

Site Remedial Action and Investigation Report

*Union Pacific Railroad
2 Fourth Street and 34 Sixth Street
Santa Rosa, California*

*North Coast Regional Water Quality Control Board
Case No. 1TSR196*

*Antea Group Project No. UPR8248
October 16, 2012*

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1.0 INTRODUCTION

Antea™Group has prepared this *Site Remedial Action and Investigation Report* on behalf of Union Pacific Railroad (UPRR) in response to the North Coast Regional Water Quality Control Board (RWQCB) directive letter dated January 19, 2012 and work plan approval letter dated March 19, 2012 (**Appendix A**). This report summarizes the following activities to address RWQCB concerns:

- additional soil excavation in the vicinity of EBA Engineering (EBA) boring SB-1,
- qualitative groundwater assessment in the vicinity of the recently removed underground storage tanks (USTs) to investigate the extent of separate phase hydrocarbons (SPH) encountered during UST removal;
- to determine the optimal placement of up to four groundwater monitoring wells, and
- the advancement of twelve soil borings (B1 through B12) along a section of the southwest property boundary to aid in determining the relationship between on-site and off-site contamination.

1.1 Site Description

Currently, the site is being used as a construction equipment supply storage area for Sonoma Marin Area Rail Transit (SMART) construction activities taking place off site. The site is composed of two contiguous parcels of land, identified as Sonoma County Assessor Parcel Numbers (APN) 010-171-004 (2 Fourth Street) and 010-166-03 (34 Sixth Street). The site is bounded to the south by Third Street, to the west by former commercial properties identified as the 3 West Third Street and 60 West Sixth Street Warehouses, to the north by West Sixth Street, and on the east by the main line railroad track right-of-way and commercial properties (**Figure 1**).

1.2 Site History

The site was historically used as a railroad freight depot and maintenance/fueling yard from the late 1800's through the 1960's. This site has been vacant and generally unused since the late 1960's. Consultants have conducted environmental investigations and remediation efforts at the site since 1987. Former operations at the site include the use of aboveground storage tanks (ASTs), underground storage tanks (USTs), a main railroad track system that occupied the eastern portion of the property, several associated railroad spurs and siding, a turntable, warehouses, and freight houses. A Sanborn Fire Insurance map dated 1885 indicates the Santa Rosa Woolen Mills was located in the northwestern portion of the site until approximately 1906 (EBA, 2009a). **Appendix B** includes a summary of environmental investigations and remedial activities conducted at the site. **Figure 2** shows the locations of historic borings and wells at the site.

1.3 Geologic and Hydrogeologic Setting

1.3.1 Regional Geology

The site is centrally located within the Santa Rosa Plain, which is part of the Coast Range Geomorphic Province of northern California. The Coast Range Geomorphic Province is characterized as a series of northwest trending elongated ridges and valleys that are a result of folding and faulting. The Santa Rosa Plain consists of alluvial fan deposits of Pleistocene and Holocene age. The alluvial fan deposits form a nearly continuous blanket over the Santa Rosa Plain and consist of poorly sorted coarse sand and gravel, moderately sorted fine sand and silt, and silty clay. The region has been mapped as having basement materials that underlie the alluvial fan deposits. The basement materials consist of marine sedimentary rocks of the Miocene Age Wilson Grove Formation. Portions of the Wilson Grove Formation are overlain by younger continental sedimentary rocks of the Pliocene-Pleistocene Age Glen Ellen Formation (EBA, 2008b).

1.3.2 Site Geology and Hydrogeology

The geology of the project site is characterized by shallow rocky fill or organic clay in the upper one to two feet below ground surface (bgs) that is underlain by sandy silt and clayey sediments containing varying amounts of angular to sub-rounded gravel. These finer-grained sediments extend to approximately 20 feet bgs, and are underlain by a laterally continuous sandy coarse-grained unit extending to at least 26 feet bgs, the maximum depth explored at the project site to date (EBA, 2008b).

