28-A	04/14/15 09:45	Solid	ICP 7300	04/20/15	04/21/15 15:49	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	5.79	0.721	0.962	
Barium	241	0.481	0.962	
Beryllium	0.305	0.240	0.962	
Cadmium	0.507	0.481	0.962	
Chromium	29.5	0.240	0.962	
Cobalt	8.28	0.240	0.962	
Copper	13.9	0.481	0.962	B
Lead	5.98	0.481	0.962	
Molybdenum	0.454	0.240	0.962	
Nickel	43.6	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	29.2	0.240	0.962	
Zinc	37.8	0.962	0.962	B


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d5.5	15-04-1216-29-A	04/14/15 11:20	Solid	ICP 7300	04/20/15	04/21/15 15:50	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	5.12	0.769	1.03	
Barium	167	0.513	1.03	
Beryllium	0.485	0.256	1.03	
Cadmium	ND	0.513	1.03	
Chromium	56.6	0.256	1.03	
Cobalt	19.0	0.256	1.03	
Copper	34.2	0.513	1.03	B
Lead	8.19	0.513	1.03	
Molybdenum	ND	0.256	1.03	
Nickel	85.9	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	71.3	0.256	1.03	
Zinc	46.5	1.03	1.03	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d19.5	15-04-1216-30-A	04/14/15 11:35	Solid	ICP 7300	04/20/15	04/21/15 15:52	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	5.55	0.714	0.952	
Barium	117	0.476	0.952	
Beryllium	0.352	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	22.0	0.238	0.952	
Cobalt	7.28	0.238	0.952	
Copper	13.4	0.476	0.952	
Lead	6.44	0.476	0.952	
Molybdenum	ND	0.238	0.952	
Nickel	30.8	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	29.2	0.238	0.952	
Zinc	41.6	0.952	0.952	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d32	15-04-1216-31-A	04/14/15 12:00	Solid	ICP 7300	04/20/15	04/21/15 15:53	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	5.09	0.765	1.02	
Barium	151	0.510	1.02	
Beryllium	0.293	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	34.2	0.255	1.02	
Cobalt	9.42	0.255	1.02	
Copper	17.2	0.510	1.02	
Lead	5.04	0.510	1.02	
Molybdenum	0.505	0.255	1.02	
Nickel	40.1	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	31.2	0.255	1.02	
Zinc	41.4	1.02	1.02	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d35	15-04-1216-32-A	04/14/15 12:20	Solid	ICP 7300	04/20/15	04/21/15 15:54	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	3.94	0.781	1.04	
Barium	140	0.521	1.04	
Beryllium	0.286	0.260	1.04	
Cadmium	ND	0.521	1.04	
Chromium	33.5	0.260	1.04	
Cobalt	10.6	0.260	1.04	
Copper	15.6	0.521	1.04	
Lead	4.48	0.521	1.04	
Molybdenum	ND	0.260	1.04	
Nickel	40.5	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	38.9	0.260	1.04	
Zinc	41.7	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d5.5	15-04-1216-33-A	04/14/15 14:25	Solid	ICP 7300	04/20/15	04/21/15 15:55	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	2.23	0.728	0.971	
Barium	110	0.485	0.971	
Beryllium	0.283	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	26.2	0.243	0.971	
Cobalt	19.5	0.243	0.971	
Copper	41.5	0.485	0.971	
Lead	4.46	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	38.7	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	80.0	0.243	0.971	
Zinc	25.8	0.971	0.971	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d15.5	15-04-1216-34-A	04/14/15 14:35	Solid	ICP 7300	04/20/15	04/21/15 15:56	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Arsenic	6.87	0.789	1.05	
Barium	171	0.526	1.05	
Beryllium	0.694	0.263	1.05	
Cadmium	ND	0.526	1.05	
Chromium	39.6	0.263	1.05	
Cobalt	14.6	0.263	1.05	
Copper	25.0	0.526	1.05	
Lead	10.7	0.526	1.05	
Molybdenum	ND	0.263	1.05	
Nickel	57.7	0.263	1.05	
Selenium	ND	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	45.2	0.263	1.05	
Zinc	45.6	1.05	1.05	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d19.5	15-04-1216-35-A	04/14/15 14:40	Solid	ICP 7300	04/20/15	04/21/15 15:57	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	3.28	0.750	1.00	
Barium	165	0.500	1.00	
Beryllium	0.331	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	28.1	0.250	1.00	
Cobalt	10.1	0.250	1.00	
Copper	17.4	0.500	1.00	
Lead	6.76	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	52.7	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	29.5	0.250	1.00	
Zinc	52.7	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d29.5	15-04-1216-36-A	04/14/15 15:00	Solid	ICP 7300	04/20/15	04/21/15 15:58	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Arsenic	1.92	0.718	0.957	
Barium	72.7	0.478	0.957	
Beryllium	ND	0.239	0.957	
Cadmium	ND	0.478	0.957	
Chromium	16.0	0.239	0.957	
Cobalt	7.07	0.239	0.957	
Copper	9.62	0.478	0.957	
Lead	5.75	0.478	0.957	
Molybdenum	ND	0.239	0.957	
Nickel	21.0	0.239	0.957	
Selenium	ND	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	21.9	0.239	0.957	
Zinc	25.5	0.957	0.957	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d35	15-04-1216-37-A	04/14/15 15:30	Solid	ICP 7300	04/20/15	04/21/15 16:04	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	5.42	0.765	1.02	
Barium	114	0.510	1.02	
Beryllium	0.281	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	31.8	0.255	1.02	
Cobalt	8.36	0.255	1.02	
Copper	15.0	0.510	1.02	
Lead	5.93	0.510	1.02	
Molybdenum	0.280	0.255	1.02	
Nickel	31.4	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	32.7	0.255	1.02	
Zinc	32.6	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d5.5	15-04-1216-38-A	04/15/15 09:00	Solid	ICP 7300	04/20/15	04/21/15 16:05	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.777	1.04	
Arsenic	5.38	0.777	1.04	
Barium	178	0.518	1.04	
Beryllium	0.379	0.259	1.04	
Cadmium	ND	0.518	1.04	
Chromium	33.5	0.259	1.04	
Cobalt	21.2	0.259	1.04	
Copper	37.7	0.518	1.04	
Lead	63.0	0.518	1.04	
Molybdenum	ND	0.259	1.04	
Nickel	70.2	0.259	1.04	
Selenium	ND	0.777	1.04	
Silver	ND	0.259	1.04	
Thallium	ND	0.777	1.04	
Vanadium	72.2	0.259	1.04	
Zinc	91.0	1.04	1.04	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d15.5	15-04-1216-39-A	04/15/15 09:10	Solid	ICP 7300	04/20/15	04/21/15 16:06	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	5.48	0.750	1.00	
Barium	148	0.500	1.00	
Beryllium	0.434	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	34.3	0.250	1.00	
Cobalt	10.3	0.250	1.00	
Copper	17.3	0.500	1.00	
Lead	6.59	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	48.6	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	38.1	0.250	1.00	
Zinc	43.4	1.00	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d22.5	15-04-1216-40-A	04/15/15 09:20	Solid	ICP 7300	04/20/15	04/21/15 16:08	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	2.41	0.714	0.952	
Barium	147	0.476	0.952	
Beryllium	0.315	0.238	0.952	
Cadmium	ND	0.476	0.952	
Chromium	21.4	0.238	0.952	
Cobalt	7.14	0.238	0.952	
Copper	13.7	0.476	0.952	
Lead	6.88	0.476	0.952	
Molybdenum	ND	0.238	0.952	
Nickel	26.2	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	28.7	0.238	0.952	
Zinc	47.3	0.952	0.952	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d25.5	15-04-1216-41-A	04/15/15 09:30	Solid	ICP 7300	04/20/15	04/21/15 16:09	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Arsenic	4.40	0.773	1.03	
Barium	124	0.515	1.03	
Beryllium	0.301	0.258	1.03	
Cadmium	ND	0.515	1.03	
Chromium	19.5	0.258	1.03	
Cobalt	7.77	0.258	1.03	
Copper	12.2	0.515	1.03	
Lead	6.48	0.515	1.03	
Molybdenum	ND	0.258	1.03	
Nickel	28.3	0.258	1.03	
Selenium	ND	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	26.8	0.258	1.03	
Zinc	39.3	1.03	1.03	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d30.5	15-04-1216-42-A	04/15/15 09:40	Solid	ICP 7300	04/20/15	04/21/15 16:10	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	4.94	0.732	0.976	
Barium	105	0.488	0.976	
Beryllium	0.319	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	23.2	0.244	0.976	
Cobalt	8.43	0.244	0.976	
Copper	12.8	0.488	0.976	
Lead	6.17	0.488	0.976	
Molybdenum	0.255	0.244	0.976	
Nickel	26.6	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	27.5	0.244	0.976	
Zinc	35.6	0.976	0.976	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d35	15-04-1216-43-A	04/15/15 09:50	Solid	ICP 7300	04/20/15	04/21/15 16:11	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	3.91	0.735	0.980	
Barium	133	0.490	0.980	
Beryllium	0.302	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	25.4	0.245	0.980	
Cobalt	8.21	0.245	0.980	
Copper	13.3	0.490	0.980	
Lead	5.46	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	34.9	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	26.0	0.245	0.980	
Zinc	37.8	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d5.5	15-04-1216-44-A	04/15/15 10:30	Solid	ICP 7300	04/20/15	04/21/15 16:12	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	3.43	0.769	1.03	
Barium	153	0.513	1.03	
Beryllium	0.350	0.256	1.03	
Cadmium	ND	0.513	1.03	
Chromium	31.8	0.256	1.03	
Cobalt	23.2	0.256	1.03	
Copper	60.2	0.513	1.03	
Lead	4.84	0.513	1.03	
Molybdenum	ND	0.256	1.03	
Nickel	43.4	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	114	0.256	1.03	
Zinc	39.8	1.03	1.03	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d19.5	15-04-1216-45-A	04/15/15 10:50	Solid	ICP 7300	04/20/15	04/21/15 16:13	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	4.41	0.761	1.02	
Barium	150	0.508	1.02	
Beryllium	0.414	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	26.5	0.254	1.02	
Cobalt	7.61	0.254	1.02	
Copper	19.3	0.508	1.02	
Lead	5.76	0.508	1.02	
Molybdenum	ND	0.254	1.02	
Nickel	49.6	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	32.6	0.254	1.02	
Zinc	43.2	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d21	15-04-1216-46-A	04/15/15 10:55	Solid	ICP 7300	04/20/15	04/21/15 16:14	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Arsenic	10.6	0.789	1.05	
Barium	212	0.526	1.05	
Beryllium	0.452	0.263	1.05	
Cadmium	ND	0.526	1.05	
Chromium	36.4	0.263	1.05	
Cobalt	11.1	0.263	1.05	
Copper	24.0	0.526	1.05	
Lead	9.96	0.526	1.05	
Molybdenum	ND	0.263	1.05	
Nickel	51.7	0.263	1.05	
Selenium	ND	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	48.5	0.263	1.05	
Zinc	56.3	1.05	1.05	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d25	15-04-1216-47-A	04/15/15 11:10	Solid	ICP 7300	04/20/15	04/21/15 16:20	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	4.64	0.743	0.990	
Barium	161	0.495	0.990	
Beryllium	0.335	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	31.7	0.248	0.990	
Cobalt	6.51	0.248	0.990	
Copper	21.7	0.495	0.990	
Lead	10.5	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	24.5	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	23.2	0.248	0.990	
Zinc	36.5	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d35	15-04-1216-48-A	04/15/15 11:45	Solid	ICP 7300	04/20/15	04/21/15 16:22	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	3.47	0.765	1.02	
Barium	128	0.510	1.02	
Beryllium	0.330	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	24.8	0.255	1.02	
Cobalt	8.35	0.255	1.02	
Copper	11.8	0.510	1.02	
Lead	6.00	0.510	1.02	
Molybdenum	ND	0.255	1.02	
Nickel	34.2	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	22.6	0.255	1.02	
Zinc	34.2	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d5.5	15-04-1216-49-A	04/15/15 13:20	Solid	ICP 7300	04/20/15	04/21/15 16:23	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.30	0.743	0.990	
Barium	182	0.495	0.990	
Beryllium	0.457	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	45.5	0.248	0.990	
Cobalt	22.7	0.248	0.990	
Copper	29.8	0.495	0.990	
Lead	7.92	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	53.7	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	94.1	0.248	0.990	
Zinc	34.8	0.990	0.990	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d15.5	15-04-1216-50-A	04/15/15 13:30	Solid	ICP 7300	04/20/15	04/21/15 16:24	150420L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	6.33	0.750	1.00	
Barium	163	0.500	1.00	
Beryllium	0.372	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	35.5	0.250	1.00	
Cobalt	10.3	0.250	1.00	
Copper	17.6	0.500	1.00	
Lead	6.62	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	46.0	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	38.4	0.250	1.00	
Zinc	50.7	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d22	15-04-1216-51-A	04/15/15 13:45	Solid	ICP 7300	04/20/15	04/21/15 16:25	150420L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	4.29	0.743	0.990	
Barium	118	0.495	0.990	
Beryllium	0.367	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	29.9	0.248	0.990	
Cobalt	10.8	0.248	0.990	
Copper	15.1	0.495	0.990	
Lead	5.66	0.495	0.990	
Molybdenum	0.530	0.248	0.990	
Nickel	41.4	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	34.9	0.248	0.990	
Zinc	42.3	0.990	0.990	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d26	15-04-1216-52-A	04/15/15 14:00	Solid	ICP 7300	04/20/15	04/21/15 16:26	150420L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.777	1.04	
Arsenic	7.50	0.777	1.04	
Barium	157	0.518	1.04	
Beryllium	0.352	0.259	1.04	
Cadmium	ND	0.518	1.04	
Chromium	36.3	0.259	1.04	
Cobalt	9.19	0.259	1.04	
Copper	72.3	0.518	1.04	
Lead	7.37	0.518	1.04	
Molybdenum	0.332	0.259	1.04	
Nickel	35.6	0.259	1.04	
Selenium	ND	0.777	1.04	
Silver	ND	0.259	1.04	
Thallium	ND	0.777	1.04	
Vanadium	35.8	0.259	1.04	
Zinc	47.2	1.04	1.04	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d35	15-04-1216-53-A	04/15/15 14:25	Solid	ICP 7300	04/20/15	04/21/15 16:27	150420L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Arsenic	4.09	0.773	1.03	
Barium	124	0.515	1.03	
Beryllium	0.273	0.258	1.03	
Cadmium	ND	0.515	1.03	
Chromium	28.2	0.258	1.03	
Cobalt	8.49	0.258	1.03	
Copper	12.7	0.515	1.03	
Lead	4.70	0.515	1.03	
Molybdenum	0.262	0.258	1.03	
Nickel	35.4	0.258	1.03	
Selenium	ND	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	28.3	0.258	1.03	
Zinc	37.6	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20838	N/A	Solid	ICP 7300	04/20/15	04/21/15 18:10	150420L04

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	ND	0.739	0.985	
Barium	ND	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	ND	0.246	0.985	
Cobalt	ND	0.246	0.985	
Copper	ND	0.493	0.985	
Lead	ND	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	ND	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	ND	0.246	0.985	
Zinc	ND	0.985	0.985	


  
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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20836	N/A	Solid	ICP 7300	04/20/15	04/21/15 14:54	150420L06

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	ND	0.735	0.980	
Barium	ND	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	ND	0.245	0.980	
Cobalt	ND	0.245	0.980	
Copper	0.558	0.490	0.980	
Lead	ND	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	ND	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	ND	0.245	0.980	
Zinc	1.50	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20837	N/A	Solid	ICP 7300	04/20/15	04/23/15 18:20	150420L07

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-17d5.5</b>	<b>15-04-1216-10-A</b>	<b>04/13/15 10:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:29</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-17d19.5</b>	<b>15-04-1216-11-A</b>	<b>04/13/15 10:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:36</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-17d22</b>	<b>15-04-1216-12-A</b>	<b>04/13/15 10:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:38</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.106		0.0877		1.00	
<b>SB-17d28</b>	<b>15-04-1216-13-A</b>	<b>04/13/15 11:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:40</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-18d5.5</b>	<b>15-04-1216-14-A</b>	<b>04/13/15 13:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:42</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0877		1.00	
<b>SB-18d17.5</b>	<b>15-04-1216-15-A</b>	<b>04/13/15 13:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:44</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-18d19</b>	<b>15-04-1216-16-A</b>	<b>04/13/15 13:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:47</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-18d24</b>	<b>15-04-1216-17-A</b>	<b>04/13/15 14:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:49</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-19d5.5</b>	<b>15-04-1216-18-A</b>	<b>04/13/15 15:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:51</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-19d16</b>	<b>15-04-1216-19-A</b>	<b>04/13/15 15:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:53</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-19d22.5</b>	<b>15-04-1216-20-A</b>	<b>04/13/15 15:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:56</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-19d29</b>	<b>15-04-1216-21-A</b>	<b>04/13/15 15:55</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:16</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-19d34</b>	<b>15-04-1216-22-A</b>	<b>04/13/15 16:05</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:19</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-19d35</b>	<b>15-04-1216-23-A</b>	<b>04/13/15 16:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:21</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-20d5.5</b>	<b>15-04-1216-24-A</b>	<b>04/14/15 08:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:23</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-20d16</b>	<b>15-04-1216-25-A</b>	<b>04/14/15 09:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:30</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-20d19.5</b>	<b>15-04-1216-26-A</b>	<b>04/14/15 09:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:32</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-20d24</b>	<b>15-04-1216-27-A</b>	<b>04/14/15 09:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:34</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.145		0.0833		1.00	
<b>SB-20d32</b>	<b>15-04-1216-28-A</b>	<b>04/14/15 09:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:36</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.135		0.0806		1.00	
<b>SB-21d5.5</b>	<b>15-04-1216-29-A</b>	<b>04/14/15 11:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:38</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-21d19.5</b>	<b>15-04-1216-30-A</b>	<b>04/14/15 11:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:41</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-21d32</b>	<b>15-04-1216-31-A</b>	<b>04/14/15 12:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:43</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-21d35</b>	<b>15-04-1216-32-A</b>	<b>04/14/15 12:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:45</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-22d5.5</b>	<b>15-04-1216-33-A</b>	<b>04/14/15 14:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:47</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.104		0.0820		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-22d15.5</b>	<b>15-04-1216-34-A</b>	<b>04/14/15 14:35</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 22:50</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-22d19.5</b>	<b>15-04-1216-35-A</b>	<b>04/14/15 14:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:21</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0812		0.0806		1.00	
<b>SB-22d29.5</b>	<b>15-04-1216-36-A</b>	<b>04/14/15 15:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:23</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-22d35</b>	<b>15-04-1216-37-A</b>	<b>04/14/15 15:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:25</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0877		1.00	
<b>SB-23d5.5</b>	<b>15-04-1216-38-A</b>	<b>04/15/15 09:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:28</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0919		0.0794		1.00	
<b>SB-23d15.5</b>	<b>15-04-1216-39-A</b>	<b>04/15/15 09:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:30</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0923		0.0877		1.00	
<b>SB-23d22.5</b>	<b>15-04-1216-40-A</b>	<b>04/15/15 09:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:32</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-23d25.5</b>	<b>15-04-1216-41-A</b>	<b>04/15/15 09:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:34</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-23d30.5</b>	<b>15-04-1216-42-A</b>	<b>04/15/15 09:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:36</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0847		1.00	
<b>SB-23d35</b>	<b>15-04-1216-43-A</b>	<b>04/15/15 09:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:39</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.136		0.0847		1.00	
<b>SB-24d5.5</b>	<b>15-04-1216-44-A</b>	<b>04/15/15 10:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:45</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.167		0.0847		1.00	
<b>SB-24d19.5</b>	<b>15-04-1216-45-A</b>	<b>04/15/15 10:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:47</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-24d21</b>	<b>15-04-1216-46-A</b>	<b>04/15/15 10:55</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:50</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.151		0.0847		1.00	
<b>SB-24d25</b>	<b>15-04-1216-47-A</b>	<b>04/15/15 11:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:52</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-24d35</b>	<b>15-04-1216-48-A</b>	<b>04/15/15 11:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:54</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-25d5.5</b>	<b>15-04-1216-49-A</b>	<b>04/15/15 13:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:56</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.151		0.0847		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-25d15.5</b>	<b>15-04-1216-50-A</b>	<b>04/15/15 13:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:59</b>	<b>150421L04</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-25d22</b>	<b>15-04-1216-51-A</b>	<b>04/15/15 13:45</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 14:01</b>	<b>150421L04</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-25d26</b>	<b>15-04-1216-52-A</b>	<b>04/15/15 14:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 14:03</b>	<b>150421L04</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.130		0.0833		1.00	
<b>SB-25d35</b>	<b>15-04-1216-53-A</b>	<b>04/15/15 14:25</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 14:05</b>	<b>150421L04</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.108		0.0847		1.00	
<b>Method Blank</b>	<b>099-16-272-1175</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 19:12</b>	<b>150421L04</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>Method Blank</b>	<b>099-16-272-1176</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:11</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>Method Blank</b>	<b>099-16-272-1177</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:13</b>	<b>150421L06</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17GW	15-04-1216-1-A	04/13/15 11:45	Aqueous	GC/MS O	04/23/15	04/23/15 20:38	150423L009

Parameter	Result	RL	DF	Qualifiers
Benzene	1600	50	100	
1,2-Dibromoethane	ND	100	100	
1,2-Dichloroethane	ND	50	100	
Ethylbenzene	3200	100	100	
Toluene	7500	100	100	
p/m-Xylene	14000	100	100	
o-Xylene	5800	100	100	
Methyl-t-Butyl Ether (MTBE)	110	100	100	
Tert-Butyl Alcohol (TBA)	ND	1000	100	
Diisopropyl Ether (DIPE)	ND	200	100	
Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Ethanol	ND	10000	100	
TPPH	99000	5000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	110	78-126		
1,2-Dichloroethane-d4	111	75-135		
Toluene-d8	98	80-120		
Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	100	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18GW	15-04-1216-2-A	04/13/15 14:30	Aqueous	GC/MS O	04/23/15	04/23/15 19:40	150423L009