The hydrogeology of the project site is likely controlled by gradational lenses of sediments separated by clayey layers. A thin, semi-continuous sandy unit located at an average depth of approximately 9-15 feet bgs overlays a similarly laterally extensive clayey bed. The more impervious clay units likely act as confining layers and inhibit the downward vertical migration of fluids. Based on this observation, the resulting perched groundwater in the upper permeable sand unit (Zone A) has been independently sampled from the deeper water-bearing zone present at a depth of approximately 20 to 25 feet bgs (EBA, 2008). However, EBA noted that wells SRMW-7 and SRMW-8 were screened across both zones. The predominant groundwater flow direction is approximately west-southwest across the project site towards Santa Rosa Creek (approximately 160 feet beyond the western side of the property). Therefore, the eastern portion of the project site is considered up gradient relative to the western portion (EBA, 2008b).

2.0 SITE INVESTIGATION

2.1 Scope of Work

As stated in the introduction, Antea Group addressed RWQCB concerns by conducting the following activities:

- **Soil Borings (B1 through B5):** Antea Group advanced five soil borings along the southwest property boundary to evaluate the relationship between on-site and off-site contamination.
- **Qualitative Borings (B6 through B12):** Antea Group advanced seven soil borings utilizing direct push rods equipped with cone penetration testing (CPT) tip and Ultra-Violet Optical Screening Tool (UVOST). Borings were advanced in the vicinity of the UST excavation where in November 2011, United Pumping Services (UPS) removed two 550-gallon tanks and encountered SPH within the excavation. UVOST technology was used to conduct a qualitative field screening of potential hydrocarbon distribution and to optimize sampling locations and potential monitoring well placement.
- **Soil Excavation:** Antea Group excavated soil in the area of soil boring SB-1 to remove hydrocarbon impacted soil observed at 12 feet bgs by EBA during their 2008 investigation.

2.2 Pre-Field Activities

Prior to initiating field activities, Antea Group produced a Health and Safety Plan (HASP) in accordance with Title 8, Section 5192 of the California Code of Regulations. The HASP contained a list of regulatory and emergency contacts, as well as a hospital route map to the nearest emergency facility. Field personnel conducted a daily review for site-specific updates or changes in work conditions. Antea Group obtained all necessary soil boring permits from Sonoma County for soil boring activities. UPS obtained the necessary permits for the excavation from the City of Santa Rosa Fire Department and Planning agencies. In addition, Antea Group and UPS conducted pre-field notifications, as required by the regulatory and permitting agencies. **Appendix C** includes copies of the permits obtained from Sonoma County and the City of Santa Rosa.

2.3 Field Activities

Prior to ground disturbance, Antea Group and UPS contacted Underground Service Alert (USA) North to mark the site for subsurface utilities and employed a private locator to clear each drilling location for subsurface obstructions and hazards. In addition, a California C-57 licensed drilling company cleared each soil boring using a hand auger to a minimum depth of five feet bgs.

2.3.1 Exploratory Soil Borings

On April 23, 2012, Antea Group advanced five soil borings (B1 through B5) on the southwestern boundary of the site utilizing 3.25-inch diameter direct-push rods driven to the terminus of each boring. **Figure 3** illustrates the location of the soil borings. The soil borings were logged continuously using the Unified Soil Classification System (USCS) under the direction of a State Registered Professional Geologist and screened at approximate 2-foot intervals with a photoionization detector (PID). The terminus for each exploratory boring was approximately 20 feet bgs.

Antea Group collected samples from three depth intervals in each boring for laboratory analysis based upon field observations. In each boring a sample was collected from one to five feet bgs, the deepest unsaturated soil interval and any intervals exhibiting the highest PID response or other criteria. The samples were collected from the acetate liner, immediately packed tightly into laboratory provided container and placed in an ice-chilled cooler pending transportation to the laboratory.

Following completion of each of the five soil borings, the driller inserted a pre-packed well screen for the collection of groundwater samples. The pre-packed well screens were five feet in length and consisted of 3/4-inch diameter Schedule 40 polyvinyl chloride (PVC) casing with 0.010-inch slots surrounded by 1.5-inches of 20/40 Grade sand encased in a stainless steel mesh. Antea Group collected grab groundwater samples from each boring utilizing a stainless steel bailer which was decontaminated after each location. The samples were placed in ice pending transportation to the laboratory. Following the collection of groundwater samples, each pre-packed screen was removed and the borehole was sealed with Portland cement grout.