Parameter	Result	RL	DF	Qualifiers
Benzene	2.2	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	1.1	1.0	1.00	
Toluene	1.7	1.0	1.00	
p/m-Xylene	3.9	1.0	1.00	
o-Xylene	2.7	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	12	1.0	1.00	
Tert-Butyl Alcohol (TBA)	39	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	99	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	107	78-126		
1,2-Dichloroethane-d4	109	75-135		
Toluene-d8	99	80-120		
Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	94	80-120		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19GW	15-04-1216-3-A	04/13/15 15:40	Aqueous	GC/MS O	04/23/15	04/23/15 20:09	150423L009

Parameter	Result	RL	DF	Qualifiers
Benzene	0.70	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	1.1	1.0	1.00	
p/m-Xylene	2.2	1.0	1.00	
o-Xylene	1.2	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	7.6	1.0	1.00	
Tert-Butyl Alcohol (TBA)	16	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	280	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	108	78-126		
1,2-Dichloroethane-d4	109	75-135		
Toluene-d8	96	80-120		
Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	94	80-120		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20GW	15-04-1216-4-A	04/14/15 10:30	Aqueous	GC/MS O	04/23/15	04/24/15 00:03	150423L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	10	20.0	
1,2-Dibromoethane	ND	20	20.0	
1,2-Dichloroethane	ND	10	20.0	
Ethylbenzene	170	20	20.0	
Toluene	ND	20	20.0	
p/m-Xylene	620	20	20.0	
o-Xylene	ND	20	20.0	
Methyl-t-Butyl Ether (MTBE)	ND	20	20.0	
Tert-Butyl Alcohol (TBA)	ND	200	20.0	
Diisopropyl Ether (DIPE)	ND	40	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	40	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	40	20.0	
Ethanol	ND	2000	20.0	
TPPH	22000	1000	20.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	104	78-126		
1,2-Dichloroethane-d4	109	75-135		
Toluene-d8	97	80-120		
Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	97	80-120		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21GW	15-04-1216-5-A	04/14/15 13:30	Aqueous	GC/MS R	04/26/15	04/26/15 17:23	150426L011

Parameter	Result	RL	DF	Qualifiers
Benzene	320	120	250	
1,2-Dibromoethane	ND	250	250	
1,2-Dichloroethane	ND	120	250	
Ethylbenzene	12000	250	250	
Toluene	4800	250	250	
p/m-Xylene	49000	250	250	
o-Xylene	18000	250	250	
Methyl-t-Butyl Ether (MTBE)	370	250	250	
Tert-Butyl Alcohol (TBA)	ND	2500	250	
Diisopropyl Ether (DIPE)	ND	500	250	
Ethyl-t-Butyl Ether (ETBE)	ND	500	250	
Tert-Amyl-Methyl Ether (TAME)	ND	500	250	
Ethanol	ND	25000	250	
TPPH	510000	12000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	78-126		
1,2-Dichloroethane-d4	90	75-135		
Toluene-d8	101	80-120		
Toluene-d8-TPPH	103	88-112		
1,4-Bromofluorobenzene	104	80-120		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22GW	15-04-1216-6-B	04/14/15 16:00	Aqueous	GC/MS R	04/25/15	04/25/15 16:34	150425L020

Parameter	Result	RL	DF	Qualifiers
Benzene	11	5.0	10.0	
1,2-Dibromoethane	ND	10	10.0	
1,2-Dichloroethane	ND	5.0	10.0	
Ethylbenzene	160	10	10.0	
Toluene	ND	10	10.0	
p/m-Xylene	52	10	10.0	
o-Xylene	18	10	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	10.0	
Diisopropyl Ether (DIPE)	ND	20	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	10.0	
Ethanol	ND	1000	10.0	
TPPH	14000	500	10.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	95	78-126		
1,2-Dichloroethane-d4	103	75-135		
Toluene-d8	103	80-120		
Toluene-d8-TPPH	104	88-112		
1,4-Bromofluorobenzene	95	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23GW	15-04-1216-7-C	04/15/15 10:00	Aqueous	GC/MS R	04/25/15	04/26/15 07:25	150425L030

Parameter	Result	RL	DF	Qualifiers
Benzene	33000	500	1000	
1,2-Dibromoethane	ND	1000	1000	
1,2-Dichloroethane	ND	500	1000	
Ethylbenzene	9900	1000	1000	
Toluene	71000	1000	1000	
p/m-Xylene	41000	1000	1000	
o-Xylene	15000	1000	1000	
Methyl-t-Butyl Ether (MTBE)	16000	1000	1000	
Tert-Butyl Alcohol (TBA)	ND	10000	1000	
Diisopropyl Ether (DIPE)	ND	2000	1000	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	1000	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	1000	
Ethanol	ND	100000	1000	
TPPH	730000	50000	1000	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	78-126		
1,2-Dichloroethane-d4	104	75-135		
Toluene-d8	102	80-120		
Toluene-d8-TPPH	104	88-112		
1,4-Bromofluorobenzene	99	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24GW	15-04-1216-8-B	04/15/15 12:00	Aqueous	GC/MS R	04/25/15	04/25/15 17:30	150425L020

Parameter	Result	RL	DF	Qualifiers
Benzene	3000	25	50.0	
1,2-Dibromoethane	ND	50	50.0	
1,2-Dichloroethane	ND	25	50.0	
Ethylbenzene	2800	50	50.0	
Toluene	1900	50	50.0	
p/m-Xylene	8800	50	50.0	
o-Xylene	4500	50	50.0	
Methyl-t-Butyl Ether (MTBE)	1600	50	50.0	
Tert-Butyl Alcohol (TBA)	2500	500	50.0	
Diisopropyl Ether (DIPE)	ND	100	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	100	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	100	50.0	
Ethanol	ND	5000	50.0	
TPPH	130000	2500	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	78-126		
1,2-Dichloroethane-d4	103	75-135		
Toluene-d8	104	80-120		
Toluene-d8-TPPH	106	88-112		
1,4-Bromofluorobenzene	104	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25GW	15-04-1216-9-B	04/15/15 14:45	Aqueous	GC/MS R	04/25/15	04/25/15 17:58	150425L020

Parameter	Result	RL	DF	Qualifiers
Benzene	39	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	13	1.0	1.00	
Toluene	51	1.0	1.00	
p/m-Xylene	49	1.0	1.00	
o-Xylene	22	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	6.8	1.0	1.00	
Tert-Butyl Alcohol (TBA)	110	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	600	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	78-126		
1,2-Dichloroethane-d4	98	75-135		
Toluene-d8	100	80-120		
Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	98	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6879	N/A	Aqueous	GC/MS O	04/23/15	04/23/15 16:42	150423L009

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	78-126		
1,2-Dichloroethane-d4	110	75-135		
Toluene-d8	97	80-120		
Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	91	80-120		


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6887	N/A	Aqueous	GC/MS R	04/25/15	04/25/15 12:50	150425L020

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	94	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6889	N/A	Aqueous	GC/MS R	04/25/15	04/26/15 01:24	150425L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	78-126		
1,2-Dichloroethane-d4	103	75-135		
Toluene-d8	99	80-120		
Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	91	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6890	N/A	Aqueous	GC/MS R	04/26/15	04/26/15 15:01	150426L011

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	93	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	94	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d5.5	15-04-1216-10-A	04/13/15 10:20	Solid	GC/MS R	04/16/15	04/21/15 18:44	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	51	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	38	5.1	1.00	
p/m-Xylene	9.9	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	9.6	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	870	510	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	25	63-141	2,6
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	102	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d19.5	15-04-1216-11-A	04/13/15 10:40	Solid	GC/MS R	04/16/15	04/22/15 21:40	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	2600	250	
1,2-Dibromoethane	ND	2600	250	
1,2-Dichloroethane	ND	2600	250	
Ethylbenzene	16000	2600	250	
Toluene	14000	2600	250	
p/m-Xylene	72000	2600	250	
o-Xylene	26000	2600	250	
Methyl-t-Butyl Ether (MTBE)	ND	2600	250	
Tert-Butyl Alcohol (TBA)	ND	26000	250	
Diisopropyl Ether (DIPE)	ND	5200	250	
Ethyl-t-Butyl Ether (ETBE)	ND	5200	250	
Tert-Amyl-Methyl Ether (TAME)	ND	5200	250	
Ethanol	ND	260000	250	
TPPH	850000	260000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	86	63-141		
1,2-Dichloroethane-d4	69	62-146		
Toluene-d8	105	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	105	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d22	15-04-1216-12-A	04/13/15 10:50	Solid	GC/MS R	04/16/15	04/22/15 22:08	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4900	500	
1,2-Dibromoethane	ND	4900	500	
1,2-Dichloroethane	ND	4900	500	
Ethylbenzene	31000	4900	500	
Toluene	22000	4900	500	
p/m-Xylene	140000	4900	500	
o-Xylene	56000	4900	500	
Methyl-t-Butyl Ether (MTBE)	ND	4900	500	
Tert-Butyl Alcohol (TBA)	ND	49000	500	
Diisopropyl Ether (DIPE)	ND	9900	500	
Ethyl-t-Butyl Ether (ETBE)	ND	9900	500	
Tert-Amyl-Methyl Ether (TAME)	ND	9900	500	
Ethanol	ND	490000	500	
TPPH	1600000	490000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	92	63-141		
1,2-Dichloroethane-d4	79	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	103	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-17d28	15-04-1216-13-A	04/13/15 11:20	Solid	GC/MS R	04/16/15	04/22/15 01:43	150421L052

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	ND	510	50.0	
Toluene	ND	510	50.0	
p/m-Xylene	720	510	50.0	
o-Xylene	ND	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	ND	51000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	87	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	94	60-132	
Toluene-d8-TPPH	103	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d5.5	15-04-1216-14-A	04/13/15 13:30	Solid	GC/MS R	04/16/15	04/21/15 20:35	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	5.3	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	33	63-141	2,6	
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d17.5	15-04-1216-15-A	04/13/15 13:40	Solid	GC/MS R	04/16/15	04/23/15 20:02	150423L032

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	ND	510	50.0	
Toluene	ND	510	50.0	
p/m-Xylene	ND	510	50.0	
o-Xylene	ND	510	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	
TPPH	ND	51000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	100	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d19	15-04-1216-16-A	04/13/15 13:45	Solid	GC/MS R	04/16/15	04/21/15 21:59	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	96	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	105	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-18d24	15-04-1216-17-A	04/13/15 14:00	Solid	GC/MS R	04/16/15	04/21/15 22:27	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d5.5	15-04-1216-18-A	04/13/15 15:25	Solid	GC/MS R	04/16/15	04/21/15 22:56	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	38	63-141	2,6	
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	105	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d16	15-04-1216-19-A	04/13/15 15:40	Solid	GC/MS R	04/16/15	04/21/15 23:24	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	6.9	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	106	63-141		
1,2-Dichloroethane-d4	109	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	94	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d22.5	15-04-1216-20-A	04/13/15 15:45	Solid	GC/MS R	04/16/15	04/22/15 07:18	150421L054

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	93	60-132		
Toluene-d8-TPPH	103	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d29	15-04-1216-21-A	04/13/15 15:55	Solid	GC/MS R	04/16/15	04/22/15 23:04	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5100	500	
1,2-Dibromoethane	ND	5100	500	
1,2-Dichloroethane	ND	5100	500	
Ethylbenzene	ND	5100	500	
Toluene	ND	5100	500	
p/m-Xylene	ND	5100	500	
o-Xylene	ND	5100	500	
Methyl-t-Butyl Ether (MTBE)	ND	5100	500	
Tert-Butyl Alcohol (TBA)	ND	51000	500	
Diisopropyl Ether (DIPE)	ND	10000	500	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	500	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	500	
Ethanol	ND	510000	500	
TPPH	1300000	510000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	91	63-141		
1,2-Dichloroethane-d4	82	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	91	60-132		
Toluene-d8-TPPH	105	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d34	15-04-1216-22-A	04/13/15 16:05	Solid	GC/MS R	04/16/15	04/22/15 18:16	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	96	62-146	
Toluene-d8	112	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	112	87-111	2,7

SB-19d34	15-04-1216-22-A	04/13/15 16:05	Solid	GC/MS R	04/16/15	04/22/15 09:09	150421L056
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Parameter	Result	RL	DF	Qualifiers
TPPH	ND	500000	500	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Toluene-d8-TPPH	98	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-19d35	15-04-1216-23-A	04/13/15 16:10	Solid	GC/MS R	04/16/15	04/21/15 23:52	150421L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	6.2	5.0	1.00	
Toluene	8.5	5.0	1.00	
p/m-Xylene	24	5.0	1.00	
o-Xylene	9.1	5.0	1.00	
Tert-Butyl Alcohol (TBA)	110	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	3500	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	106	80-120	
1,4-Bromofluorobenzene	98	60-132	
Toluene-d8-TPPH	107	87-111	

SB-19d35	15-04-1216-23-A	04/13/15 16:10	Solid	GC/MS R	04/16/15	04/23/15 20:30	150423L032
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Parameter	Result	RL	DF	Qualifiers
Methyl-t-Butyl Ether (MTBE)	850	490	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	96	62-146	
Toluene-d8	103	80-120	
1,4-Bromofluorobenzene	95	60-132	
Toluene-d8-TPPH	104	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d5.5	15-04-1216-24-A	04/14/15 08:50	Solid	GC/MS R	04/16/15	04/22/15 00:20	150421L022

Parameter	Result	RL	DF	Qualifiers
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Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	44	63-141	2,6
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	93	60-132	
Toluene-d8-TPPH	102	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d16	15-04-1216-25-A	04/14/15 09:10	Solid	GC/MS R	04/16/15	04/22/15 09:37	150421L054

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	15	4.9	1.00	
o-Xylene	5.0	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	49	63-141	2,6	
1,2-Dichloroethane-d4	105	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	103	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d19.5	15-04-1216-26-A	04/14/15 09:20	Solid	GC/MS R	04/16/15	04/23/15 00:28	150422L022

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	89	63-141	
1,2-Dichloroethane-d4	77	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	87	60-132	
Toluene-d8-TPPH	101	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d24	15-04-1216-27-A	04/14/15 09:30	Solid	GC/MS R	04/16/15	04/22/15 10:32	150421L054

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	102	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-20d32	15-04-1216-28-A	04/14/15 09:45	Solid	GC/MS R	04/16/15	04/23/15 00:56	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	990	100	
1,2-Dibromoethane	ND	990	100	
1,2-Dichloroethane	ND	990	100	
Ethylbenzene	1100	990	100	
Toluene	ND	990	100	
p/m-Xylene	2800	990	100	
o-Xylene	ND	990	100	
Methyl-t-Butyl Ether (MTBE)	ND	990	100	
Tert-Butyl Alcohol (TBA)	ND	9900	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	99000	100	
TPPH	490000	99000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	88	63-141		
1,2-Dichloroethane-d4	80	62-146		
Toluene-d8	107	80-120		
1,4-Bromofluorobenzene	91	60-132		
Toluene-d8-TPPH	108	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d5.5	15-04-1216-29-A	04/14/15 11:20	Solid	GC/MS R	04/16/15	04/22/15 11:00	150421L054

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.2	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	520	1.00	
TPPH	ND	520	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	109	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d19.5	15-04-1216-30-A	04/14/15 11:35	Solid	GC/MS R	04/16/15	04/22/15 11:28	150421L054

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	94	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	105	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d32	15-04-1216-31-A	04/14/15 12:00	Solid	GC/MS R	04/16/15	04/22/15 12:23	150421L056

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	990	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	990	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	990	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	87	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	91	60-132		
Toluene-d8-TPPH	102	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-21d35	15-04-1216-32-A	04/14/15 12:20	Solid	GC/MS OO	04/16/15	04/24/15 18:58	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	8.9	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	12	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	860	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	96	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d5.5	15-04-1216-33-A	04/14/15 14:25	Solid	GC/MS OO	04/16/15	04/22/15 08:07	150421L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d15.5	15-04-1216-34-A	04/14/15 14:35	Solid	GC/MS OO	04/16/15	04/22/15 10:01	150421L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d19.5	15-04-1216-35-A	04/14/15 14:40	Solid	GC/MS OO	04/16/15	04/22/15 10:30	150421L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	105	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	95	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d29.5	15-04-1216-36-A	04/14/15 15:00	Solid	GC/MS OO	04/16/15	04/22/15 19:54	150422L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	ND	1000	100	
Toluene	ND	1000	100	
p/m-Xylene	ND	1000	100	
o-Xylene	ND	1000	100	
Methyl-t-Butyl Ether (MTBE)	ND	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	93	62-146	
Toluene-d8	104	80-120	
1,4-Bromofluorobenzene	100	60-132	
Toluene-d8-TPPH	100	87-111	

SB-22d29.5	15-04-1216-36-A	04/14/15 15:00	Solid	GC/MS R	04/16/15	04/23/15 20:58	150423L032
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Parameter	Result	RL	DF	Qualifiers
TPPH	1100000	250000	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	94	63-141	
1,2-Dichloroethane-d4	93	62-146	
Toluene-d8	112	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	112	87-111	2,7

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-22d35	15-04-1216-37-A	04/14/15 15:30	Solid	GC/MS R	04/16/15	04/23/15 21:26	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	490	50.0	
1,2-Dibromoethane	ND	490	50.0	
1,2-Dichloroethane	ND	490	50.0	
Ethylbenzene	10000	490	50.0	
Toluene	ND	490	50.0	
p/m-Xylene	36000	490	50.0	
o-Xylene	14000	490	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	490	50.0	
Tert-Butyl Alcohol (TBA)	ND	4900	50.0	
Diisopropyl Ether (DIPE)	ND	990	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	990	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	990	50.0	
Ethanol	ND	49000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	86	62-146	
Toluene-d8	107	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	109	87-111	

SB-22d35	15-04-1216-37-A	04/14/15 15:30	Solid	GC/MS OO	04/16/15	04/24/15 18:30	150424L027
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Parameter	Result	RL	DF	Qualifiers
TPPH	720000	250000	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	96	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	100	60-132	
Toluene-d8-TPPH	97	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d5.5	15-04-1216-38-A	04/15/15 09:00	Solid	GC/MS OO	04/16/15	04/22/15 11:55	150421L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	13	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	2600	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	97	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	101	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d15.5	15-04-1216-39-A	04/15/15 09:10	Solid	GC/MS OO	04/16/15	04/22/15 23:14	150422L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	980	100	
1,2-Dibromoethane	ND	980	100	
1,2-Dichloroethane	ND	980	100	
Ethylbenzene	8300	980	100	
Toluene	ND	980	100	
p/m-Xylene	23000	980	100	
o-Xylene	2500	980	100	
Methyl-t-Butyl Ether (MTBE)	ND	980	100	
Tert-Butyl Alcohol (TBA)	ND	9800	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	98000	100	
TPPH	580000	98000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	94	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	101	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d22.5	15-04-1216-40-A	04/15/15 09:20	Solid	GC/MS R	04/16/15	04/23/15 21:54	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	2700	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	8400	1000	100	
Toluene	19000	1000	100	
p/m-Xylene	32000	1000	100	
o-Xylene	12000	1000	100	
Methyl-t-Butyl Ether (MTBE)	1300	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	
TPPH	420000	100000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	88	63-141		
1,2-Dichloroethane-d4	86	62-146		
Toluene-d8	104	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	106	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d25.5	15-04-1216-41-A	04/15/15 09:30	Solid	GC/MS OO	04/16/15	04/23/15 00:12	150422L057

Parameter	Result	RL	DF	Qualifiers
Benzene	6600	2000	200	
1,2-Dibromoethane	ND	2000	200	
1,2-Dichloroethane	ND	2000	200	
Ethylbenzene	30000	2000	200	
Toluene	45000	2000	200	
p/m-Xylene	110000	2000	200	
o-Xylene	42000	2000	200	
Methyl-t-Butyl Ether (MTBE)	ND	2000	200	
Tert-Butyl Alcohol (TBA)	ND	20000	200	
Diisopropyl Ether (DIPE)	ND	4000	200	
Ethyl-t-Butyl Ether (ETBE)	ND	4000	200	
Tert-Amyl-Methyl Ether (TAME)	ND	4000	200	
Ethanol	ND	200000	200	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	98	87-111	

SB-23d25.5	15-04-1216-41-A	04/15/15 09:30	Solid	GC/MS R	04/16/15	04/23/15 22:22	150423L032
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Parameter	Result	RL	DF	Qualifiers
TPPH	1400000	500000	500	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	88	63-141	
1,2-Dichloroethane-d4	81	62-146	
Toluene-d8	104	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	105	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d30.5	15-04-1216-42-A	04/15/15 09:40	Solid	GC/MS R	04/17/15	04/23/15 22:49	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	2100	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	2300	500	50.0	
Toluene	6100	500	50.0	
p/m-Xylene	8400	500	50.0	
o-Xylene	3500	500	50.0	
Methyl-t-Butyl Ether (MTBE)	3000	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	150000	50000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	87	63-141		
1,2-Dichloroethane-d4	79	62-146		
Toluene-d8	103	80-120		
1,4-Bromofluorobenzene	91	60-132		
Toluene-d8-TPPH	104	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-23d35	15-04-1216-43-A	04/15/15 09:50	Solid	GC/MS R	04/17/15	04/23/15 23:17	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	850	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	1100	500	50.0	
Toluene	3300	500	50.0	
p/m-Xylene	4100	500	50.0	
o-Xylene	1600	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	990	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	990	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	990	50.0	
Ethanol	ND	50000	50.0	
TPPH	71000	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	91	63-141	
1,2-Dichloroethane-d4	80	62-146	
Toluene-d8	104	80-120	
1,4-Bromofluorobenzene	91	60-132	
Toluene-d8-TPPH	105	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d5.5	15-04-1216-44-A	04/15/15 10:30	Solid	GC/MS OO	04/17/15	04/23/15 01:37	150422L056

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d19.5	15-04-1216-45-A	04/15/15 10:50	Solid	GC/MS OO	04/17/15	04/23/15 02:06	150422L056

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d21	15-04-1216-46-A	04/15/15 10:55	Solid	GC/MS OO	04/17/15	04/23/15 02:34	150422L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	430	50.0	
1,2-Dibromoethane	ND	430	50.0	
1,2-Dichloroethane	ND	430	50.0	
Ethylbenzene	ND	430	50.0	
Toluene	ND	430	50.0	
p/m-Xylene	ND	430	50.0	
o-Xylene	ND	430	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	430	50.0	
Tert-Butyl Alcohol (TBA)	ND	4300	50.0	
Diisopropyl Ether (DIPE)	ND	850	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	850	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	850	50.0	
Ethanol	ND	43000	50.0	
TPPH	190000	43000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	94	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	97	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d25	15-04-1216-47-A	04/15/15 11:10	Solid	GC/MS OO	04/17/15	04/23/15 09:43	150422L065

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	2000	200	
1,2-Dibromoethane	ND	2000	200	
1,2-Dichloroethane	ND	2000	200	
Ethylbenzene	7300	2000	200	
Toluene	ND	2000	200	
p/m-Xylene	26000	2000	200	
o-Xylene	12000	2000	200	
Methyl-t-Butyl Ether (MTBE)	ND	2000	200	
Tert-Butyl Alcohol (TBA)	ND	20000	200	
Diisopropyl Ether (DIPE)	ND	4100	200	
Ethyl-t-Butyl Ether (ETBE)	ND	4100	200	
Tert-Amyl-Methyl Ether (TAME)	ND	4100	200	
Ethanol	ND	200000	200	
TPPH	670000	200000	200	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	96	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-24d35	15-04-1216-48-A	04/15/15 11:45	Solid	GC/MS OO	04/17/15	04/23/15 10:11	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	101	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d5.5	15-04-1216-49-A	04/15/15 13:20	Solid	GC/MS OO	04/17/15	04/23/15 10:40	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	104	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d15.5	15-04-1216-50-A	04/15/15 13:30	Solid	GC/MS OO	04/17/15	04/23/15 11:08	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	98	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d22	15-04-1216-51-A	04/15/15 13:45	Solid	GC/MS OO	04/17/15	04/23/15 11:37	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	101	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d26	15-04-1216-52-A	04/15/15 14:00	Solid	GC/MS OO	04/17/15	04/23/15 12:05	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	101	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-25d35	15-04-1216-53-A	04/15/15 14:25	Solid	GC/MS OO	04/17/15	04/25/15 18:19	150425L002

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-798-1845</b>	<b>N/A</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/21/15</b>	<b>04/21/15 17:48</b>	<b>150421L022</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	94	60-132	
Toluene-d8-TPPH	103	87-111	

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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1846	N/A	Solid	GC/MS R	04/21/15	04/21/15 18:16	150421L052

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	88	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	91	60-132	
Toluene-d8-TPPH	101	87-111	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1847	N/A	Solid	GC/MS R	04/21/15	04/22/15 06:22	150421L054

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	103	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	104	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1848	N/A	Solid	GC/MS R	04/21/15	04/22/15 06:50	150421L056

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	88	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	102	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1850	N/A	Solid	GC/MS OO	04/21/15	04/22/15 07:39	150421L062

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	94	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1853	N/A	Solid	GC/MS R	04/22/15	04/22/15 17:48	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	105	80-120	
1,4-Bromofluorobenzene	93	60-132	
Toluene-d8-TPPH	106	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1857	N/A	Solid	GC/MS OO	04/22/15	04/22/15 19:21	150422L056

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	98	60-132	
Toluene-d8-TPPH	96	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1856	N/A	Solid	GC/MS OO	04/22/15	04/22/15 18:53	150422L057

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	98	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1858	N/A	Solid	GC/MS OO	04/22/15	04/23/15 07:20	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1860	N/A	Solid	GC/MS OO	04/22/15	04/23/15 06:51	150422L065

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	100	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1859	N/A	Solid	GC/MS R	04/23/15	04/23/15 16:46	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	87	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	92	60-132	
Toluene-d8-TPPH	100	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1861	N/A	Solid	GC/MS OO	04/24/15	04/24/15 15:50	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	95	87-111	

Method Blank	099-12-798-1865	N/A	Solid	GC/MS OO	04/24/15	04/24/15 16:19	150424L027
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Parameter	Result	RL	DF	Qualifiers
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	98	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1864	N/A	Solid	GC/MS OO	04/25/15	04/25/15 13:50	150425L002

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	63-141		
1,2-Dichloroethane-d4	101	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
SB-17d5.5	Sample	Solid	GC 47	04/18/15	04/18/15 22:00	150418S02S				
SB-17d5.5	Matrix Spike	Solid	GC 47	04/18/15	04/18/15 21:25	150418S02S				
SB-17d5.5	Matrix Spike Duplicate	Solid	GC 47	04/18/15	04/18/15 21:42	150418S02S				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	250.5	400.0	682.0	108	481.8	58	64-130	34	0-15	3,4

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-21d19.5	Sample	Solid	GC 47	04/18/15	04/19/15 05:38	150418S03S
SB-21d19.5	Matrix Spike	Solid	GC 47	04/18/15	04/19/15 05:03	150418S03S
SB-21d19.5	Matrix Spike Duplicate	Solid	GC 47	04/18/15	04/19/15 05:21	150418S03S

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	417.4	104	430.4	108	64-130	3	0-15	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-25d35	Sample	Solid	GC 47	04/18/15	04/18/15 20:14	150418S04S
SB-25d35	Matrix Spike	Solid	GC 47	04/18/15	04/18/15 18:11	150418S04S
SB-25d35	Matrix Spike Duplicate	Solid	GC 47	04/18/15	04/18/15 18:28	150418S04S

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	351.6	88	363.6	91	64-130	3	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1444-22	Sample	Solid	ICP 7300	04/20/15	04/21/15 18:47	150420S04
15-04-1444-22	Matrix Spike	Solid	ICP 7300	04/20/15	04/21/15 18:48	150420S04
15-04-1444-22	Matrix Spike Duplicate	Solid	ICP 7300	04/20/15	04/21/15 18:49	150420S04

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.97	56	14.45	58	80-120	3	0-20	3
Arsenic	1.039	25.00	26.63	102	26.41	101	80-120	1	0-20	
Barium	8.086	25.00	35.27	109	36.50	114	80-120	3	0-20	
Beryllium	ND	25.00	25.94	104	26.72	107	80-120	3	0-20	
Cadmium	ND	25.00	26.19	105	27.04	108	80-120	3	0-20	
Chromium	3.553	25.00	31.79	113	33.02	118	80-120	4	0-20	
Cobalt	0.6568	25.00	28.87	113	28.64	112	80-120	1	0-20	
Copper	0.5651	25.00	27.55	108	28.90	113	80-120	5	0-20	
Lead	12.52	25.00	42.52	120	43.72	125	80-120	3	0-20	3
Molybdenum	ND	25.00	25.56	102	26.13	105	80-120	2	0-20	
Nickel	1.375	25.00	29.51	113	29.94	114	80-120	1	0-20	
Selenium	ND	25.00	24.01	96	24.30	97	80-120	1	0-20	
Silver	ND	12.50	12.62	101	13.06	105	80-120	3	0-20	
Thallium	ND	25.00	27.08	108	28.12	112	80-120	4	0-20	
Vanadium	5.777	25.00	32.95	109	34.13	113	80-120	4	0-20	
Zinc	59.20	25.00	102.8	174	121.8	250	80-120	17	0-20	3

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-19d22.5</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 15:32</b>	<b>150420S06</b>
<b>SB-19d22.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 15:06</b>	<b>150420S06</b>
<b>SB-19d22.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 15:07</b>	<b>150420S06</b>

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	ND	25.00	9.177	37	9.239	37	50-115	1	0-20	3
Arsenic	5.453	25.00	29.48	96	30.64	101	75-125	4	0-20	
Barium	113.4	25.00	132.1	4X	146.3	4X	75-125	4X	0-20	Q
Beryllium	0.3133	25.00	24.42	96	25.93	102	75-125	6	0-20	
Cadmium	ND	25.00	24.63	99	25.96	104	75-125	5	0-20	
Chromium	28.31	25.00	53.80	102	58.27	120	75-125	8	0-20	
Cobalt	11.65	25.00	37.39	103	39.31	111	75-125	5	0-20	
Copper	13.70	25.00	40.08	106	42.35	115	75-125	6	0-20	
Lead	6.250	25.00	31.18	100	33.57	109	75-125	7	0-20	
Molybdenum	ND	25.00	22.55	90	23.78	95	75-125	5	0-20	
Nickel	40.06	25.00	63.09	92	67.35	109	75-125	7	0-20	
Selenium	ND	25.00	16.54	66	17.31	69	75-125	5	0-20	3
Silver	ND	12.50	12.20	98	12.42	99	75-125	2	0-20	
Thallium	ND	25.00	23.64	95	24.69	99	75-125	4	0-20	
Vanadium	30.30	25.00	56.31	104	60.25	120	75-125	7	0-20	
Zinc	33.39	25.00	58.29	100	62.53	117	75-125	7	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-23d22.5</b>	<b>Sample</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 16:08</b>	<b>150420S07</b>
<b>SB-23d22.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 15:08</b>	<b>150420S07</b>
<b>SB-23d22.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 15:14</b>	<b>150420S07</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	6.413	26	6.075	24	50-115	5	0-20	3
Arsenic	2.410	25.00	27.25	99	25.31	92	75-125	7	0-20	
Barium	146.9	25.00	186.4	4X	178.5	4X	75-125	4X	0-20	Q
Beryllium	0.3147	25.00	25.50	101	24.33	96	75-125	5	0-20	
Cadmium	ND	25.00	24.97	100	24.04	96	75-125	4	0-20	
Chromium	21.39	25.00	51.78	122	49.06	111	75-125	5	0-20	
Cobalt	7.137	25.00	33.84	107	32.20	100	75-125	5	0-20	
Copper	13.71	25.00	42.07	113	39.87	105	75-125	5	0-20	
Lead	6.883	25.00	33.71	107	31.91	100	75-125	5	0-20	
Molybdenum	ND	25.00	21.96	88	21.29	85	75-125	3	0-20	
Nickel	26.23	25.00	54.24	112	52.34	104	75-125	4	0-20	
Selenium	ND	25.00	16.85	67	16.05	64	75-125	5	0-20	3
Silver	ND	12.50	12.31	98	11.76	94	75-125	5	0-20	
Thallium	ND	25.00	24.54	98	23.33	93	75-125	5	0-20	
Vanadium	28.68	25.00	60.47	127	56.15	110	75-125	7	0-20	3
Zinc	47.33	25.00	77.03	119	73.37	104	75-125	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1273-1	Sample	Solid	Mercury 05	04/21/15	04/21/15 19:17	150421S04
15-04-1273-1	Matrix Spike	Solid	Mercury 05	04/21/15	04/21/15 19:19	150421S04
15-04-1273-1	Matrix Spike Duplicate	Solid	Mercury 05	04/21/15	04/21/15 19:21	150421S04

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8029	96	0.6256	75	71-137	25	0-14	4

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-19d22.5	Sample	Solid	Mercury 05	04/21/15	04/21/15 21:56	150421S05
SB-19d22.5	Matrix Spike	Solid	Mercury 05	04/21/15	04/21/15 21:20	150421S05
SB-19d22.5	Matrix Spike Duplicate	Solid	Mercury 05	04/21/15	04/21/15 21:22	150421S05

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.9286	111	0.9528	114	71-137	3	0-14	

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
<b>SB-23d22.5</b>	<b>Sample</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 13:32</b>	<b>150421S06</b>				
<b>SB-23d22.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:25</b>	<b>150421S06</b>				
<b>SB-23d22.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:27</b>	<b>150421S06</b>				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	ND	0.8350	0.9368	112	0.8661	104	71-137	8	0-14	

  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
15-04-1513-1	Sample	Aqueous	GC/MS O	04/23/15	04/23/15 17:14	150423S024				
15-04-1513-1	Matrix Spike	Aqueous	GC/MS O	04/23/15	04/23/15 17:43	150423S024				
15-04-1513-1	Matrix Spike Duplicate	Aqueous	GC/MS O	04/23/15	04/23/15 18:12	150423S024				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.71	95	48.99	98	74-122	3	0-21	
1,2-Dibromoethane	ND	50.00	52.30	105	49.47	99	80-122	6	0-20	
1,2-Dichloroethane	ND	50.00	51.12	102	51.16	102	64-142	0	0-20	
Ethylbenzene	ND	50.00	52.80	106	52.34	105	77-125	1	0-24	
Toluene	ND	50.00	48.14	96	49.13	98	72-126	2	0-23	
p/m-Xylene	ND	100.0	109.7	110	106.1	106	63-129	3	0-25	
o-Xylene	ND	50.00	57.39	115	56.22	112	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	649.9	50.00	655.0	10	648.6	0	68-134	1	0-21	3
Tert-Butyl Alcohol (TBA)	36.50	250.0	286.1	100	298.6	105	65-143	4	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	52.50	105	53.86	108	61-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	52.23	104	53.04	106	64-136	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	47.98	96	49.14	98	67-133	2	0-20	
Ethanol	ND	500.0	480.1	96	478.6	96	34-178	0	0-58	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1809-11	Sample	Aqueous	GC/MS R	04/25/15	04/25/15 13:18	150425S005
15-04-1809-11	Matrix Spike	Aqueous	GC/MS R	04/25/15	04/25/15 13:46	150425S005
15-04-1809-11	Matrix Spike Duplicate	Aqueous	GC/MS R	04/25/15	04/25/15 14:14	150425S005

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.54	93	50.73	101	74-122	9	0-21	
1,2-Dibromoethane	ND	50.00	50.20	100	54.54	109	80-122	8	0-20	
1,2-Dichloroethane	ND	50.00	46.32	93	49.90	100	64-142	7	0-20	
Ethylbenzene	ND	50.00	51.42	103	54.93	110	77-125	7	0-24	
Toluene	ND	50.00	49.69	99	53.12	106	72-126	7	0-23	
p/m-Xylene	ND	100.0	108.7	109	114.7	115	63-129	5	0-25	
o-Xylene	ND	50.00	55.32	111	57.73	115	62-128	4	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	47.74	95	51.91	104	68-134	8	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	241.5	97	252.0	101	65-143	4	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	51.51	103	55.44	111	61-139	7	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	50.21	100	46.10	92	64-136	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	47.82	96	52.44	105	67-133	9	0-20	
Ethanol	ND	500.0	438.6	88	459.2	92	34-178	5	0-58	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1592-1	Sample	Aqueous	GC/MS R	04/25/15	04/26/15 01:52	150425S013
15-04-1592-1	Matrix Spike	Aqueous	GC/MS R	04/25/15	04/26/15 02:20	150425S013
15-04-1592-1	Matrix Spike Duplicate	Aqueous	GC/MS R	04/25/15	04/26/15 02:47	150425S013

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	44.06	88	48.41	97	72-120	9	0-20	
1,2-Dibromoethane	ND	50.00	47.47	95	52.18	104	80-120	9	0-20	
1,2-Dichloroethane	ND	50.00	45.29	91	48.65	97	10-150	7	0-20	
Ethylbenzene	ND	50.00	46.39	93	52.40	105	78-120	12	0-20	
Toluene	ND	50.00	47.74	95	51.59	103	74-122	8	0-20	
p/m-Xylene	ND	100.0	98.26	98	109.7	110	10-150	11	0-20	
o-Xylene	ND	50.00	50.86	102	56.08	112	10-150	10	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	45.96	92	51.64	103	72-126	12	0-20	

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RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1725-3	Sample	Aqueous	GC/MS R	04/26/15	04/26/15 15:29	150426S003
15-04-1725-3	Matrix Spike	Aqueous	GC/MS R	04/26/15	04/26/15 15:57	150426S003
15-04-1725-3	Matrix Spike Duplicate	Aqueous	GC/MS R	04/26/15	04/26/15 16:25	150426S003

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	42.04	84	39.70	79	74-122	6	0-21	
1,2-Dibromoethane	ND	50.00	45.46	91	45.13	90	80-122	1	0-20	
1,2-Dichloroethane	ND	50.00	42.35	85	41.81	84	64-142	1	0-20	
Ethylbenzene	ND	50.00	46.81	94	43.92	88	77-125	6	0-24	
Toluene	ND	50.00	44.88	90	43.17	86	72-126	4	0-23	
p/m-Xylene	ND	100.0	99.34	99	93.28	93	63-129	6	0-25	
o-Xylene	ND	50.00	49.71	99	47.73	95	62-128	4	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.90	86	43.97	88	68-134	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	195.2	78	218.3	87	65-143	11	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	45.64	91	47.05	94	61-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	35.50	71	44.54	89	64-136	23	0-20	4
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.44	87	43.19	86	67-133	1	0-20	
Ethanol	ND	500.0	410.7	82	397.9	80	34-178	3	0-58	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #111117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-17d5.5</b>	<b>Sample</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/21/15 18:44</b>	<b>150421S008</b>
<b>SB-17d5.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/21/15 19:12</b>	<b>150421S008</b>
<b>SB-17d5.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/21/15 19:39</b>	<b>150421S008</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	50.55	50.00	79.47	58	45.50	0	61-127	54	0-20	3,4
1,2-Dibromoethane	ND	50.00	43.43	87	42.06	84	64-124	3	0-20	
1,2-Dichloroethane	ND	50.00	43.94	88	40.85	82	80-120	7	0-20	
Ethylbenzene	ND	50.00	46.42	93	43.80	88	57-129	6	0-22	
Toluene	37.62	50.00	66.14	57	52.85	30	63-123	22	0-20	3,4
p/m-Xylene	9.890	100.0	96.39	87	91.13	81	70-130	6	0-30	
o-Xylene	ND	50.00	48.63	97	46.43	93	70-130	5	0-30	
Methyl-t-Butyl Ether (MTBE)	9.573	50.00	50.38	82	50.47	82	57-123	0	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	251.7	101	243.0	97	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	48.52	97	49.02	98	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.43	97	47.47	95	55-127	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	47.93	96	44.89	90	58-124	7	0-20	
Ethanol	ND	500.0	489.2	98	455.4	91	17-167	7	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-19d22.5</b>	<b>Sample</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/22/15 07:18</b>	<b>150421S026</b>
<b>SB-19d22.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/22/15 07:46</b>	<b>150421S026</b>
<b>SB-19d22.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/22/15 08:13</b>	<b>150421S026</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	44.60	89	44.07	88	61-127	1	0-20	
1,2-Dibromoethane	ND	50.00	44.02	88	46.65	93	64-124	6	0-20	
1,2-Dichloroethane	ND	50.00	43.58	87	44.16	88	80-120	1	0-20	
Ethylbenzene	ND	50.00	47.79	96	46.66	93	57-129	2	0-22	
Toluene	ND	50.00	50.46	101	50.40	101	63-123	0	0-20	
p/m-Xylene	ND	100.0	101.7	102	100.4	100	70-130	1	0-30	
o-Xylene	ND	50.00	52.30	105	51.61	103	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	46.73	93	48.98	98	57-123	5	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	280.4	112	276.5	111	30-168	1	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	50.62	101	52.35	105	57-129	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.37	97	50.86	102	55-127	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	47.03	94	47.69	95	58-124	1	0-20	
Ethanol	ND	500.0	491.1	98	463.7	93	17-167	6	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-19d34</b>	<b>Sample</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/22/15 18:16</b>	<b>150422S012</b>
<b>SB-19d34</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/22/15 18:44</b>	<b>150422S012</b>
<b>SB-19d34</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC/MS R</b>	<b>04/16/15</b>	<b>04/22/15 19:12</b>	<b>150422S012</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	5000	4878	98	4839	97	61-127	1	0-20	
1,2-Dibromoethane	ND	5000	4334	87	4607	92	64-124	6	0-20	
1,2-Dichloroethane	ND	5000	4309	86	4149	83	80-120	4	0-20	
Ethylbenzene	ND	5000	4806	96	5087	102	57-129	6	0-22	
Toluene	ND	5000	5225	105	5579	112	63-123	7	0-20	
p/m-Xylene	ND	10000	9844	98	10130	101	70-130	3	0-30	
o-Xylene	ND	5000	5100	102	5309	106	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	5000	4341	87	4910	98	57-123	12	0-21	
Tert-Butyl Alcohol (TBA)	ND	25000	24830	99	25260	101	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	5000	4900	98	5762	115	57-129	16	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	4683	94	5398	108	55-127	14	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	5000	4602	92	4977	100	58-124	8	0-20	
Ethanol	ND	50000	10760	22	35160	70	17-167	106	0-47	4

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1771-5	Sample	Solid	GC/MS R	04/23/15	04/23/15 17:14	150423S011
15-04-1771-5	Matrix Spike	Solid	GC/MS R	04/23/15	04/23/15 17:42	150423S011
15-04-1771-5	Matrix Spike Duplicate	Solid	GC/MS R	04/23/15	04/23/15 18:10	150423S011

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	39.13	78	38.25	77	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	40.28	81	39.55	79	64-124	2	0-20	
1,2-Dichloroethane	ND	50.00	39.32	79	37.93	76	80-120	4	0-20	3
Ethylbenzene	ND	50.00	41.20	82	40.80	82	57-129	1	0-22	
Toluene	ND	50.00	43.45	87	42.99	86	63-123	1	0-20	
p/m-Xylene	ND	100.0	82.62	83	82.60	83	70-130	0	0-30	
o-Xylene	ND	50.00	42.74	85	42.98	86	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.53	85	42.89	86	57-123	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	210.8	84	216.0	86	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	43.96	88	45.63	91	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	39.94	80	38.94	78	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.97	88	42.34	85	58-124	4	0-20	
Ethanol	ND	500.0	407.7	82	357.7	72	17-167	13	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-22d5.5	Sample	Solid	GC/MS OO	04/16/15	04/22/15 08:07	150421S031
SB-22d5.5	Matrix Spike	Solid	GC/MS OO	04/16/15	04/22/15 08:36	150421S031
SB-22d5.5	Matrix Spike Duplicate	Solid	GC/MS OO	04/16/15	04/22/15 09:04	150421S031