Soil and groundwater samples collected from B1 through B5 were analyzed for the following:

- Diesel range organics (DRO), carbon chain range C10 – C28, and Motor oil range organics (MORO), carbon chain range C24 – C36, by Environmental Protection Agency (EPA) Method 8015B with silica gel cleanup;
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C SIM

Laboratory analytical reports are included in **Appendix E** and a summary of soil and groundwater analytical data is provided in **Tables 1 and 2**, respectively. Boring logs are included in **Appendix D**. Cross sections showing subsurface soils and current soil and groundwater analytical data are provided as **Figures 6 and 7**.

2.3.2 Qualitative Borings

On April 24 through 25, 2012, Antea Group advanced direct push rods equipped with CPT and UVOST modules (CPT-UVOST) in seven locations (B6 through B12) around the tank pit area recently evaluated by Antea Group. The CPT and UVOST sensors were simultaneously advanced in the same hole. The CPT-UVOST borings were advanced in the locations indicated on **Figure 2**.

During CPT advancement, shallow perched water (Zone A) was detected in borings B8, B10, and B12 at approximately 9 to 12 feet bgs. In these locations, advancement halted at the depth of the shallow water-bearing zone and a grab groundwater sample was collected by evacuating the CPT/UVOST rods from the borehole and advancing standard direct-push rods to the depth of the saturate zone to collect a groundwater sample. Although CPT logs (and pore pressure readings) did not indicate the presence of shallow perched water in B-7, due to the indication of hydrocarbons in boring B-7 illustrated by the UVOST screening profile, Antea Group attempted to collect a shallow groundwater sample from B-7 in the 10- to 14-foot depth interval. Boring B-7 would not yield

water for sample collection in the shallow interval as the perched zone was not present; an attempt to collect a shallow groundwater sample from B-11 was also unsuccessful.

Following the collection of groundwater samples from Zone A, the standard direct-push rods were evacuated from the borehole, and the CPT/UVOST rods were re-advanced in each borehole to complete the soil profile to the total explored depth. The terminus for each test location was approximately 22 to 25 feet bgs.

To avoid cross contamination of shallow and deeper groundwater zones, a second adjacent boring was advanced at each location for the collection of a deeper groundwater sample (Zone B).

Each groundwater sample was collected from a temporary well consisting of ¾-inch diameter Schedule 40 polyvinyl chloride (PVC) casing with 0.010-inch slots was inserted into the direct-push rods. The rods were then raised to expose the screen and allow groundwater to flow into the casing. Samples were collected from the casings utilizing a stainless steel bailer, then decanted into laboratory-provided containers and placed on ice pending transportation to the laboratory.

Following sample collection, each temporary well casing was removed, and the each borehole immediately sealed by tremming bentonite grout into the boring.

Groundwater samples collected from B6 through B12 were analyzed for the following:

- Diesel range organics (DRO), carbon chain range C10 – C28, and Motor oil range organics (MORO), carbon chain range C24 – C36, by Environmental Protection Agency (EPA) Method 8015B with silica gel cleanup;
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C SIM

Laboratory analytical reports are included in **Appendix E**; a summary groundwater analytical data is provided in **Table 2**. The CPT and UVOST profiles are included in **Appendix D**. Cross sections showing subsurface soils and current soil and groundwater analytical data are provided as **Figures 6 and 7**.

2.3.3 Soil Excavation

On July 9 through July 13, 2012 UPS and Antea Group conducted soil excavation in the area of former EBA soil boring SB-1. **Figure 5** depicts the extent of the excavation which was 45 feet by 15 feet. The final depth of the excavation was 13 feet bgs, which was the depth to groundwater, as directed by the RWQCB in their October 30, 2009 correspondence.