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	37.73	75	37.19	74	61-127	1	0-20	
1,2-Dibromoethane	ND	50.00	31.16	62	28.02	56	64-124	11	0-20	3
1,2-Dichloroethane	ND	50.00	32.33	65	30.29	61	80-120	7	0-20	3
Ethylbenzene	ND	50.00	38.09	76	37.63	75	57-129	1	0-22	
Toluene	ND	50.00	39.17	78	38.71	77	63-123	1	0-20	
p/m-Xylene	ND	100.0	70.53	71	74.02	74	70-130	5	0-30	
o-Xylene	ND	50.00	38.52	77	37.58	75	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	29.12	58	26.79	54	57-123	8	0-21	3
Tert-Butyl Alcohol (TBA)	ND	250.0	148.2	59	136.2	54	30-168	8	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	30.86	62	29.04	58	57-129	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	28.79	58	26.84	54	55-127	7	0-20	3
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	32.37	65	29.74	59	58-124	8	0-20	
Ethanol	ND	500.0	126.5	25	90.75	18	17-167	33	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-22d29.5</b>	<b>Sample</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/16/15</b>	<b>04/22/15 19:54</b>	<b>150422S032</b>
<b>SB-22d29.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/16/15</b>	<b>04/22/15 21:20</b>	<b>150422S032</b>
<b>SB-22d29.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/16/15</b>	<b>04/22/15 21:49</b>	<b>150422S032</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	10000	10100	101	9972	100	61-127	1	0-20	
1,2-Dibromoethane	ND	10000	10060	101	10050	100	64-124	0	0-20	
1,2-Dichloroethane	ND	10000	10370	104	10140	101	80-120	2	0-20	
Ethylbenzene	ND	10000	10610	106	10660	107	57-129	0	0-22	
Toluene	ND	10000	10910	109	10650	106	63-123	2	0-20	
p/m-Xylene	ND	20000	21860	109	21900	109	70-130	0	0-30	
o-Xylene	ND	10000	11020	110	11150	111	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	10000	9733	97	10010	100	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	50000	51030	102	56370	113	30-168	10	0-34	
Diisopropyl Ether (DIPE)	ND	10000	9011	90	9392	94	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	9178	92	9672	97	55-127	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	11000	110	11030	110	58-124	0	0-20	
Ethanol	ND	100000	110600	111	116400	116	17-167	5	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1356-14	Sample	Solid	GC/MS OO	04/20/15	04/23/15 07:48	150422S037
15-04-1356-14	Matrix Spike	Solid	GC/MS OO	04/20/15	04/23/15 08:17	150422S037
15-04-1356-14	Matrix Spike Duplicate	Solid	GC/MS OO	04/20/15	04/23/15 08:45	150422S037

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.35	91	44.47	89	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	41.36	83	41.16	82	64-124	0	0-20	
1,2-Dichloroethane	ND	50.00	41.38	83	41.70	83	80-120	1	0-20	
Ethylbenzene	ND	50.00	44.02	88	44.19	88	57-129	0	0-22	
Toluene	ND	50.00	45.63	91	44.36	89	63-123	3	0-20	
p/m-Xylene	ND	100.0	92.37	92	89.51	90	70-130	3	0-30	
o-Xylene	ND	50.00	46.07	92	46.04	92	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	40.00	80	41.08	82	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	203.9	82	201.3	81	30-168	1	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	38.29	77	38.57	77	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	38.25	76	38.90	78	55-127	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.60	87	42.99	86	58-124	1	0-20	
Ethanol	ND	500.0	308.7	62	162.9	33	17-167	62	0-47	4

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RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1356-7	Sample	Solid	GC/MS OO	04/24/15	04/24/15 17:04	150424S010
15-04-1356-7	Matrix Spike	Solid	GC/MS OO	04/24/15	04/24/15 17:32	150424S010
15-04-1356-7	Matrix Spike Duplicate	Solid	GC/MS OO	04/24/15	04/24/15 18:01	150424S010

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	6.326	50.00	51.29	90	52.07	91	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	42.52	85	45.69	91	64-124	7	0-20	
1,2-Dichloroethane	ND	50.00	44.82	90	45.58	91	80-120	2	0-20	
Ethylbenzene	ND	50.00	47.54	95	50.26	101	57-129	6	0-22	
Toluene	8.179	50.00	55.78	95	56.62	97	63-123	1	0-20	
p/m-Xylene	5.956	100.0	103.4	97	107.5	101	70-130	4	0-30	
o-Xylene	ND	50.00	51.39	103	54.08	108	70-130	5	0-30	
Methyl-t-Butyl Ether (MTBE)	5.601	50.00	45.66	80	49.05	87	57-123	7	0-21	
Tert-Butyl Alcohol (TBA)	396.8	250.0	662.6	106	682.9	114	30-168	3	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	38.43	77	41.99	84	57-129	9	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	38.28	77	42.61	85	55-127	11	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	44.33	89	48.96	98	58-124	10	0-20	
Ethanol	ND	500.0	462.7	93	422.6	85	17-167	9	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1358-1	Sample	Solid	GC/MS OO	04/24/15	04/25/15 14:59	150425S009
15-04-1358-1	Matrix Spike	Solid	GC/MS OO	04/24/15	04/25/15 15:27	150425S009
15-04-1358-1	Matrix Spike Duplicate	Solid	GC/MS OO	04/24/15	04/25/15 15:56	150425S009

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.80	92	46.24	92	61-127	1	0-20	
1,2-Dibromoethane	ND	50.00	46.51	93	46.05	92	64-124	1	0-20	
1,2-Dichloroethane	ND	50.00	46.32	93	46.27	93	80-120	0	0-20	
Ethylbenzene	ND	50.00	48.00	96	48.91	98	57-129	2	0-22	
Toluene	ND	50.00	47.66	95	48.48	97	63-123	2	0-20	
p/m-Xylene	ND	100.0	100.3	100	102.0	102	70-130	2	0-30	
o-Xylene	ND	50.00	50.37	101	51.53	103	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.64	85	43.32	87	57-123	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	243.2	97	239.4	96	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	41.22	82	41.56	83	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	42.31	85	42.54	85	55-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	48.49	97	48.93	98	58-124	1	0-20	
Ethanol	ND	500.0	483.8	97	418.5	84	17-167	14	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - PDS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
15-04-1444-22	Sample	Solid	ICP 7300	04/20/15 00:00	04/21/15 18:47	150420S04
15-04-1444-22	PDS	Solid	ICP 7300	04/20/15 00:00	04/21/15 18:50	150420S04
Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Antimony	ND	25.00	24.92	100	75-125	
Arsenic	1.039	25.00	26.25	101	75-125	
Barium	8.086	25.00	35.57	110	75-125	
Beryllium	ND	25.00	25.17	101	75-125	
Cadmium	ND	25.00	25.58	102	75-125	
Chromium	3.553	25.00	30.66	108	75-125	
Cobalt	0.6568	25.00	28.30	111	75-125	
Copper	0.5651	25.00	26.92	105	75-125	
Lead	12.52	25.00	40.22	111	75-125	
Molybdenum	ND	25.00	26.15	105	75-125	
Nickel	1.375	25.00	28.75	109	75-125	
Selenium	ND	25.00	24.02	96	75-125	
Silver	ND	12.50	12.99	104	75-125	
Thallium	ND	25.00	27.59	110	75-125	
Vanadium	5.777	25.00	31.92	105	75-125	
Zinc	59.20	25.00	84.50	101	75-125	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1013	LCS	Aqueous	GC 45	04/17/15	04/18/15 15:52	150417B10S			
099-15-304-1013	LCSD	Aqueous	GC 45	04/17/15	04/18/15 16:11	150417B10S			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1861	93	2008	100	75-117	8	0-13	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Antea Group	Date Received:	04/16/15
11050 White Rock Rd. Suite# 110	Work Order:	15-04-1216
Rancho Cordova, CA 95670-6001	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
Project: BP #11117		Page 2 of 28

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1736</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 21:08</b>	<b>150418B02S</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	397.1	99	75-123	

  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1737</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/19/15 04:45</b>	<b>150418B03S</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	439.9	110	75-123	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1735</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 47</b>	<b>04/18/15</b>	<b>04/18/15 17:53</b>	<b>150418B04S</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	394.8	99	75-123	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20838</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/23/15 18:24</b>	<b>150420L04</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	21.63	87	80-120	73-127	
Arsenic		25.00	21.16	85	80-120	73-127	
Barium		25.00	24.09	96	80-120	73-127	
Beryllium		25.00	22.70	91	80-120	73-127	
Cadmium		25.00	23.86	95	80-120	73-127	
Chromium		25.00	24.18	97	80-120	73-127	
Cobalt		25.00	24.26	97	80-120	73-127	
Copper		25.00	24.58	98	80-120	73-127	
Lead		25.00	23.60	94	80-120	73-127	
Molybdenum		25.00	22.54	90	80-120	73-127	
Nickel		25.00	24.97	100	80-120	73-127	
Selenium		25.00	21.39	86	80-120	73-127	
Silver		12.50	11.69	93	80-120	73-127	
Thallium		25.00	22.59	90	80-120	73-127	
Vanadium		25.00	23.37	93	80-120	73-127	
Zinc		25.00	23.73	95	80-120	73-127	

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

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20836</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/23/15 18:22</b>	<b>150420L06</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	20.21	81	80-120	73-127	
Arsenic		25.00	20.12	80	80-120	73-127	
Barium		25.00	22.81	91	80-120	73-127	
Beryllium		25.00	22.08	88	80-120	73-127	
Cadmium		25.00	22.46	90	80-120	73-127	
Chromium		25.00	22.95	92	80-120	73-127	
Cobalt		25.00	22.95	92	80-120	73-127	
Copper		25.00	22.86	91	80-120	73-127	
Lead		25.00	22.15	89	80-120	73-127	
Molybdenum		25.00	21.11	84	80-120	73-127	
Nickel		25.00	23.54	94	80-120	73-127	
Selenium		25.00	20.51	82	80-120	73-127	
Silver		12.50	11.12	89	80-120	73-127	
Thallium		25.00	21.38	86	80-120	73-127	
Vanadium		25.00	22.11	88	80-120	73-127	
Zinc		25.00	22.06	88	80-120	73-127	

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

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20837</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/20/15</b>	<b>04/21/15 15:00</b>	<b>150420L07</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	24.89	100	80-120	73-127	
Arsenic		25.00	25.16	101	80-120	73-127	
Barium		25.00	25.89	104	80-120	73-127	
Beryllium		25.00	24.55	98	80-120	73-127	
Cadmium		25.00	26.27	105	80-120	73-127	
Chromium		25.00	27.32	109	80-120	73-127	
Cobalt		25.00	27.61	110	80-120	73-127	
Copper		25.00	27.05	108	80-120	73-127	
Lead		25.00	27.61	110	80-120	73-127	
Molybdenum		25.00	26.39	106	80-120	73-127	
Nickel		25.00	27.72	111	80-120	73-127	
Selenium		25.00	24.59	98	80-120	73-127	
Silver		12.50	12.72	102	80-120	73-127	
Thallium		25.00	26.83	107	80-120	73-127	
Vanadium		25.00	26.42	106	80-120	73-127	
Zinc		25.00	26.56	106	80-120	73-127	

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 Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1175</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 19:10</b>	<b>150421L04</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.7398	89	85-121	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1176</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/22/15 19:19</b>	<b>150421L05</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.7941	95	85-121	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1177</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/21/15</b>	<b>04/21/15 21:18</b>	<b>150421L06</b>

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury	0.8350	1.002	120	85-121	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6879	LCS	Aqueous	GC/MS O	04/23/15	04/23/15 15:08	150423L009				
099-12-767-6879	LCSD	Aqueous	GC/MS O	04/23/15	04/23/15 15:40	150423L009				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.12	100	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dibromoethane	50.00	51.94	104	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	53.00	106	N/A	N/A	70-130	60-140	N/A	0-20	
Ethylbenzene	50.00	54.11	108	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	51.00	102	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	114.7	115	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	59.58	119	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.90	104	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	267.3	107	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	55.01	110	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	52.93	106	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.44	101	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	553.3	111	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	867.7	87	889.3	89	65-135	53-147	2	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #111117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6887	LCS	Aqueous	GC/MS R	04/25/15	04/25/15 11:27	150425L020				
099-12-767-6887	LCSD	Aqueous	GC/MS R	04/25/15	04/25/15 11:55	150425L020				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.05	98	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dibromoethane	50.00	48.56	97	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	45.27	91	N/A	N/A	70-130	60-140	N/A	0-20	
Ethylbenzene	50.00	51.67	103	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	43.98	88	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	110.7	111	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	55.69	111	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.70	87	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	270.4	108	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	47.55	95	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.46	93	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.07	96	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	508.5	102	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	1173	117	1237	124	65-135	53-147	5	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6889	LCS	Aqueous	GC/MS R	04/25/15	04/26/15 00:00	150425L030				
099-12-767-6889	LCSD	Aqueous	GC/MS R	04/25/15	04/26/15 00:28	150425L030				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.87	94	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.88	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	44.98	90	N/A	N/A	70-130	60-140	N/A	0-20	
Ethylbenzene	50.00	49.80	100	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	48.65	97	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	106.1	106	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	54.77	110	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.46	97	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	253.8	102	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	52.13	104	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	50.68	101	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.62	97	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	471.8	94	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	1003	100	1092	109	65-135	53-147	9	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6890	LCS	Aqueous	GC/MS R	04/26/15	04/26/15 13:20	150426L011				
099-12-767-6890	LCSD	Aqueous	GC/MS R	04/26/15	04/26/15 13:55	150426L011				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.93	94	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.34	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	48.00	96	N/A	N/A	70-130	60-140	N/A	0-20	
Ethylbenzene	50.00	50.84	102	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	50.80	102	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	108.4	108	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	55.32	111	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.96	98	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	242.0	97	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	51.22	102	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	41.32	83	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	46.69	93	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	510.9	102	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	1341	134	1056	106	65-135	53-147	24	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1845	LCS	Solid	GC/MS R	04/21/15	04/21/15 16:24	150421L022				
099-12-798-1845	LCSD	Solid	GC/MS R	04/21/15	04/21/15 16:52	150421L022				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.27	87	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	44.53	89	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	45.20	90	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.78	100	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	50.61	101	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	102.2	102	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	51.37	103	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.78	86	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	242.6	97	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.20	94	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.08	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	46.16	92	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	461.9	92	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	965.9	97	956.3	96	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1846	LCS	Solid	GC/MS R	04/21/15	04/21/15 16:24	150421L052				
099-12-798-1846	LCSD	Solid	GC/MS R	04/21/15	04/21/15 16:52	150421L052				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.27	87	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	44.53	89	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	45.20	90	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.78	100	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	50.61	101	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	102.2	102	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	51.37	103	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.78	86	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	242.6	97	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	47.20	94	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.08	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	46.16	92	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	461.9	92	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	965.9	97	956.3	96	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1847	LCS	Solid	GC/MS R	04/21/15	04/22/15 04:58	150421L054				
099-12-798-1847	LCSD	Solid	GC/MS R	04/21/15	04/22/15 05:26	150421L054				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.06	96	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.09	100	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	47.23	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	53.35	107	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	54.51	109	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	107.7	108	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	56.28	113	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.90	98	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	276.0	110	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	54.49	109	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.48	95	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.41	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	586.7	117	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	898.9	90	890.5	89	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1848	LCS	Solid	GC/MS R	04/21/15	04/22/15 04:58	150421L056				
099-12-798-1848	LCSD	Solid	GC/MS R	04/21/15	04/22/15 05:26	150421L056				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.06	96	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.09	100	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	47.23	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	53.35	107	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	54.51	109	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	107.7	108	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	56.28	113	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	48.90	98	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	276.0	110	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	54.49	109	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.48	95	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.41	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	586.7	117	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	898.9	90	890.5	89	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1853	LCS	Solid	GC/MS R	04/22/15	04/22/15 15:56	150422L022				
099-12-798-1853	LCSD	Solid	GC/MS R	04/22/15	04/22/15 16:24	150422L022				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.59	87	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	45.05	90	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	43.94	88	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	50.34	101	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	51.25	102	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	103.1	103	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	52.41	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.19	86	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	254.8	102	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	48.04	96	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.39	93	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.83	92	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	488.7	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	978.2	98	876.7	88	65-135	53-147	11	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1859	LCS	Solid	GC/MS R	04/23/15	04/23/15 15:22	150423L032				
099-12-798-1859	LCSD	Solid	GC/MS R	04/23/15	04/23/15 15:50	150423L032				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.64	91	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	45.24	90	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	43.64	87	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	51.18	102	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.41	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	103.8	104	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	53.17	106	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.52	89	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	241.0	96	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	50.35	101	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	43.65	87	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	47.76	96	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	424.4	85	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	836.8	84	884.5	88	65-135	53-147	6	0-30	

Total number of LCS compounds: 14

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 Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1850	LCS	Solid	GC/MS OO	04/21/15	04/22/15 05:45	150421L062				
099-12-798-1850	LCSD	Solid	GC/MS OO	04/21/15	04/22/15 06:13	150421L062				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.08	100	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	51.15	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	50.45	101	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.01	104	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	51.02	102	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	107.9	108	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.21	108	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.89	92	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	249.1	100	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	44.53	89	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.36	89	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.86	100	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	496.5	99	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	906.8	91	931.1	93	65-135	53-147	3	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1857	LCS	Solid	GC/MS OO	04/22/15	04/22/15 16:58	150422L056				
099-12-798-1857	LCSD	Solid	GC/MS OO	04/22/15	04/22/15 17:27	150422L056				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.56	99	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	51.02	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	48.97	98	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.54	105	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	51.61	103	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	109.2	109	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.93	110	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.81	92	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	250.5	100	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	44.14	88	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.59	89	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.12	104	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	508.0	102	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	972.6	97	1058	106	65-135	53-147	8	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1856	LCS	Solid	GC/MS OO	04/22/15	04/22/15 16:58	150422L057				
099-12-798-1856	LCSD	Solid	GC/MS OO	04/22/15	04/22/15 17:27	150422L057				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.56	99	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	51.02	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	48.97	98	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	52.54	105	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	51.61	103	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	109.2	109	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.93	110	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.81	92	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	250.5	100	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	44.14	88	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.59	89	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.12	104	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	508.0	102	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	972.6	97	1058	106	65-135	53-147	8	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1858	LCS	Solid	GC/MS OO	04/22/15	04/23/15 05:26	150422L064				
099-12-798-1858	LCSD	Solid	GC/MS OO	04/22/15	04/23/15 05:54	150422L064				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.36	95	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	49.67	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	46.79	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.56	99	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.62	97	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	102.2	102	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	51.77	104	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.84	94	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	248.9	100	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.19	90	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.69	91	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.48	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	488.9	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	935.5	94	929.1	93	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1860	LCS	Solid	GC/MS OO	04/22/15	04/23/15 05:26	150422L065				
099-12-798-1860	LCSD	Solid	GC/MS OO	04/22/15	04/23/15 05:54	150422L065				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.36	95	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	49.67	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	46.79	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.56	99	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.62	97	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	102.2	102	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	51.77	104	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.84	94	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	248.9	100	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.19	90	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.69	91	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.48	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	488.9	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	935.5	94	929.1	93	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

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 Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1861	LCS	Solid	GC/MS OO	04/24/15	04/24/15 14:25	150424L026				
099-12-798-1861	LCSD	Solid	GC/MS OO	04/24/15	04/24/15 14:53	150424L026				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.34	103	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.59	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	49.70	99	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	53.21	106	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.52	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	109.2	109	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.26	109	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.57	95	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	252.3	101	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.88	92	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.12	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.19	104	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	503.1	101	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	956.8	96	957.5	96	65-135	53-147	0	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1865	LCS	Solid	GC/MS OO	04/24/15	04/24/15 14:25	150424L027				
099-12-798-1865	LCSD	Solid	GC/MS OO	04/24/15	04/24/15 14:53	150424L027				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.34	103	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.59	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	49.70	99	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	53.21	106	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.52	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	109.2	109	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.26	109	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.57	95	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	252.3	101	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.88	92	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.12	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.19	104	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	503.1	101	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	956.8	96	957.5	96	65-135	53-147	0	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/16/15  
Work Order: 15-04-1216  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1864	LCS	Solid	GC/MS OO	04/25/15	04/25/15 12:18	150425L002				
099-12-798-1864	LCSD	Solid	GC/MS OO	04/25/15	04/25/15 12:47	150425L002				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.44	97	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	49.97	100	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	47.56	95	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	50.85	102	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	49.06	98	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	103.4	103	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	52.00	104	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.04	92	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	247.4	99	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	43.76	88	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.30	91	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.26	101	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	496.3	99	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	902.6	90	907.1	91	65-135	53-147	0	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Sample Analysis Summary Report

Work Order: 15-04-1216

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3510C	682	GC 45	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 3510C	949	GC 45	1
EPA 8015B (M)	EPA 3550B	949	GC 47	1
GC/MS / EPA 8260B	EPA 5030C	163	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	849	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	975	GC/MS O	2
GC/MS / EPA 8260B	EPA 5030C	975	GC/MS R	2


  
Return to Contents

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841



## Glossary of Terms and Qualifiers

Work Order: 15-04-1216

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
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. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.  
LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110  
CITY: Rancho Cordova STATE: CA ZIP: 95670  
E-MAIL: dennis.dettloff@anteagroup.com  
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS:  
CC results to jonathan.fillingame@anteagroup.com

WORKING/LAB USE ONLY  
**15-04-1216**

CHAIN-OF-CUSTODY RECORD

DATE: 4/15/15  
PAGE: 1 OF 6

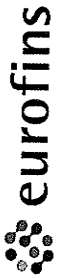
CLIENT PROJECT NAME / NO.: BP #11117  
PROJECT CONTACT: Dennis Dettloff  
GLOBAL ID: T0600100201  
LOG CODE:  
P.O. NO.: 142611117  
LAB CONTACT OR QUOTE NO.:  
SAMPLER(S): (PRINT)  
Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Field Status			TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B naphthalene	CAM17 Metals
		DATE	TIME			Unpreserved	Preserved	Field Filtered					
1	SB-17 G-W	4/13/15	11:45	water	4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2	SB-18 G-W	4/13/15	14:30		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3	SB-19 G-W	4/13/15	15:40		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	SB-20 G-W	4/14/15	10:30		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	SB-21 G-W	4/14/15	17:30		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6	SB-22 G-W	4/14/15	16:00		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7	SB-23 G-W	4/15/15	10:00		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8	SB-24 G-W	4/15/15	12:00		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
9	SB-25 G-W	4/15/15	14:45		4	1	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Relinquished by: (Signature) *Jonathan Fillingame*  
 Relinquished by: (Signature)  
 Relinquished by: (Signature)  
 Received by: (Signature/Affiliation)  
 Received by: (Signature/Affiliation)  
 Received by: (Signature/Affiliation)  
 Date: 4/16/15  
 Time: 1000



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For counter service / sample drop off information, contact us26\_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110  
CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:  COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: 4/15/15

PAGE: 2 OF 6

WORK NO. / LAB USE ONLY  
15-04-1216

CLIENT PROJECT NAME / NO.: BP #11117  
PROJECT CONTACT: Dennis Dettloff  
GLOBAL ID: T0600100201  
LOG CODE:  
P.O. NO.: I42611117  
LAB CONTACT OR QUOTE NO.:  
SAMPLER(S) (PRINT): Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filled	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	CAM17 Metals
		DATE	TIME									
10	SB-17a.5.5	4/13/15	10:20	Soil	1	/			X	X	X	X
11	SB-17a.19.5	4/13/15	10:40	Soil	1	/			X	X	X	X
12	SB-17d.2.2	4/13/15	10:50	Soil	1	/			X	X	X	X
13	SB-17d.2.8	4/13/15	11:20	Soil	1	/			X	X	X	X
14	SB-18d.5.5	4/13/15	13:30	Soil	1	/			X	X	X	X
15	SB-18d.17.5	4/13/15	13:40	Soil	1	/			X	X	X	X
16	SB-18d.19	4/13/15	13:45	Soil	1	/			X	X	X	X
17	SB-18d.24	4/13/15	14:00	Soil	1	/			X	X	X	X
18	SB-19d.5.5	4/13/15	15:25	Soil	1	/			X	X	X	X
19	SB-19d.16	4/13/15	15:40	Soil	1	/			X	X	X	X

Relinquished by: (Signature) *Jonathan Fillingame*  
 Relinquished by: (Signature)  
 Relinquished by: (Signature)

Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation) \_\_\_\_\_ Date: 4/16/15 Time: 1000



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For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT:

Antea Group

ADDRESS: 11050 White Rock Road, Suite 110

STATE: CA

ZIP: 95670

CITY: Rancho Cordova

E-MAIL: dennis\_dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: 4/15/15

PAGE: 3 OF 5

WORK NO. / LAB USE ONLY  
15-04-1216

CLIENT PROJECT NAME / NO.: BP #11117

LAB CONTACT OR QUOTE NO.: 142611117

PROJECT CONTACT: Dennis Dettloff

GLOBAL ID: T0600100201

LOG CODE: Jonathan Fillingame

SAMPLER(S): (PRINT)

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) <input type="checkbox"/> GRO by 8260B	<input checked="" type="checkbox"/> TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIFE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	CAM-17 Metals
20	SB-19d22.5	4/13/15	15:45	Soil	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21	SB-19d29	4/13/15	15:55		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22	SB-19d34	4/13/15	16:05		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
23	SB-19d35	4/13/15	16:10		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
24	SB-20d5.5	4/14/15	8:50		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
25	SB-20d16	4/14/15	9:10		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
26	SB-20d19.5	4/14/15	9:20		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
27	SB-20d24	4/14/15	9:30		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
28	SB-20d32	4/14/15	9:45		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
29	SB-21d5.5	4/14/15	11:20		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Received by: (Signature/Affiliation) *Jonathan Fillingame* Date: 4/16/15 Time: 10:00

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_





Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110  
CITY: Rancho Cordova STATE: CA ZIP: 95670  
TEL: 916 503-1261 E-MAIL: [dennis.dettloff@anteagroup.com](mailto:dennis.dettloff@anteagroup.com)  
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
EOD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: 4/16/15  
PAGE: 4 OF 6

WFO NO. / LAB USE ONLY  
15-04-1215

CLIENT PROJECT NAME / NO.:  
BP #11117  
PROJECT CONTACT: Dennis Dettloff  
GLOBAL ID: T0600100201  
LOG CODE:  
SAMPLER(S): (PRINT) Jonathan Fillingame  
P.O. NO.: M2611117  
LAB CONTACT OR QUOTE NO.:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	CAM17 Metals
		DATE	TIME									
30	SB-21d19.5	4/14/15	11:35	Soil	1	/			X	X	X	X
31	SB-21d32	4/14/15	12:00		1	/			X	X	X	X
32	SB-21d35	4/14/15	12:20		1	/			X	X	X	X
33	SB-22d5.5	4/14/15	14:25		1	/			X	X	X	X
34	SB-22d15.5	4/14/15	14:35		1	/			X	X	X	X
35	SB-22d19.5	4/14/15	14:40		1	/			X	X	X	X
36	SB-22d29.5	4/14/15	15:00		1	/			X	X	X	X
37	SB-22d35	4/14/15	15:30		1	/			X	X	X	X
38	SB-23d5.5	4/15/15	9:00		1	/			X	X	X	X
39	SB-23d15.5	4/15/15	9:10	↓	1	/			X	X	X	X

Relinquished by: (Signature) *Jonathan Fillingame*  
Relinquished by: (Signature)  
Relinquished by: (Signature)  
Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: (Signature/Affiliation) \_\_\_\_\_ Date: 4/16/15 Time: 1000



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For courier service / sample drop off information, contact us26\_sales@eurofins.com or call us

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110  
CITY: Rancho Cordova STATE: CA ZIP: 95670  
TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
EOD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD  
DATE: 4/15/15  
PAGE: 5 OF 6

I/O NO. / LAB USE ONLY  
15-04-1216

CLIENT PROJECT NAME / NO.:  
BP #11117  
LAB CONTACT OR QUOTE NO.:  
PROJECT CONTACT:  
Dennis Dettloff  
LOG CODE:  
GLOBAL ID:  
T0600100201  
SAMPLER(S): (PRINT)  
Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filled	<input checked="" type="checkbox"/> TPH(g) <input type="checkbox"/> GRO by 8260B	<input checked="" type="checkbox"/> TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	CAM17 Metals
		DATE	TIME									
40	SB-23d22.5	4/15/15	9:20	Soil	1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
41	SB-23d25.5	4/15/15	9:30		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
42	SB-23d30.5	4/15/15	9:40		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
43	SB-23d35	4/15/15	9:50		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
44	SB-24d5.5	4/15/15	10:30		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
45	SB-24d19.5	4/15/15	10:50		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
46	SB-24d21	4/15/15	10:55		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
47	SB-24d25	4/15/15	11:10		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
48	SB-24d35	4/15/15	11:45		1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X
49	SB-25d5.5	4/15/15	13:20	↓	1	/			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X

Date: Time:  
Date: Time:  
Date: Time: 4/16/15 1000

Relinquished by: (Signature) [Signature]  
Relinquished by: (Signature)  
Relinquished by: (Signature)





1216

**FedEx** *NEW Package*  
Express *US Airbill*

FedEx Tracking Number **8064 4498 4166**

Form ID No. **0200**

**1 From**  
Date 4/19/15

Sender's Name Jonathan Fillingame Phone \_\_\_\_\_

Company Antea Group

Address 11050 White Rock Road Suite 110  
Dept./Floor/Suite/Room

City Rancho Cordova State CA ZIP 95670

**2 Your Internal Billing Reference**

**3 To**  
Recipient's Name Richard Phone 714 899-5494

Company Eurefins Cal Science

Address 7440 Lincoln Way  
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address \_\_\_\_\_  
Use this line for the HOLD location address or for continuation of your shipping address.

City Garden Grove State CA ZIP 92841

**HOLD Weekday**  
FedEx location address REQUIRED. NOT available for FedEx First Overnight.  
 **HOLD Saturday**  
FedEx location address REQUIRED. Available for FedEx Priority Overnight, FedEx Standard Overnight, and FedEx 2Day to select ZIP codes.

**4 Express Package Service** \*To most locations.  
NOTE: Service order has changed. Please select carefully.

**Next Business Day**

- FedEx First Overnight**  
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Priority Overnight**  
Next business morning.\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight**  
Next business afternoon.\* Saturday Delivery NOT available.

**2 or 3 Business Days**

- FedEx 2Day A.M.**  
Second business morning.\* Saturday Delivery NOT available.
- FedEx 2Day**  
Second business afternoon.\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver**  
Third business day.\* Saturday Delivery NOT available.

**5 Packaging** \*Declared value limit \$500.

- FedEx Envelope\*
- FedEx Pak\*
- FedEx Box
- FedEx Tube
- Other

**6 Special Handling and Delivery Signature Options**

- SATURDAY Delivery**  
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- No Signature Required**  
Package may be left without obtaining a signature for delivery.
- Direct Signature**  
Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature**  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

**Does this shipment contain dangerous goods?**

- One box must be checked.
- No
  - Yes (see instructions)
  - Yes (see instructions)
  - Dry Ice (see instructions)
  - Cargo Aircraft Only

**Payment Bill to:** Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender (No. in Section 4 may be billed)  Recipient  Third Party  Credit Card  Cash/Check

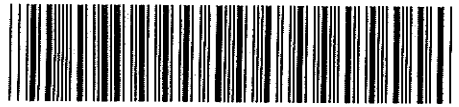
Total Packages 2 Total Weight 111.20 lbs

Our liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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8064 4498 4166

TRK# **8064 4498 4166**

## MASTER ##

**92 APVA**

**STANDARD OVERNIGHT**

92841  
CA-US SNA

FedEx 2 of 2

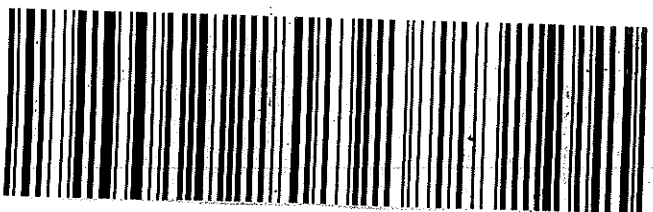
MPS# **7805 0767 0258**

Mstr# **8064 4498 4166**

**92 APVA**

THU - 16 APR AA  
**STANDARD OVERNIGHT**

92841





SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: Antea

DATE: 04/16/2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.4 °C (w/ CF): 3.1 °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  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter

Checked by: 15

CUSTODY SEAL:

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 15

Checked by: 965

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

(Trip Blank Lot Number: \_\_\_\_\_)

Aqueous:  VOA  VOA<sup>h</sup>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sup>h</sup>  125AGB<sup>p</sup>  125PB  
 125PB<sup>z</sup>  250AGB  250CGB  250CGB<sup>s</sup>  250PB  250PB<sup>n</sup>  500AGB  500AGJ  500AGJ<sup>s</sup>  
 500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sup>s</sup>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
 Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (PM)  Sleeve (RM)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_  
 Air:  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>,

s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>na</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH

Labeled/Checked by: 965

Reviewed by: 681

Return to Contents

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: Antea

DATE: 04 / 16 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.5 °C (w/ CF): 3.2 °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

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature:  Air  Filter

Checked by: 15

CUSTODY SEAL:

Cooler  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 15

Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A

Checked by: 965

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples .....  Yes  No  N/A

COC document(s) received complete .....  Yes  No  N/A

Sampling date  Sampling time  Matrix  Number of containers

No analysis requested  Not relinquished  No relinquished date  No relinquished time

Sampler's name indicated on COC .....  Yes  No  N/A

Sample container label(s) consistent with COC .....  Yes  No  N/A

Sample container(s) intact and in good condition .....  Yes  No  N/A

Proper containers for analyses requested .....  Yes  No  N/A

Sufficient volume/mass for analyses requested .....  Yes  No  N/A

Samples received within holding time .....  Yes  No  N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH  Residual Chlorine  Dissolved Sulfide  Dissolved Oxygen .....  Yes  No  N/A

Proper preservation chemical(s) noted on COC and/or sample container .....  Yes  No  N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics  Total Metals  Dissolved Metals

Container(s) for certain analysis free of headspace .....  Yes  No  N/A

Volatile Organics  Dissolved Gases (RSK-175)  Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500)  Ferrous Iron (SM 3500)  Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation .....  Yes  No  N/A

CONTAINER TYPE:

(Trip Blank Lot Number: \_\_\_\_\_)

Aqueous:  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB

125PB<sub>z<sub>na</sub></sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>

500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_)  TerraCores® (\_\_\_\_)  \_\_\_\_\_

Air:  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 0165

s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>na</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH

Reviewed by: 681

**SAMPLE ANOMALY REPORT**

DATE: 04 / 16 / 2015

SAMPLES, CONTAINERS, AND LABELS:	Comments
<input type="checkbox"/> Sample(s) NOT RECEIVED but listed on COC	
<input type="checkbox"/> Sample(s) received but NOT LISTED on COC	
<input type="checkbox"/> Holding time expired (list client or ECI sample ID and analysis)	
<input type="checkbox"/> Insufficient sample amount for requested analysis (list analysis)	
<input type="checkbox"/> Improper container(s) used (list analysis)	
<input type="checkbox"/> Improper preservative used (list analysis)	
<input type="checkbox"/> No preservative noted on COC or label (list analysis and notify lab)	
<input type="checkbox"/> Sample container(s) not labeled	
<input type="checkbox"/> Client sample label(s) illegible (list container type and analysis)	
<input checked="" type="checkbox"/> Client sample label(s) do not match COC (comment)	(-21) sample id per label is: SB-19d 29.5  collection date & time matched.
<input type="checkbox"/> Project information	
<input checked="" type="checkbox"/> Client sample ID	
<input type="checkbox"/> Sampling date and/or time	
<input type="checkbox"/> Number of container(s)	
<input type="checkbox"/> Requested analysis	
<input checked="" type="checkbox"/> Sample container(s) compromised (comment)	(-1) and (-4) 1 of 3 vials received broken.
<input checked="" type="checkbox"/> Broken	
<input type="checkbox"/> Water present in sample container	
<input type="checkbox"/> Air sample container(s) compromised (comment)	
<input type="checkbox"/> Flat	
<input type="checkbox"/> Very low in volume	
<input type="checkbox"/> Leaking (not transferred; duplicate bag submitted)	
<input type="checkbox"/> Leaking (transferred into ECI Tedlar™ bags*)	
<input type="checkbox"/> Leaking (transferred into client's Tedlar™ bags*)	

**MISCELLANEOUS: (Describe)**

**Comments**

**HEADSPACE:**

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**
1	B	2			
6	C	3			
7	A-B	3			

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: \_\_\_\_\_

Reported by: 965  
 Reviewed by: 601

\*\* Record the total number of containers (i.e., vials or bottles) for the affected sample.



Is the Data Valid?

(circle)

Yes / No

Preservation Temperature  
(if Known): 3.1 °C

## Antea Group Lab Validation Sheet

Project/Client: COP/ELT

Project #: 142611117

Date of Validation: 6/26/15 Date of Analysis: 4/26/15 Sample Date: 4/13/15

Completed By: Jon F. Signature: *Jonathan F. [Signature]*

Analytical Lab Used and Report # (if any): Calscience 15-04-1216

- |   | Circle or Highlight Yes/No below          |
|---|---|
| 1. Was the analysis the one requested?  | <input checked="" type="radio"/> Yes / No |
| 2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?                           | <input checked="" type="radio"/> Yes / No |
| 3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?  | <input checked="" type="radio"/> Yes / No |
| 4. Once prepared/extracted, were the samples analyzed within the EPA holding times?   | <input checked="" type="radio"/> Yes / No |
| 5. Were Laboratory blanks performed, if so, were they below non-detect?   | <input checked="" type="radio"/> Yes / No |
| 6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m <sup>3</sup> , etc.) | <input checked="" type="radio"/> Yes / No |
| 7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?                       | <input checked="" type="radio"/> Yes / No |
| 8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?         | Yes / No N/a                              |
| 9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?                            | Yes / <input checked="" type="radio"/> No |
| 10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?   | <input checked="" type="radio"/> Yes / No |
| 11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?   | Yes / <input checked="" type="radio"/> No |

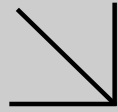
If any answer is no, explain why and what corrective action was taken:

9. Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. (Antimony, Lead, Nickel, Selenium, Vanadium, Zinc, TPHd, benzene, toluene, MTBE, 1,2-DCA, Trichloroethene, DIPE).

11. The MS/MSD RPD was out of control due to suspected matrix interference. (Mercury, TPHd, benzene, toluene, Ethanol) 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. (Barium)



Calscience



**WORK ORDER NUMBER: 15-04-1356**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Antea Group

**Client Project Name:** BP #11117

**Attention:** Dennis Dettloff  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Approved for release on 04/27/2015 by:  
Richard Villafania  
Project Manager

ResultLink ▶

Email your PM ▶



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# Contents

Client Project Name: BP #11117

Work Order Number: 15-04-1356

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 04/17/15. They were assigned to Work Order 15-04-1356.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3510C  
Method: EPA 8015B (M)  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-26GW</b>	<b>15-04-1356-6-D</b>	<b>04/16/15 09:10</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/20/15</b>	<b>04/22/15 09:25</b>	<b>150420B18A</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		750000		19000		100	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		99		68-140			
<b>SB-27GW</b>	<b>15-04-1356-13-D</b>	<b>04/16/15 10:40</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/20/15</b>	<b>04/22/15 09:43</b>	<b>150420B18A</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		60000		1400		25.0	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		78		68-140			
<b>SB-28GW</b>	<b>15-04-1356-18-D</b>	<b>04/16/15 12:10</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/20/15</b>	<b>04/21/15 20:46</b>	<b>150420B18A</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		11000		170		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		78		68-140			
<b>Method Blank</b>	<b>099-15-304-1015</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>04/20/15</b>	<b>04/21/15 19:16</b>	<b>150420B18A</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		69		68-140			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-26d5.5</b>	<b>15-04-1356-1-A</b>	<b>04/16/15 07:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 04:31</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			
<b>SB-26d18</b>	<b>15-04-1356-2-A</b>	<b>04/16/15 08:20</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 04:49</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		16		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		98		61-145			
<b>SB-26d25</b>	<b>15-04-1356-3-A</b>	<b>04/16/15 08:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 05:07</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		60		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-26d30</b>	<b>15-04-1356-4-A</b>	<b>04/16/15 08:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 05:25</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		340		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-26d35</b>	<b>15-04-1356-5-A</b>	<b>04/16/15 08:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 05:42</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		320		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-27d5.5</b>	<b>15-04-1356-7-A</b>	<b>04/16/15 09:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 05:59</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		96		61-145			
<b>SB-27d14</b>	<b>15-04-1356-8-A</b>	<b>04/16/15 09:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 06:17</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		870		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-27d19</b>	<b>15-04-1356-9-A</b>	<b>04/16/15 09:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/24/15 13:01</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		38000		490		100	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		82		61-145			
<b>SB-27d25</b>	<b>15-04-1356-10-A</b>	<b>04/16/15 10:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 06:52</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		5.9		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>SB-27d30</b>	<b>15-04-1356-11-A</b>	<b>04/16/15 10:10</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 07:09</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		240		4.9		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-27d35</b>	<b>15-04-1356-12-A</b>	<b>04/16/15 10:20</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 07:44</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-28d5.5</b>	<b>15-04-1356-14-A</b>	<b>04/16/15 11:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 08:02</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-28d20</b>	<b>15-04-1356-15-A</b>	<b>04/16/15 11:20</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 08:20</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-28d27</b>	<b>15-04-1356-16-A</b>	<b>04/16/15 11:40</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 08:37</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		340		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		91		61-145			
<b>SB-28d32</b>	<b>15-04-1356-17-A</b>	<b>04/16/15 11:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 08:55</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		43		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3550B  
Method: EPA 8015B (M)  
Units: mg/kg

Project: BP #11117

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-29d5.5</b>	<b>15-04-1356-19-A</b>	<b>04/16/15 13:10</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 09:13</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		4.9		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		88		61-145			
<b>SB-29d12</b>	<b>15-04-1356-20-A</b>	<b>04/16/15 13:30</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 09:31</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		460		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		92		61-145			
<b>SB-29d18</b>	<b>15-04-1356-21-A</b>	<b>04/16/15 13:50</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 09:48</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		140		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		90		61-145			
<b>SB-29d20</b>	<b>15-04-1356-22-A</b>	<b>04/16/15 14:00</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 10:05</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		95		5.0		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		93		61-145			
<b>Method Blank</b>	<b>099-15-422-1745</b>	<b>N/A</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 03:21</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		78		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

Page 1 of 20

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d5.5	15-04-1356-1-A	04/16/15 07:50	Solid	ICP 7300	04/23/15	04/23/15 21:43	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	5.83	0.754	1.01	
Barium	105	0.503	1.01	
Beryllium	0.309	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	31.5	0.251	1.01	
Cobalt	15.4	0.251	1.01	
Copper	33.5	0.503	1.01	
Lead	46.4	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	41.5	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	64.7	0.251	1.01	
Zinc	49.1	1.01	1.01	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d18	15-04-1356-2-A	04/16/15 08:20	Solid	ICP 7300	04/23/15	04/23/15 21:44	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	5.92	0.732	0.976	
Barium	158	0.488	0.976	
Beryllium	0.370	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	39.9	0.244	0.976	
Cobalt	10.5	0.244	0.976	
Copper	19.6	0.488	0.976	
Lead	5.47	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	41.4	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	46.9	0.244	0.976	
Zinc	39.1	0.976	0.976	