During the excavation, the breathing zone and surrounding vicinity was monitoring for health and safety purposes using a PID. No significant detections were observed on monitoring devices during excavation activities. Antea Group collected side wall and base samples from the pit. All of the side wall samples were collected roughly 10

feet apart at approximately 6.5 feet bgs with the exception of side wall samples NSW5, NSW6, ESW2, SSW6, and WSW2, which were collected roughly 20 feet apart at approximately 12 feet bgs. The location of sidewall and base samples are illustrated on **Figure 3**. Antea Group submitted the soil samples for the following analysis with the exception of BASE3 and SSW5, which not analyzed due to groundwater saturation:

- DRO and MORO by EPA Method 8015B with Silica Gel Cleanup;
- PAHs by EPA Method 8270C SIM;

For proper waste profiling, three composite soil samples were collected from the excavation area and were submitted for the analytes listed above, plus the following volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), and metals:

- Gasoline range organics (GRO), benzene, toluene, ethylbenzene and xylenes (BTEX compounds) by EPA Method 8260B;
- Tetrachloroethene (PCE) and trichloroethene (TCE) by EPA Method 8260;
- California Assessment Manual (CAM) 5 metals: cadmium, chromium, nickel, lead, zinc by EPA Method 6010B.

At the request of Sonoma County, Antea Group pumped and containerized groundwater from the excavation. The groundwater recovered from the excavation was temporarily stored on-site, and a composite sample was collected and submitted to a laboratory for the following rush analysis to allow for expedited disposal:

- DRO, and MORO, by EPA Method 8015B with Silica Gel Cleanup;
- GRO and VOCs by EPA Method 8260B;
- SVOCs by EPA Method 8270C;
- PAHs by EPA Method 8270C SIM;
- Total and dissolved CAM 5 Metals: cadmium, chromium, nickel, lead, and zinc, by EPA Method 6010B.

Once the analytical data was received, the groundwater was transported off-site and properly disposed. Composite samples that contained metals (chromium and nickel) detections above initial non-hazardous waste screening requirements were further analyzed for the soluble threshold limit concentration (STLC). STLC regulatory limits were not exceeded. Laboratory analytical reports are provided as **Appendix E** and a summary of soil analytical data is provided in **Table 1**. Waste water analytical is summarized in **Table 2**.

Approximately 758 tons of soil were excavated and properly disposed. Upon completion of soil removal and approval of the City of Santa Rosa Fire Department and RWQCB, the excavation was backfilled with approximately two feet of ballast rock, or 94.36 tons, at the base of the excavation pit. The ballast rock was covered with geofabric, then pea gravel backfilled the excavation and was simultaneously compacted to approximately five feet bgs. Approximately 285 tons of pea gravel was used to backfill the excavation pit, followed by 405 tons of base material, also simultaneously compacted from 5 feet bgs to ground surface. A licensed compaction engineer was onsite to oversee backfilling/compaction activities.

2.3.4 Decontamination and Disposal of Investigation Derived Waste

Soil Borings

Prior to use and between boring locations, down-hole equipment was decontaminated using high-pressure hot water spray. Soil cuttings and wastewater generated during soil boring activities were placed in Department of Transportation (DOT) approved 55-gallon drums, sealed and labeled in accordance with the corresponding DOT protocols for non-hazardous waste. The drums were sampled for characterization and temporarily stored on-site pending laboratory results, profiling, and the completion of excavation activities. UPS transported the laboratory-profiled waste from the investigation to an appropriate licensed facility at the time of disposal of waste generated during soil excavation activities.

Soil Excavation

UPS pumped approximately 1500 gallons of water from the base of the excavation pit on July 12, 2012. All liquid waste was shipped as non-hazardous liquid to Sea Port at 679 Seaport Blvd in Redwood City. An approximate 757.96 tons of waste soil was generated during excavation activities. Soil was shipped as non-hazardous to Recology Hay Road Facility located in Vacaville, CA on July 10, 2012 and Keller Canyon Sanitary Landfill located in Pittsburg, CA on July 11, 2012.

Appendix F includes the certified laboratory analytical reports of the waste characterization samples; **Appendix G** includes copies of waste manifests.

3.0 ANALYTICAL RESULTS AND DISCUSSION

Conestoga-Rovers and Associates (CRA) performed a data quality assessment and validation for laboratory reports generated for this investigation. CRA concluded that data included in the reports are valid for the intended purpose. Validation forms are included with laboratory analytical reports in **Appendix E**.

3.1 Exploratory Soil Borings

3.1.1 Soil Sampling Analytical Results

The analytical results from soil samples collected on April 23, 2012 are summarized in **Table 1**. Of the soil