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d25	15-04-1356-3-A	04/16/15 08:30	Solid	ICP 7300	04/23/15	04/23/15 21:45	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	6.85	0.765	1.02	
Barium	155	0.510	1.02	
Beryllium	0.359	0.255	1.02	
Cadmium	ND	0.510	1.02	
Chromium	37.4	0.255	1.02	
Cobalt	8.29	0.255	1.02	
Copper	19.2	0.510	1.02	
Lead	6.68	0.510	1.02	
Molybdenum	1.20	0.255	1.02	
Nickel	35.5	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	37.2	0.255	1.02	
Zinc	41.8	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d30	15-04-1356-4-A	04/16/15 08:40	Solid	ICP 7300	04/23/15	04/23/15 21:46	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	7.02	0.732	0.976	
Barium	139	0.488	0.976	
Beryllium	0.350	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	29.3	0.244	0.976	
Cobalt	11.1	0.244	0.976	
Copper	16.9	0.488	0.976	
Lead	7.37	0.488	0.976	
Molybdenum	0.397	0.244	0.976	
Nickel	37.5	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	37.2	0.244	0.976	
Zinc	41.6	0.976	0.976	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d35	15-04-1356-5-A	04/16/15 08:50	Solid	ICP 7300	04/23/15	04/23/15 21:52	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	1.04	0.743	0.990	
Arsenic	5.50	0.743	0.990	
Barium	134	0.495	0.990	
Beryllium	0.261	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	56.7	0.248	0.990	
Cobalt	11.2	0.248	0.990	
Copper	14.5	0.495	0.990	
Lead	5.02	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	52.3	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	44.7	0.248	0.990	
Zinc	41.7	0.990	0.990	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d5.5	15-04-1356-7-A	04/16/15 09:30	Solid	ICP 7300	04/23/15	04/23/15 21:53	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	4.50	0.750	1.00	
Barium	110	0.500	1.00	
Beryllium	0.268	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	40.9	0.250	1.00	
Cobalt	11.1	0.250	1.00	
Copper	19.5	0.500	1.00	
Lead	4.73	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	32.8	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	50.8	0.250	1.00	
Zinc	26.5	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d14	15-04-1356-8-A	04/16/15 09:40	Solid	ICP 7300	04/23/15	04/23/15 21:55	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	4.67	0.746	0.995	
Barium	122	0.498	0.995	
Beryllium	0.320	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	34.8	0.249	0.995	
Cobalt	9.31	0.249	0.995	
Copper	16.1	0.498	0.995	
Lead	5.97	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	36.6	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	31.4	0.249	0.995	
Zinc	34.4	0.995	0.995	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d19	15-04-1356-9-A	04/16/15 09:50	Solid	ICP 7300	04/23/15	04/23/15 21:56	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	0.730	0.721	0.962	
Arsenic	4.48	0.721	0.962	
Barium	107	0.481	0.962	
Beryllium	0.306	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	21.0	0.240	0.962	
Cobalt	7.78	0.240	0.962	
Copper	15.8	0.481	0.962	
Lead	7.24	0.481	0.962	
Molybdenum	0.306	0.240	0.962	
Nickel	29.3	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	28.3	0.240	0.962	
Zinc	37.6	0.962	0.962	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d25	15-04-1356-10-A	04/16/15 10:00	Solid	ICP 7300	04/23/15	04/23/15 21:57	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.71	0.743	0.990	
Barium	114	0.495	0.990	
Beryllium	0.341	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	29.5	0.248	0.990	
Cobalt	9.76	0.248	0.990	
Copper	13.0	0.495	0.990	
Lead	7.38	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	31.7	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	25.8	0.248	0.990	
Zinc	35.6	0.990	0.990	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d30	15-04-1356-11-A	04/16/15 10:10	Solid	ICP 7300	04/23/15	04/23/15 21:58	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Arsenic	5.63	0.773	1.03	
Barium	121	0.515	1.03	
Beryllium	0.269	0.258	1.03	
Cadmium	ND	0.515	1.03	
Chromium	35.5	0.258	1.03	
Cobalt	10.1	0.258	1.03	
Copper	16.9	0.515	1.03	
Lead	3.95	0.515	1.03	
Molybdenum	ND	0.258	1.03	
Nickel	38.0	0.258	1.03	
Selenium	ND	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	37.9	0.258	1.03	
Zinc	34.5	1.03	1.03	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d35	15-04-1356-12-A	04/16/15 10:20	Solid	ICP 7300	04/23/15	04/23/15 21:59	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	4.33	0.750	1.00	
Barium	121	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	23.1	0.250	1.00	
Cobalt	7.33	0.250	1.00	
Copper	10.8	0.500	1.00	
Lead	3.97	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	28.2	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	27.4	0.250	1.00	
Zinc	31.3	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d5.5	15-04-1356-14-A	04/16/15 11:00	Solid	ICP 7300	04/23/15	04/23/15 22:00	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	4.95	0.758	1.01	
Barium	95.1	0.505	1.01	
Beryllium	0.321	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	40.1	0.253	1.01	
Cobalt	9.39	0.253	1.01	
Copper	19.9	0.505	1.01	
Lead	16.5	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	39.0	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	49.4	0.253	1.01	
Zinc	33.0	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d20	15-04-1356-15-A	04/16/15 11:20	Solid	ICP 7300	04/23/15	04/23/15 22:01	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	4.37	0.754	1.01	
Barium	2050	0.503	1.01	
Beryllium	0.360	0.251	1.01	
Cadmium	6.32	0.503	1.01	
Chromium	29.2	0.251	1.01	
Cobalt	14.1	0.251	1.01	
Copper	18.0	0.503	1.01	
Lead	8.42	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	260	0.251	1.01	
Selenium	5.45	0.754	1.01	
Silver	1.69	0.251	1.01	
Thallium	2.44	0.754	1.01	
Vanadium	43.8	0.251	1.01	
Zinc	130	1.01	1.01	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d27	15-04-1356-16-A	04/16/15 11:40	Solid	ICP 7300	04/23/15	04/23/15 22:03	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	5.64	0.750	1.00	
Barium	129	0.500	1.00	
Beryllium	0.322	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	31.9	0.250	1.00	
Cobalt	11.1	0.250	1.00	
Copper	16.4	0.500	1.00	
Lead	6.00	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	35.9	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	34.8	0.250	1.00	
Zinc	34.9	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d32	15-04-1356-17-A	04/16/15 11:50	Solid	ICP 7300	04/23/15	04/23/15 22:09	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	6.03	0.750	1.00	
Barium	194	0.500	1.00	
Beryllium	0.399	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	40.8	0.250	1.00	
Cobalt	10.7	0.250	1.00	
Copper	20.4	0.500	1.00	
Lead	7.55	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	48.7	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	35.8	0.250	1.00	
Zinc	53.4	1.00	1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d5.5	15-04-1356-19-A	04/16/15 13:10	Solid	ICP 7300	04/23/15	04/23/15 22:10	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	7.20	0.735	0.980	
Barium	76.5	0.490	0.980	
Beryllium	0.248	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	29.6	0.245	0.980	
Cobalt	9.64	0.245	0.980	
Copper	26.9	0.490	0.980	
Lead	25.2	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	39.5	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	51.5	0.245	0.980	
Zinc	75.3	0.980	0.980	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d12	15-04-1356-20-A	04/16/15 13:30	Solid	ICP 7300	04/23/15	04/23/15 22:11	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	5.33	0.735	0.980	
Barium	76.8	0.490	0.980	
Beryllium	0.247	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	37.1	0.245	0.980	
Cobalt	14.1	0.245	0.980	
Copper	15.3	0.490	0.980	
Lead	15.6	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	54.0	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	42.3	0.245	0.980	
Zinc	38.0	0.980	0.980	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group	Date Received:	04/17/15
11050 White Rock Rd. Suite# 110	Work Order:	15-04-1356
Rancho Cordova, CA 95670-6001	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg

Project: BP #11117 Page 18 of 20

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d18	15-04-1356-21-A	04/16/15 13:50	Solid	ICP 7300	04/23/15	04/23/15 22:12	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	5.35	0.735	0.980	
Barium	121	0.490	0.980	
Beryllium	0.302	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	23.4	0.245	0.980	
Cobalt	8.20	0.245	0.980	
Copper	15.8	0.490	0.980	
Lead	14.5	0.490	0.980	
Molybdenum	0.312	0.245	0.980	
Nickel	35.6	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	32.4	0.245	0.980	
Zinc	44.7	0.980	0.980	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d20	15-04-1356-22-A	04/16/15 14:00	Solid	ICP 7300	04/23/15	04/23/15 22:13	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.06	0.743	0.990	
Barium	126	0.495	0.990	
Beryllium	0.250	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	38.2	0.248	0.990	
Cobalt	7.48	0.248	0.990	
Copper	12.4	0.495	0.990	
Lead	5.79	0.495	0.990	
Molybdenum	1.24	0.248	0.990	
Nickel	30.7	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	29.7	0.248	0.990	
Zinc	43.4	0.990	0.990	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20850	N/A	Solid	ICP 7300	04/23/15	04/23/15 21:37	150423L01

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	ND	0.746	0.995	
Barium	ND	0.498	0.995	
Beryllium	ND	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	ND	0.249	0.995	
Cobalt	ND	0.249	0.995	
Copper	ND	0.498	0.995	
Lead	ND	0.498	0.995	
Molybdenum	ND	0.249	0.995	
Nickel	ND	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	ND	0.249	0.995	
Zinc	ND	0.995	0.995	


  
Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-26d5.5</b>	<b>15-04-1356-1-A</b>	<b>04/16/15 07:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:24</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.133		0.0820		1.00	
<b>SB-26d18</b>	<b>15-04-1356-2-A</b>	<b>04/16/15 08:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:26</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0839		0.0794		1.00	
<b>SB-26d25</b>	<b>15-04-1356-3-A</b>	<b>04/16/15 08:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:29</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-26d30</b>	<b>15-04-1356-4-A</b>	<b>04/16/15 08:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:31</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.170		0.0847		1.00	
<b>SB-26d35</b>	<b>15-04-1356-5-A</b>	<b>04/16/15 08:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:33</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-27d5.5</b>	<b>15-04-1356-7-A</b>	<b>04/16/15 09:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:40</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-27d14</b>	<b>15-04-1356-8-A</b>	<b>04/16/15 09:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:42</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	
<b>SB-27d19</b>	<b>15-04-1356-9-A</b>	<b>04/16/15 09:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:44</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-27d25</b>	<b>15-04-1356-10-A</b>	<b>04/16/15 10:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:17</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-27d30</b>	<b>15-04-1356-11-A</b>	<b>04/16/15 10:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:46</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.160		0.0794		1.00	
<b>SB-27d35</b>	<b>15-04-1356-12-A</b>	<b>04/16/15 10:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:48</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>SB-28d5.5</b>	<b>15-04-1356-14-A</b>	<b>04/16/15 11:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:51</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0878		0.0806		1.00	
<b>SB-28d20</b>	<b>15-04-1356-15-A</b>	<b>04/16/15 11:20</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:53</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.0854		0.0806		1.00	
<b>SB-28d27</b>	<b>15-04-1356-16-A</b>	<b>04/16/15 11:40</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:55</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-28d32</b>	<b>15-04-1356-17-A</b>	<b>04/16/15 11:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:57</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0862		1.00	
<b>SB-29d5.5</b>	<b>15-04-1356-19-A</b>	<b>04/16/15 13:10</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 16:00</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		0.314		0.0794		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>SB-29d12</b>	<b>15-04-1356-20-A</b>	<b>04/16/15 13:30</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 16:06</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0806		1.00	
<b>SB-29d18</b>	<b>15-04-1356-21-A</b>	<b>04/16/15 13:50</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 16:09</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0794		1.00	
<b>SB-29d20</b>	<b>15-04-1356-22-A</b>	<b>04/16/15 14:00</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 16:11</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0820		1.00	
<b>Method Blank</b>	<b>099-16-272-1186</b>	<b>N/A</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:13</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.0833		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26GW	15-04-1356-6-A	04/16/15 09:10	Aqueous	GC/MS W	04/23/15	04/24/15 09:54	150423L036

Parameter	Result	RL	DF	Qualifiers
Benzene	2100	500	1000	
1,2-Dibromoethane	ND	1000	1000	
1,2-Dichloroethane	ND	500	1000	
Ethylbenzene	28000	1000	1000	
Toluene	1200	1000	1000	
p/m-Xylene	91000	1000	1000	
o-Xylene	18000	1000	1000	
Methyl-t-Butyl Ether (MTBE)	ND	1000	1000	
Tert-Butyl Alcohol (TBA)	ND	10000	1000	
Diisopropyl Ether (DIPE)	ND	2000	1000	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	1000	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	1000	
Ethanol	ND	100000	1000	
TPPH	2300000	50000	1000	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	78-126		
1,2-Dichloroethane-d4	93	75-135		
Toluene-d8	98	80-120		
Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	98	80-120		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27GW	15-04-1356-13-A	04/16/15 10:40	Aqueous	GC/MS W	04/23/15	04/24/15 10:24	150423L036

Parameter	Result	RL	DF	Qualifiers
Benzene	5200	50	100	
1,2-Dibromoethane	ND	100	100	
1,2-Dichloroethane	ND	50	100	
Ethylbenzene	3000	100	100	
Toluene	12000	100	100	
p/m-Xylene	11000	100	100	
o-Xylene	4200	100	100	
Methyl-t-Butyl Ether (MTBE)	780	100	100	
Tert-Butyl Alcohol (TBA)	9800	1000	100	
Diisopropyl Ether (DIPE)	ND	200	100	
Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Ethanol	ND	10000	100	
TPPH	130000	5000	100	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	78-126		
1,2-Dichloroethane-d4	97	75-135		
Toluene-d8	101	80-120		
Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	101	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28GW	15-04-1356-18-A	04/16/15 12:10	Aqueous	GC/MS W	04/23/15	04/24/15 10:53	150423L036

Parameter	Result	RL	DF	Qualifiers
Benzene	730	5.0	10.0	
1,2-Dibromoethane	ND	10	10.0	
1,2-Dichloroethane	ND	5.0	10.0	
Ethylbenzene	420	10	10.0	
Toluene	210	10	10.0	
p/m-Xylene	1100	10	10.0	
o-Xylene	330	10	10.0	
Methyl-t-Butyl Ether (MTBE)	18	10	10.0	
Tert-Butyl Alcohol (TBA)	450	100	10.0	
Diisopropyl Ether (DIPE)	ND	20	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	10.0	
Ethanol	ND	1000	10.0	
TPPH	17000	500	10.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	99	78-126		
1,2-Dichloroethane-d4	97	75-135		
Toluene-d8	100	80-120		
Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	101	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/L

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6882	N/A	Aqueous	GC/MS W	04/23/15	04/24/15 04:32	150423L036

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
TPPH	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	93	75-135	
Toluene-d8	100	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d5.5	15-04-1356-1-A	04/16/15 07:50	Solid	GC/MS R	04/20/15	04/24/15 00:13	150423L010

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	94	63-141		
1,2-Dichloroethane-d4	90	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	88	60-132		
Toluene-d8-TPPH	102	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d18	15-04-1356-2-A	04/16/15 08:20	Solid	GC/MS R	04/20/15	04/23/15 01:24	150422L022

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	86	63-141	
1,2-Dichloroethane-d4	70	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	88	60-132	
Toluene-d8-TPPH	102	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d25	15-04-1356-3-A	04/16/15 08:30	Solid	GC/MS R	04/20/15	04/23/15 01:52	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	ND	1000	100	
Toluene	ND	1000	100	
p/m-Xylene	ND	1000	100	
o-Xylene	ND	1000	100	
Methyl-t-Butyl Ether (MTBE)	ND	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	
TPPH	320000	100000	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	88	63-141	
1,2-Dichloroethane-d4	71	62-146	
Toluene-d8	105	80-120	
1,4-Bromofluorobenzene	89	60-132	
Toluene-d8-TPPH	106	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d30	15-04-1356-4-A	04/16/15 08:40	Solid	GC/MS R	04/20/15	04/24/15 00:41	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	2500	250	
1,2-Dibromoethane	ND	2500	250	
1,2-Dichloroethane	ND	2500	250	
Ethylbenzene	6400	2500	250	
Toluene	ND	2500	250	
p/m-Xylene	9800	2500	250	
o-Xylene	ND	2500	250	
Methyl-t-Butyl Ether (MTBE)	ND	2500	250	
Tert-Butyl Alcohol (TBA)	ND	25000	250	
Diisopropyl Ether (DIPE)	ND	5000	250	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	250	
Tert-Amyl-Methyl Ether (TAME)	ND	5000	250	
Ethanol	ND	250000	250	
TPPH	730000	250000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	91	63-141		
1,2-Dichloroethane-d4	92	62-146		
Toluene-d8	106	80-120		
1,4-Bromofluorobenzene	92	60-132		
Toluene-d8-TPPH	108	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-26d35	15-04-1356-5-A	04/16/15 08:50	Solid	GC/MS OO	04/20/15	04/24/15 22:19	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5000	500	
1,2-Dibromoethane	ND	5000	500	
1,2-Dichloroethane	ND	5000	500	
Ethylbenzene	23000	5000	500	
Toluene	13000	5000	500	
p/m-Xylene	77000	5000	500	
o-Xylene	25000	5000	500	
Methyl-t-Butyl Ether (MTBE)	ND	5000	500	
Tert-Butyl Alcohol (TBA)	ND	50000	500	
Diisopropyl Ether (DIPE)	ND	10000	500	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	500	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	500	
Ethanol	ND	500000	500	
TPPH	2000000	500000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	98	63-141		
1,2-Dichloroethane-d4	93	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	98	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d5.5	15-04-1356-7-A	04/16/15 09:30	Solid	GC/MS OO	04/24/15	04/24/15 17:04	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	6.3	4.8	1.00	
1,2-Dibromoethane	ND	4.8	1.00	
1,2-Dichloroethane	ND	4.8	1.00	
Ethylbenzene	ND	4.8	1.00	
Toluene	8.2	4.8	1.00	
p/m-Xylene	6.0	4.8	1.00	
o-Xylene	ND	4.8	1.00	
Methyl-t-Butyl Ether (MTBE)	5.6	4.8	1.00	
Tert-Butyl Alcohol (TBA)	400	48	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	480	1.00	
TPPH	ND	480	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	102	63-141		
1,2-Dichloroethane-d4	99	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	96	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d14	15-04-1356-8-A	04/16/15 09:40	Solid	GC/MS OO	04/20/15	04/24/15 22:47	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5200	500	
1,2-Dibromoethane	ND	5200	500	
1,2-Dichloroethane	ND	5200	500	
Ethylbenzene	49000	5200	500	
Toluene	31000	5200	500	
p/m-Xylene	190000	5200	500	
o-Xylene	75000	5200	500	
Methyl-t-Butyl Ether (MTBE)	ND	5200	500	
Tert-Butyl Alcohol (TBA)	ND	52000	500	
Diisopropyl Ether (DIPE)	ND	10000	500	
Ethyl-t-Butyl Ether (ETBE)	ND	10000	500	
Tert-Amyl-Methyl Ether (TAME)	ND	10000	500	
Ethanol	ND	520000	500	
TPPH	2600000	520000	500	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	95	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d19	15-04-1356-9-A	04/16/15 09:50	Solid	GC/MS OO	04/20/15	04/24/15 23:16	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	120000	26000	2500	
1,2-Dibromoethane	ND	26000	2500	
1,2-Dichloroethane	ND	26000	2500	
Ethylbenzene	290000	26000	2500	
Toluene	710000	26000	2500	
p/m-Xylene	1100000	26000	2500	
o-Xylene	400000	26000	2500	
Methyl-t-Butyl Ether (MTBE)	ND	26000	2500	
Tert-Butyl Alcohol (TBA)	ND	260000	2500	
Diisopropyl Ether (DIPE)	ND	51000	2500	
Ethyl-t-Butyl Ether (ETBE)	ND	51000	2500	
Tert-Amyl-Methyl Ether (TAME)	ND	51000	2500	
Ethanol	ND	2600000	2500	
TPPH	15000000	2600000	2500	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d25	15-04-1356-10-A	04/16/15 10:00	Solid	GC/MS OO	04/20/15	04/24/15 23:44	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	2400	490	50.0	
1,2-Dibromoethane	ND	490	50.0	
1,2-Dichloroethane	ND	490	50.0	
Ethylbenzene	1300	490	50.0	
Toluene	5300	490	50.0	
p/m-Xylene	5300	490	50.0	
o-Xylene	2100	490	50.0	
Methyl-t-Butyl Ether (MTBE)	2200	490	50.0	
Tert-Butyl Alcohol (TBA)	ND	4900	50.0	
Diisopropyl Ether (DIPE)	ND	990	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	990	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	990	50.0	
Ethanol	ND	49000	50.0	
TPPH	64000	49000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	98	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d30	15-04-1356-11-A	04/16/15 10:10	Solid	GC/MS OO	04/20/15	04/25/15 00:13	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	1300	1300	125	
1,2-Dibromoethane	ND	1300	125	
1,2-Dichloroethane	ND	1300	125	
Ethylbenzene	9500	1300	125	
Toluene	17000	1300	125	
p/m-Xylene	37000	1300	125	
o-Xylene	15000	1300	125	
Methyl-t-Butyl Ether (MTBE)	ND	1300	125	
Tert-Butyl Alcohol (TBA)	ND	13000	125	
Diisopropyl Ether (DIPE)	ND	2500	125	
Ethyl-t-Butyl Ether (ETBE)	ND	2500	125	
Tert-Amyl-Methyl Ether (TAME)	ND	2500	125	
Ethanol	ND	130000	125	
TPPH	700000	130000	125	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	96	63-141		
1,2-Dichloroethane-d4	93	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-27d35	15-04-1356-12-A	04/16/15 10:20	Solid	GC/MS OO	04/24/15	04/24/15 20:24	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	420	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	96	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d5.5	15-04-1356-14-A	04/16/15 11:00	Solid	GC/MS OO	04/20/15	04/23/15 07:48	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	100	63-141		
1,2-Dichloroethane-d4	102	62-146		
Toluene-d8	98	80-120		
1,4-Bromofluorobenzene	97	60-132		
Toluene-d8-TPPH	94	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d20	15-04-1356-15-A	04/16/15 11:20	Solid	GC/MS OO	04/20/15	04/24/15 19:27	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.1	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	510	1.00	
TPPH	ND	510	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	103	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	95	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d27	15-04-1356-16-A	04/16/15 11:40	Solid	GC/MS OO	04/20/15	04/24/15 20:53	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	2600	250	
1,2-Dibromoethane	ND	2600	250	
1,2-Dichloroethane	ND	2600	250	
Ethylbenzene	14000	2600	250	
Toluene	ND	2600	250	
p/m-Xylene	46000	2600	250	
o-Xylene	11000	2600	250	
Methyl-t-Butyl Ether (MTBE)	ND	2600	250	
Tert-Butyl Alcohol (TBA)	ND	26000	250	
Diisopropyl Ether (DIPE)	ND	5200	250	
Ethyl-t-Butyl Ether (ETBE)	ND	5200	250	
Tert-Amyl-Methyl Ether (TAME)	ND	5200	250	
Ethanol	ND	260000	250	
TPPH	1100000	260000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	95	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d32	15-04-1356-17-A	04/16/15 11:50	Solid	GC/MS OO	04/20/15	04/23/15 23:00	150423L044

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	540	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	2300	500	50.0	
o-Xylene	690	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	78000	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	97	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	100	60-132	
Toluene-d8-TPPH	97	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d5.5	15-04-1356-19-A	04/16/15 13:10	Solid	GC/MS OO	04/20/15	04/24/15 19:55	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	4.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	150	4.9	1.00	
Tert-Butyl Alcohol (TBA)	200	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	490	1.00	
TPPH	ND	490	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	101	63-141		
1,2-Dichloroethane-d4	102	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	95	87-111		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d12	15-04-1356-20-A	04/16/15 13:30	Solid	GC/MS OO	04/20/15	04/23/15 23:57	150423L044

Parameter	Result	RL	DF	Qualifiers
Benzene	1200	510	50.0	
1,2-Dibromoethane	ND	510	50.0	
1,2-Dichloroethane	ND	510	50.0	
Ethylbenzene	15000	510	50.0	
Toluene	ND	510	50.0	
p/m-Xylene	1500	510	50.0	
o-Xylene	ND	510	50.0	
Methyl-t-Butyl Ether (MTBE)	850	510	50.0	
Tert-Butyl Alcohol (TBA)	ND	5100	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	51000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	95	62-146	
Toluene-d8	104	80-120	
1,4-Bromofluorobenzene	103	60-132	
Toluene-d8-TPPH	102	87-111	

SB-29d12	15-04-1356-20-A	04/16/15 13:30	Solid	GC/MS OO	04/20/15	04/24/15 21:21	150424L027
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Parameter	Result	RL	DF	Qualifiers
TPPH	1500000	260000	250	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	100	60-132	
Toluene-d8-TPPH	97	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d18	15-04-1356-21-A	04/16/15 13:50	Solid	GC/MS OO	04/20/15	04/24/15 00:26	150423L044

Parameter	Result	RL	DF	Qualifiers
Benzene	4800	2500	250	
1,2-Dibromoethane	ND	2500	250	
1,2-Dichloroethane	ND	2500	250	
Ethylbenzene	24000	2500	250	
Toluene	3300	2500	250	
p/m-Xylene	86000	2500	250	
o-Xylene	31000	2500	250	
Methyl-t-Butyl Ether (MTBE)	ND	2500	250	
Tert-Butyl Alcohol (TBA)	ND	25000	250	
Diisopropyl Ether (DIPE)	ND	5000	250	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	250	
Tert-Amyl-Methyl Ether (TAME)	ND	5000	250	
Ethanol	ND	250000	250	
TPPH	1300000	250000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	95	62-146		
Toluene-d8	101	80-120		
1,4-Bromofluorobenzene	100	60-132		
Toluene-d8-TPPH	98	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-29d20	15-04-1356-22-A	04/16/15 14:00	Solid	GC/MS OO	04/20/15	04/24/15 21:50	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	1100	1000	100	
1,2-Dibromoethane	ND	1000	100	
1,2-Dichloroethane	ND	1000	100	
Ethylbenzene	8700	1000	100	
Toluene	9400	1000	100	
p/m-Xylene	33000	1000	100	
o-Xylene	12000	1000	100	
Methyl-t-Butyl Ether (MTBE)	ND	1000	100	
Tert-Butyl Alcohol (TBA)	ND	10000	100	
Diisopropyl Ether (DIPE)	ND	2000	100	
Ethyl-t-Butyl Ether (ETBE)	ND	2000	100	
Tert-Amyl-Methyl Ether (TAME)	ND	2000	100	
Ethanol	ND	100000	100	
TPPH	1300000	250000	250	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	95	63-141		
1,2-Dichloroethane-d4	93	62-146		
Toluene-d8	100	80-120		
1,4-Bromofluorobenzene	99	60-132		
Toluene-d8-TPPH	97	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1853	N/A	Solid	GC/MS R	04/22/15	04/22/15 17:48	150422L022

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	94	62-146	
Toluene-d8	105	80-120	
1,4-Bromofluorobenzene	93	60-132	
Toluene-d8-TPPH	106	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1858	N/A	Solid	GC/MS OO	04/22/15	04/23/15 07:20	150422L064

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	98	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	95	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1855	N/A	Solid	GC/MS R	04/23/15	04/23/15 16:18	150423L010

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	90	62-146	
Toluene-d8	102	80-120	
1,4-Bromofluorobenzene	91	60-132	
Toluene-d8-TPPH	103	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1859	N/A	Solid	GC/MS R	04/23/15	04/23/15 16:46	150423L032

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
Dibromofluoromethane	97	63-141		
1,2-Dichloroethane-d4	87	62-146		
Toluene-d8	99	80-120		
1,4-Bromofluorobenzene	92	60-132		
Toluene-d8-TPPH	100	87-111		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1863	N/A	Solid	GC/MS OO	04/23/15	04/23/15 20:29	150423L044

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	101	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	97	60-132	
Toluene-d8-TPPH	98	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1861	N/A	Solid	GC/MS OO	04/24/15	04/24/15 15:50	150424L026

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	5.0	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	500	1.00	
TPPH	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	99	80-120	
1,4-Bromofluorobenzene	96	60-132	
Toluene-d8-TPPH	95	87-111	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





Calscience

## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B  
Units: ug/kg

Project: BP #11117

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-1865	N/A	Solid	GC/MS OO	04/24/15	04/24/15 16:19	150424L027

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	500	50.0	
1,2-Dibromoethane	ND	500	50.0	
1,2-Dichloroethane	ND	500	50.0	
Ethylbenzene	ND	500	50.0	
Toluene	ND	500	50.0	
p/m-Xylene	ND	500	50.0	
o-Xylene	ND	500	50.0	
Methyl-t-Butyl Ether (MTBE)	ND	500	50.0	
Tert-Butyl Alcohol (TBA)	ND	5000	50.0	
Diisopropyl Ether (DIPE)	ND	1000	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1000	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1000	50.0	
Ethanol	ND	50000	50.0	
TPPH	ND	50000	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	101	80-120	
1,4-Bromofluorobenzene	99	60-132	
Toluene-d8-TPPH	98	87-111	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Antea Group	Date Received:	04/17/15
11050 White Rock Rd. Suite# 110	Work Order:	15-04-1356
Rancho Cordova, CA 95670-6001	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
Project: BP #11117		Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-27d25	Sample	Solid	GC 46	04/20/15	04/22/15 06:52	150420S09
SB-27d25	Matrix Spike	Solid	GC 46	04/20/15	04/22/15 03:56	150420S09
SB-27d25	Matrix Spike Duplicate	Solid	GC 46	04/20/15	04/22/15 04:14	150420S09

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	5.909	400.0	408.8	101	418.0	103	64-130	2	0-15	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-27d25	Sample	Solid	ICP 7300	04/23/15	04/23/15 21:57	150423S01
SB-27d25	Matrix Spike	Solid	ICP 7300	04/23/15	04/23/15 21:41	150423S01
SB-27d25	Matrix Spike Duplicate	Solid	ICP 7300	04/23/15	04/23/15 21:42	150423S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	7.294	29	7.101	28	50-115	3	0-20	3
Arsenic	5.709	25.00	30.71	100	27.86	89	75-125	10	0-20	
Barium	113.8	25.00	143.0	4X	129.7	4X	75-125	4X	0-20	Q
Beryllium	0.3413	25.00	26.01	103	24.80	98	75-125	5	0-20	
Cadmium	ND	25.00	25.21	101	24.03	96	75-125	5	0-20	
Chromium	29.52	25.00	60.57	124	56.44	108	75-125	7	0-20	
Cobalt	9.756	25.00	38.05	113	36.26	106	75-125	5	0-20	
Copper	12.99	25.00	40.79	111	39.07	104	75-125	4	0-20	
Lead	7.384	25.00	34.98	110	31.58	97	75-125	10	0-20	
Molybdenum	ND	25.00	21.89	88	21.06	84	75-125	4	0-20	
Nickel	31.73	25.00	60.92	117	59.23	110	75-125	3	0-20	
Selenium	ND	25.00	17.49	70	16.09	64	75-125	8	0-20	3
Silver	ND	12.50	12.24	98	12.37	99	75-125	1	0-20	
Thallium	ND	25.00	24.62	98	22.78	91	75-125	8	0-20	
Vanadium	25.81	25.00	55.46	119	51.76	104	75-125	7	0-20	
Zinc	35.57	25.00	65.96	122	61.24	103	75-125	7	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Antea Group  
 11050 White Rock Rd. Suite# 110  
 Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
 Work Order: 15-04-1356  
 Preparation: EPA 7471A Total  
 Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-27d25	Sample	Solid	Mercury 05	04/23/15	04/23/15 15:17	150423S01
SB-27d25	Matrix Spike	Solid	Mercury 05	04/23/15	04/23/15 15:20	150423S01
SB-27d25	Matrix Spike Duplicate	Solid	Mercury 05	04/23/15	04/23/15 15:22	150423S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8914	107	0.9285	111	71-137	4	0-14	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1415-11	Sample	Aqueous	GC/MS W	04/23/15	04/24/15 05:01	150423S021
15-04-1415-11	Matrix Spike	Aqueous	GC/MS W	04/23/15	04/24/15 05:31	150423S021
15-04-1415-11	Matrix Spike Duplicate	Aqueous	GC/MS W	04/23/15	04/24/15 06:00	150423S021

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	44.14	88	45.69	91	74-122	3	0-21	
Ethylbenzene	ND	50.00	44.42	89	45.11	90	77-125	2	0-24	
Toluene	ND	50.00	45.55	91	47.27	95	72-126	4	0-23	
p/m-Xylene	ND	100.0	86.61	87	87.98	88	63-129	2	0-25	
o-Xylene	ND	50.00	45.55	91	46.17	92	62-128	1	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	48.18	96	48.43	97	68-134	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	267.1	107	269.9	108	65-143	1	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	46.18	92	47.35	95	61-139	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	47.03	94	47.49	95	64-136	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.06	100	49.87	100	67-133	0	0-20	
Ethanol	ND	500.0	499.5	100	478.5	96	34-178	4	0-58	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1216-22	Sample	Solid	GC/MS R	04/16/15	04/22/15 18:16	150422S012
15-04-1216-22	Matrix Spike	Solid	GC/MS R	04/16/15	04/22/15 18:44	150422S012
15-04-1216-22	Matrix Spike Duplicate	Solid	GC/MS R	04/16/15	04/22/15 19:12	150422S012

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	5000	4878	98	4839	97	61-127	1	0-20	
1,2-Dibromoethane	ND	5000	4334	87	4607	92	64-124	6	0-20	
1,2-Dichloroethane	ND	5000	4309	86	4149	83	80-120	4	0-20	
Ethylbenzene	ND	5000	4806	96	5087	102	57-129	6	0-22	
Toluene	ND	5000	5225	105	5579	112	63-123	7	0-20	
p/m-Xylene	ND	10000	9844	98	10130	101	70-130	3	0-30	
o-Xylene	ND	5000	5100	102	5309	106	70-130	4	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	5000	4341	87	4910	98	57-123	12	0-21	
Tert-Butyl Alcohol (TBA)	ND	25000	24830	99	25260	101	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	5000	4900	98	5762	115	57-129	16	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	5000	4683	94	5398	108	55-127	14	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	5000	4602	92	4977	100	58-124	8	0-20	
Ethanol	ND	50000	10760	22	35160	70	17-167	106	0-47	4

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1771-5	Sample	Solid	GC/MS R	04/23/15	04/23/15 17:14	150423S011
15-04-1771-5	Matrix Spike	Solid	GC/MS R	04/23/15	04/23/15 17:42	150423S011
15-04-1771-5	Matrix Spike Duplicate	Solid	GC/MS R	04/23/15	04/23/15 18:10	150423S011

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	39.13	78	38.25	77	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	40.28	81	39.55	79	64-124	2	0-20	
1,2-Dichloroethane	ND	50.00	39.32	79	37.93	76	80-120	4	0-20	3
Ethylbenzene	ND	50.00	41.20	82	40.80	82	57-129	1	0-22	
Toluene	ND	50.00	43.45	87	42.99	86	63-123	1	0-20	
p/m-Xylene	ND	100.0	82.62	83	82.60	83	70-130	0	0-30	
o-Xylene	ND	50.00	42.74	85	42.98	86	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	42.53	85	42.89	86	57-123	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	210.8	84	216.0	86	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	43.96	88	45.63	91	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	39.94	80	38.94	78	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.97	88	42.34	85	58-124	4	0-20	
Ethanol	ND	500.0	407.7	82	357.7	72	17-167	13	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SB-28d5.5	Sample	Solid	GC/MS OO	04/20/15	04/23/15 07:48	150422S037
SB-28d5.5	Matrix Spike	Solid	GC/MS OO	04/20/15	04/23/15 08:17	150422S037
SB-28d5.5	Matrix Spike Duplicate	Solid	GC/MS OO	04/20/15	04/23/15 08:45	150422S037

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.35	91	44.47	89	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	41.36	83	41.16	82	64-124	0	0-20	
1,2-Dichloroethane	ND	50.00	41.38	83	41.70	83	80-120	1	0-20	
Ethylbenzene	ND	50.00	44.02	88	44.19	88	57-129	0	0-22	
Toluene	ND	50.00	45.63	91	44.36	89	63-123	3	0-20	
p/m-Xylene	ND	100.0	92.37	92	89.51	90	70-130	3	0-30	
o-Xylene	ND	50.00	46.07	92	46.04	92	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	40.00	80	41.08	82	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	203.9	82	201.3	81	30-168	1	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	38.29	77	38.57	77	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	38.25	76	38.90	78	55-127	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	43.60	87	42.99	86	58-124	1	0-20	
Ethanol	ND	500.0	308.7	62	162.9	33	17-167	62	0-47	4

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RPD: Relative Percent Difference. CL: Control Limits





Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-04-1546-6	Sample	Solid	GC/MS OO	04/21/15	04/23/15 21:06	150423S030
15-04-1546-6	Matrix Spike	Solid	GC/MS OO	04/21/15	04/23/15 21:34	150423S030
15-04-1546-6	Matrix Spike Duplicate	Solid	GC/MS OO	04/21/15	04/23/15 22:03	150423S030

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	45.09	90	46.20	92	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	47.94	96	47.51	95	64-124	1	0-20	
1,2-Dichloroethane	ND	50.00	47.34	95	48.14	96	80-120	2	0-20	
Ethylbenzene	ND	50.00	48.04	96	48.33	97	57-129	1	0-22	
Toluene	ND	50.00	47.41	95	48.39	97	63-123	2	0-20	
p/m-Xylene	ND	100.0	99.23	99	100.7	101	70-130	1	0-30	
o-Xylene	ND	50.00	50.64	101	51.17	102	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	44.26	89	45.50	91	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	234.2	94	227.1	91	30-168	3	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	41.75	84	42.13	84	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	42.28	85	43.19	86	55-127	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.81	100	50.59	101	58-124	2	0-20	
Ethanol	ND	500.0	445.2	89	453.9	91	17-167	2	0-47	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
<b>SB-27d5.5</b>	<b>Sample</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/24/15</b>	<b>04/24/15 17:04</b>	<b>150424S010</b>
<b>SB-27d5.5</b>	<b>Matrix Spike</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/24/15</b>	<b>04/24/15 17:32</b>	<b>150424S010</b>
<b>SB-27d5.5</b>	<b>Matrix Spike Duplicate</b>	<b>Solid</b>	<b>GC/MS OO</b>	<b>04/24/15</b>	<b>04/24/15 18:01</b>	<b>150424S010</b>

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	6.326	50.00	51.29	90	52.07	91	61-127	2	0-20	
1,2-Dibromoethane	ND	50.00	42.52	85	45.69	91	64-124	7	0-20	
1,2-Dichloroethane	ND	50.00	44.82	90	45.58	91	80-120	2	0-20	
Ethylbenzene	ND	50.00	47.54	95	50.26	101	57-129	6	0-22	
Toluene	8.179	50.00	55.78	95	56.62	97	63-123	1	0-20	
p/m-Xylene	5.956	100.0	103.4	97	107.5	101	70-130	4	0-30	
o-Xylene	ND	50.00	51.39	103	54.08	108	70-130	5	0-30	
Methyl-t-Butyl Ether (MTBE)	5.601	50.00	45.66	80	49.05	87	57-123	7	0-21	
Tert-Butyl Alcohol (TBA)	396.8	250.0	662.6	106	682.9	114	30-168	3	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	38.43	77	41.99	84	57-129	9	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	38.28	77	42.61	85	55-127	11	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	44.33	89	48.96	98	58-124	10	0-20	
Ethanol	ND	500.0	462.7	93	422.6	85	17-167	9	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1015	LCS	Aqueous	GC 47	04/20/15	04/21/15 19:34	150420B18A			
099-15-304-1015	LCSD	Aqueous	GC 47	04/20/15	04/21/15 19:52	150420B18A			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	2266	113	2294	115	75-117	1	0-13	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3550B  
Method: EPA 8015B (M)

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-422-1745</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 46</b>	<b>04/20/15</b>	<b>04/22/15 03:38</b>	<b>150420B09</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	369.5	92	75-123	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-20850</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>04/23/15</b>	<b>04/23/15 21:39</b>	<b>150423L01</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	21.95	88	80-120	73-127	
Arsenic		25.00	21.51	86	80-120	73-127	
Barium		25.00	23.44	94	80-120	73-127	
Beryllium		25.00	22.50	90	80-120	73-127	
Cadmium		25.00	23.10	92	80-120	73-127	
Chromium		25.00	23.71	95	80-120	73-127	
Cobalt		25.00	24.32	97	80-120	73-127	
Copper		25.00	23.78	95	80-120	73-127	
Lead		25.00	23.82	95	80-120	73-127	
Molybdenum		25.00	22.61	90	80-120	73-127	
Nickel		25.00	24.52	98	80-120	73-127	
Selenium		25.00	22.04	88	80-120	73-127	
Silver		12.50	11.54	92	80-120	73-127	
Thallium		25.00	22.63	91	80-120	73-127	
Vanadium		25.00	22.88	92	80-120	73-127	
Zinc		25.00	22.83	91	80-120	73-127	

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

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-1186</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 05</b>	<b>04/23/15</b>	<b>04/23/15 15:15</b>	<b>150423S01</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.8350	0.8753	105	85-121	

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-767-6882	LCS	Aqueous	GC/MS W	04/23/15	04/24/15 03:04	150423L036				
099-12-767-6882	LCSD	Aqueous	GC/MS W	04/23/15	04/24/15 03:33	150423L036				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.25	93	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.63	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	44.15	88	N/A	N/A	70-130	60-140	N/A	0-20	
Ethylbenzene	50.00	46.53	93	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	46.45	93	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	90.54	91	N/A	N/A	75-123	67-131	N/A	0-25	
o-Xylene	50.00	47.31	95	N/A	N/A	74-122	66-130	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.79	96	N/A	N/A	69-129	59-139	N/A	0-22	
Tert-Butyl Alcohol (TBA)	250.0	261.3	105	N/A	N/A	69-129	59-139	N/A	0-25	
Diisopropyl Ether (DIPE)	50.00	47.48	95	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	47.38	95	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.86	98	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	474.8	95	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	1034	103	1012	101	65-135	53-147	2	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1853	LCS	Solid	GC/MS R	04/22/15	04/22/15 15:56	150422L022				
099-12-798-1853	LCSD	Solid	GC/MS R	04/22/15	04/22/15 16:24	150422L022				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.59	87	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	45.05	90	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	43.94	88	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	50.34	101	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	51.25	102	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	103.1	103	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	52.41	105	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.19	86	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	254.8	102	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	48.04	96	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.39	93	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.83	92	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	488.7	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	978.2	98	876.7	88	65-135	53-147	11	0-30	

Total number of LCS compounds: 14

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 Limits





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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1855	LCS	Solid	GC/MS R	04/23/15	04/23/15 15:22	150423L010				
099-12-798-1855	LCSD	Solid	GC/MS R	04/23/15	04/23/15 15:50	150423L010				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.64	91	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	45.24	90	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	43.64	87	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	51.18	102	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.41	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	103.8	104	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	53.17	106	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.52	89	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	241.0	96	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	50.35	101	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	43.65	87	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	47.76	96	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	424.4	85	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	836.8	84	884.5	88	65-135	53-147	6	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1859	LCS	Solid	GC/MS R	04/23/15	04/23/15 15:22	150423L032				
099-12-798-1859	LCSD	Solid	GC/MS R	04/23/15	04/23/15 15:50	150423L032				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	45.64	91	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	45.24	90	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	43.64	87	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	51.18	102	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.41	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	103.8	104	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	53.17	106	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.52	89	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	241.0	96	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	50.35	101	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	43.65	87	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	47.76	96	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	424.4	85	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	836.8	84	884.5	88	65-135	53-147	6	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1858	LCS	Solid	GC/MS OO	04/22/15	04/23/15 05:26	150422L064				
099-12-798-1858	LCSD	Solid	GC/MS OO	04/22/15	04/23/15 05:54	150422L064				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.36	95	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	49.67	99	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	46.79	94	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	49.56	99	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	48.62	97	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	102.2	102	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	51.77	104	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.84	94	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	248.9	100	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.19	90	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.69	91	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.48	103	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	488.9	98	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	935.5	94	929.1	93	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1863	LCS	Solid	GC/MS OO	04/23/15	04/23/15 18:05	150423L044				
099-12-798-1863	LCSD	Solid	GC/MS OO	04/23/15	04/23/15 18:34	150423L044				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.65	103	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	51.17	102	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	50.71	101	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	54.26	109	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	54.59	109	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	112.0	112	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	55.63	111	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	51.22	102	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	259.2	104	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	43.80	88	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.23	90	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	53.40	107	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	477.0	95	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	958.5	96	952.6	95	65-135	53-147	1	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1861	LCS	Solid	GC/MS OO	04/24/15	04/24/15 14:25	150424L026				
099-12-798-1861	LCSD	Solid	GC/MS OO	04/24/15	04/24/15 14:53	150424L026				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.34	103	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.59	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	49.70	99	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	53.21	106	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.52	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	109.2	109	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.26	109	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.57	95	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	252.3	101	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.88	92	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.12	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.19	104	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	503.1	101	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	956.8	96	957.5	96	65-135	53-147	0	0-30	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS/LCSD

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: EPA 5030C  
Method: GC/MS / EPA 8260B

Project: BP #11117

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-12-798-1865	LCS	Solid	GC/MS OO	04/24/15	04/24/15 14:25	150424L027				
099-12-798-1865	LCSD	Solid	GC/MS OO	04/24/15	04/24/15 14:53	150424L027				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.34	103	N/A	N/A	78-120	71-127	N/A	0-20	
1,2-Dibromoethane	50.00	50.59	101	N/A	N/A	80-120	73-127	N/A	0-20	
1,2-Dichloroethane	50.00	49.70	99	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	53.21	106	N/A	N/A	76-120	69-127	N/A	0-20	
Toluene	50.00	52.52	105	N/A	N/A	77-120	70-127	N/A	0-20	
p/m-Xylene	100.0	109.2	109	N/A	N/A	75-125	67-133	N/A	0-25	
o-Xylene	50.00	54.26	109	N/A	N/A	75-125	67-133	N/A	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	47.57	95	N/A	N/A	77-120	70-127	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	252.3	101	N/A	N/A	68-122	59-131	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	45.88	92	N/A	N/A	78-120	71-127	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.12	92	N/A	N/A	78-120	71-127	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.19	104	N/A	N/A	75-120	68-128	N/A	0-20	
Ethanol	500.0	503.1	101	N/A	N/A	56-140	42-154	N/A	0-20	
TPPH	1000	956.8	96	957.5	96	65-135	53-147	0	0-30	

Total number of LCS compounds: 14

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 Limits

## Sample Analysis Summary Report

Work Order: 15-04-1356

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3510C	949	GC 47	1
EPA 8015B (M)	EPA 3550B	949	GC 46	1
GC/MS / EPA 8260B	EPA 5030C	849	GC/MS OO	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	927	GC/MS W	2

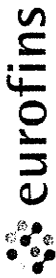
## Glossary of Terms and Qualifiers

Work Order: 15-04-1356

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
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. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.





Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110

CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
EOD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: 1 OF 3  
PAGE: 1 OF 3

IWO NO. / LAB USE ONLY  
**15-04-1356**

CLIENT PROJECT NAME / NO.:

BP #11117

PROJECT CONTACT:

Dennis Dettloff

GLOBAL ID:

T0600100201

P.O. NO.:

42611117

LAB CONTACT OR QUOTE NO.:

SAMPLER(S): (PRINT)

Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIFE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B Naphthalene	CAM17 Metals
		DATE	TIME										
1	SB-26d15.5	4/16/15	7:50	Soil	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	SB-26d18		8:20		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	SB-26d25		8:30		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	SB-26d30		8:40		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	SB-26d35		8:50		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	SB-26 GW		8:10	Water	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	SB-27d15.5		9:30	Soil	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	SB-27d14		9:40		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	SB-27d19		9:50		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	SB-27d25		10:00		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Received by: (Signature/Affiliation)

Time:

Date:

Received by: (Signature/Affiliation)

Time:

Date:

Received by: (Signature/Affiliation)

Time: 0940

Date: 4/17/15

ES

(Fedex)



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us26\_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110

CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: dennis.dettloff@anteagroup.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

EDD:

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:

CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD  
DATE: \_\_\_\_\_  
PAGE: 2 OF 3

WO NO. / LAB USE ONLY  
04-1356

CLIENT PROJECT NAME / NO.: \_\_\_\_\_

BP #11117

PROJECT CONTACT: Dennis Dettloff

GLOBAL ID: T0600100201

LOG CODE: \_\_\_\_\_

SAMPLER(S): (PRINT) Jonathan Fillingame

P.O. NO.: 42611117

LAB CONTACT OR QUOTE NO.: \_\_\_\_\_

**REQUESTED ANALYSES**  
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(g) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIFE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B naphthalene	CAM17 Metals
11	SB-27d30	4/16/15	10:10	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
12	SB-27d35		10:20	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
13	SB-27 GW		10:40	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
14	SB-28d5.5		11:00	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
15	SB-28d20		11:20		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
16	SB-28d27		11:40		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
17	SB-28d32		11:50		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
18	SB-28 GW		12:10	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
19	SB-29d5.5		13:10	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
20	SB-29d12		13:30	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature/Affiliation) \_\_\_\_\_ Date: 4/17/15 Time: 09:40





1356

**FedEx** NEW Package  
Express US Airbill

FedEx Tracking Number 8064 4498 4155

ORIGIN ID: JBSA (916) 638-2764  
ANTEA GROUP  
11050 WHITE ROCK RD STE 110  
RANCHO CORDOVA, CA 956706388  
UNITED STATES US

SHIP DATE: 16APR15  
ACTWGT: 63.6 LB MAN  
CAD: /POS1601  
DIMS: 24x15x14 IN  
BILL SENDER

From [Redacted]  
Date 4/16/15

Sender's Name Antea Group Phone 800 477-7411

Company

Address 11050 White Rock Road Suite 110

City Rancho Cordova State CA ZIP 95670

Your Internal Billing Reference I4201117

To Recipient's Name [Redacted] Phone 714 800-1114

Company Eurofins Cal Science

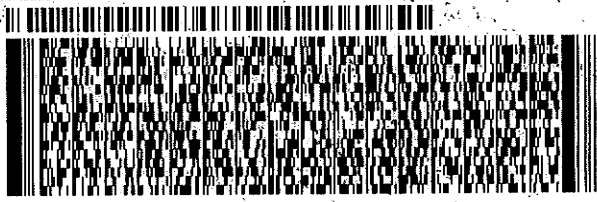
Address 1714 Lincoln Way Dept. Floor/Suite/Room

Address Use this line for the HOLD location address or for continuation of your shipping address.

City Garden Grove State CA 841

TO RICHARD  
EUROFINS CALSCIENCE INC  
7440 LINCOLN WAY

GARDEN GROVE CA 92841  
(714) 896-6494 REF: INVT DEPT: P01



TRK# 8064 4498 4155  
0200

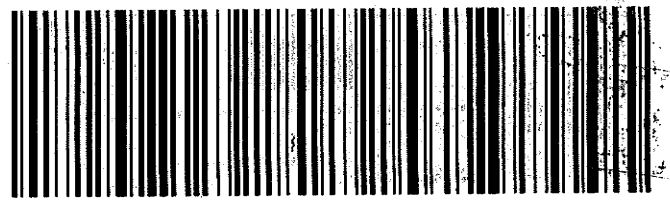
FRI - 17 APR 10:30A  
PRIORITY OVERNIGHT

92 APVA

92841  
CA-US SNA



8064 4498 4155



SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Antea Group

DATE: 04/17/2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2-7 °C (w/ 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  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter

Checked by: 836

**CUSTODY SEAL:**

Cooler	<input type="checkbox"/> Present and Intact	<input type="checkbox"/> Present but Not Intact	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Checked by: <u>836</u>
Sample(s)	<input type="checkbox"/> Present and Intact	<input type="checkbox"/> Present but Not Intact	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Checked by: <u>977</u>

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input checked="" type="checkbox"/> No relinquished date <input checked="" type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOAh  VOAna<sub>2</sub>  100PJ  100PJna<sub>2</sub>  125AGB  125AGBh  125AGBp  125PB  
 125PBz<sub>nna</sub>  250AGB  250CGB  250CGBs  250PB  250PBn  500AGB  500AGJ  500AGJs  
 500PB  1AGB  1AGBna<sub>2</sub>  1AGBs  1PB  1PBna  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ **Other Matrix** (\_\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag  
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO<sub>3</sub>, na = NaOH, na<sub>2</sub> = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, p = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 977  
 s = H<sub>2</sub>SO<sub>4</sub>, u = ultra-pure, z<sub>nna</sub> = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 802

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Is the Data Valid?  
(circle)  
Yes / No

Preservation Temperature  
(if Known): 2.4 °C

### Antea Group Lab Validation Sheet

Project/Client: COP/ELT  
 Project #: 142611117  
 Date of Validation: 6/26/15 Date of Analysis: 4/24/15 Sample Date: 4/16/15  
 Completed By: Jon F. Signature: Jonathan F. Williams  
 Analytical Lab Used and Report # (if any): Calscience 15-04-1356

1. Was the analysis the one requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they below non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m<sup>3</sup>, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?

Circle or Highlight Yes/No below

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No N/a

Yes / No

Yes / No

Yes / No

If any answer is no, explain why and what corrective action was taken:

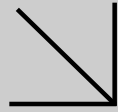
9. Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. (Antimony, Selenium, 1,2-DCA).  
 11. The MS/MSD RPD was out of control due to suspected matrix interference. (Ethanol)  
 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. (Barium)



Environmental  
Calscience

Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.



**WORK ORDER NUMBER: 15-04-1356**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Antea Group

**Client Project Name:** BP #11117

**Attention:** Dennis Dettloff  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

*Richard Villafania*

Approved for release on 05/18/2015 by:  
Richard Villafania  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.





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Client Project Name: BP #11117  
Work Order Number: 15-04-1356

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3	Quality Control Sample Data. . . . .	5
	3.1 MS/MSD. . . . .	5
	3.2 LCS/LCSD. . . . .	6
4	Sample Analysis Summary. . . . .	7
5	Glossary of Terms and Qualifiers. . . . .	8
6	Chain-of-Custody/Sample Receipt Form. . . . .	9

**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 04/17/15. They were assigned to Work Order 15-04-1356.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



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## Analytical Report

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: T22.11.5. All  
Method: EPA 6010B  
Units: mg/L

Project: BP #11117

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SB-28d20	15-04-1356-15-A	04/16/15 11:20	Solid	ICP 7300	05/12/15	05/14/15 19:45	150514LA3

Parameter	Result	RL	DF	Qualifiers
Barium	6.50	0.100	1.00	
Nickel	0.577	0.100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-05-006-7847	N/A	Aqueous	ICP 7300	05/12/15	05/14/15 18:48	150514LA3

Parameter	Result	RL	DF	Qualifiers
Barium	ND	0.100	1.00	
Nickel	ND	0.100	1.00	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Quality Control - Spike/Spike Duplicate

Antea Group  
 11050 White Rock Rd. Suite# 110  
 Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
 Work Order: 15-04-1356  
 Preparation: T22.11.5. All  
 Method: EPA 6010B

Project: BP #11117

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-05-0919-1	Sample	Aqueous	ICP 7300	05/14/15	05/14/15 19:29	150514SA3
15-05-0919-1	Matrix Spike	Aqueous	ICP 7300	05/14/15	05/14/15 19:31	150514SA3
15-05-0919-1	Matrix Spike Duplicate	Aqueous	ICP 7300	05/14/15	05/14/15 19:33	150514SA3

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Barium	ND	5.000	5.123	102	5.255	105	75-125	3	0-20	
Nickel	ND	5.000	5.182	104	5.366	107	75-125	3	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Antea Group  
11050 White Rock Rd. Suite# 110  
Rancho Cordova, CA 95670-6001

Date Received: 04/17/15  
Work Order: 15-04-1356  
Preparation: T22.11.5. All  
Method: EPA 6010B

Project: BP #11117

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>097-05-006-7847</b>	<b>LCS</b>	<b>Aqueous</b>	<b>ICP 7300</b>	<b>05/12/15</b>	<b>05/14/15 18:50</b>	<b>150514LA3</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Barium		5.000	5.132	103	80-120	
Nickel		5.000	4.801	96	80-120	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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# Sample Analysis Summary Report

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Work Order: 15-04-1356

Page 1 of 1

---

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	T22.11.5. All	935	ICP 7300	1

  
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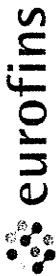
Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

## Glossary of Terms and Qualifiers

Work Order: 15-04-1356

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
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.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
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. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For counter service / sample drop off information, contact us26\_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: \_\_\_\_\_ OF \_\_\_\_\_  
PAGE: 1 OF 3

IWO NO. / LAB USE ONLY

**15-04-1356**

LABORATORY CLIENT: Antea Group

ADDRESS: 11050 White Rock Road, Suite 110

CITY: Rancho Cordova STATE: CA ZIP: 95670

TEL: 916 503-1261 E-MAIL: [dennis.dettloff@anteagroup.com](mailto:dennis.dettloff@anteagroup.com)

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 EDD: \_\_\_\_\_

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:  
 CC results to jonathan.fillingame@anteagroup.com

CLIENT PROJECT NAME / NO.: \_\_\_\_\_

BP #1117

PROJECT CONTACT: Dennis Dettloff

GLOBAL ID: T0600100201

LOG CODE: \_\_\_\_\_

P.O. NO.: 14261117

LAB CONTACT OR QUOTE NO.: \_\_\_\_\_

SAMPLER(S): (PRINT) Jonathan Fillingame

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(d) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIFE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B Naphthalene	CAM17 Metals
		DATE	TIME										
1	SB-26d15.5	4/16/15	7:50	Soil	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	SB-26d18		8:20		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	SB-26d25		8:30		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	SB-26d30		8:40		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	SB-26d35		8:50		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	SB-26 GW		8:10	Water	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	SB-27d15.5		9:30	Soil	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	SB-27d14		9:40		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	SB-27d19		9:50		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	SB-27d25		10:00		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: (Signature) *Jonathan Fillingame* Date: 4/17/15 Time: 0940

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

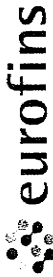
Relinquished by: (Signature) \_\_\_\_\_ Date: 4/17/15 Time: 0940

(Fedex)

Date: 4/17/15 Time: 0940







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CC results to jonathan.fillingame@anteagroup.com

CHAIN-OF-CUSTODY RECORD

DATE: \_\_\_\_\_  
PAGE: 2 OF 3

WO NO. / LAB USE ONLY

04-1356

CLIENT PROJECT NAME / NO.

BP #11117

PROJECT CONTACT:

Dennis Dettloff

GLOBAL ID:

T0600100201

LOG CODE:

SAMPLER(S): (PRINT)

Jonathan Fillingame

P.O. NO.:

42611117

LAB CONTACT OR QUOTE NO.:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO by 8260B	TPH(g) <input type="checkbox"/> DRO by 8015B	BTEX, MTBE, ETBE, DIFE, TAME, TBA, 1,2-DCA, EDB, ethanol by 8260B	8260B naphthalene	CAM17 Metals
	SB-27d30	4/16/15	10:10	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-27d35		10:20	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-27 GW		10:40	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-28d5.5		11:00	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-28d20		11:20		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-28d27		11:40		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-28d32		11:50		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-28 GW		12:10	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-29d5.5		13:10	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	SB-29d12		13:30	Soil	1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Relinquished by: (Signature)

*Jonathan Fillingame*

Relinquished by: (Signature)

*Jonathan Fillingame*

Relinquished by: (Signature)

( Felix )

Received by: (Signature/Affiliation)

*Felix*

Date: 4/17/15

Time: 09:40

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_



## Richard Villafania

---

**From:** Dennis Dettloff [Dennis.Dettloff@anteagroup.com]  
**Sent:** Tuesday, May 12, 2015 2:53 PM  
**To:** Richard Villafania  
**Subject:** RE: BP #11117 / ECI 15-04-1356 Report

**Categories:** Need Response

Richard:

Would it be possible for you to run an STLC for barium and nickel on sample 15-04-1356-15-A from the above referenced report? Let me know.

**Dennis S. Dettloff, P.G. | Senior Project Manager | Antea Group**

Direct + 916 503 1261 | USA Toll Free 800 477 7411

[Dennis.Dettloff@anteagroup.com](mailto:Dennis.Dettloff@anteagroup.com) | [www.anteagroup.com](http://www.anteagroup.com)

Member of Inogen® | [www.inogenet.com](http://www.inogenet.com)



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**From:** Richard Villafania [<mailto:RichardVillafania@eurofinsUS.com>]

**Sent:** Monday, April 27, 2015 10:50 AM

**To:** Dennis Dettloff; Jonathan Fillingame

**Subject:** BP #11117 / ECI 15-04-1356 Report

Regards.

Richard Villafania  
Project Manager

**Eurofins Calscience, Inc.**

7440 Lincoln Way  
GARDEN GROVE, CA 92841  
USA

Phone: +1 714 895 5494

Website: [www.calscience.com](http://www.calscience.com)

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1356

ORIGIN ID: JBSA (916) 638-2764  
ANTEA GROUP  
11050 WHITE ROCK RD STE 110  
RANCHO CORDOVA, CA 956706388  
UNITED STATES US

SHIP DATE: 16APR15  
ACTWGT: 63.6 LB MAN  
CAD: /POS1601  
DIMS: 24x15x14 IN  
BILL SENDER

**FedEx** NEW Package  
Express US Airbill

FedEx Tracking Number 8064 4498 4155

TO RICHARD  
EUROFINS CALSCIENCE INC  
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 896-6494

REF:

INVT DEPT:

From [Redacted]  
Date 4/16/15

Sender's Name Antea Group Phone 800 477-7411

Company

Address 11050 White Rock Road Suite 110

City Rancho Cordova State CA ZIP 95670

Your Internal Billing Reference I4201117

To Recipient's Name [Redacted] Phone 714 896-6494

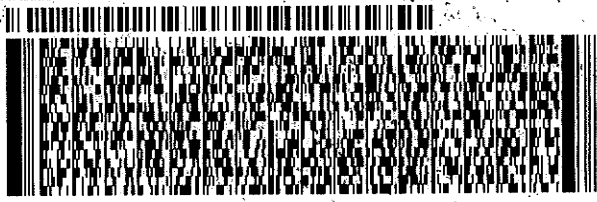
Company Eurofins Cal Science

Address 7440 Lincoln Way  
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Use this line for the HOLD location address or for continuation of your shipping address.

City Garden Grove State CA 841

HOLD Weekday  
FedEx location address  
REQUIRED. NOT available for  
FedEx First Overnight.  
 HOLD Saturday  
FedEx location address  
REQUIRED. Available ONLY for  
FedEx Priority Overnight and  
FedEx 2Day to select locations.



TRK# 8064 4498 4155  
0200

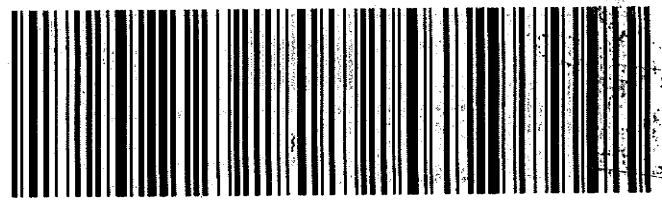
FRI - 17 APR 10:30A  
PRIORITY OVERNIGHT

92 APVA

92841  
CA-US SNA



8064 4498 4155



**SAMPLE RECEIPT CHECKLIST**

COOLER 1 OF 1

CLIENT: Antea Group

DATE: 04/17/2015

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2-7 °C (w/ 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  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter

Checked by: 836

**CUSTODY SEAL:**

Cooler	<input type="checkbox"/> Present and Intact	<input type="checkbox"/> Present but Not Intact	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Checked by: <u>836</u>
Sample(s)	<input type="checkbox"/> Present and Intact	<input type="checkbox"/> Present but Not Intact	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> N/A	Checked by: <u>977</u>

**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input checked="" type="checkbox"/> No relinquished date <input checked="" type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** 3 (Trip Blank Lot Number: \_\_\_\_\_)

**Aqueous:**  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB  
 125PB<sub>z</sub>  250AGB  250CGB  250CGB<sub>s</sub>  250PB  250PB<sub>n</sub>  500AGB  500AGJ  500AGJ<sub>s</sub>  
 500PB  1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub>  1PB  1PB<sub>na</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

**Solid:**  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (P)  EnCores® (\_\_\_\_\_)  TerraCores® (\_\_\_\_\_)  \_\_\_\_\_

**Air:**  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag  
 Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 977  
**s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **z** = Zn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: 802

Return to Contents



Is the Data Valid?  
(circle)  
 Yes / No

Preservation Temperature  
(if Known): 2.4 °C

### Antea Group Lab Validation Sheet

Project/Client: COP/ELT  
Project #: 142611117  
Date of Validation: 6/26/15 Date of Analysis: 5/14/15 Sample Date: 4/16/15  
Completed By: Jon F. Signature: *Jonathan Williams*  
Analytical Lab Used and Report # (if any): Calscience 15-04-1356

- 1. Was the analysis the one requested?
- 2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
- 3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
- 4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
- 5. Were Laboratory blanks performed, if so, were they below non-detect?
- 6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m<sup>3</sup>, etc.)
- 7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
- 8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
- 9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?
- 10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
- 11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?

Circle or Highlight Yes/No below

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No N/a

Yes / No

Yes / No

Yes / No

If any answer is no, explain why and what corrective action was taken: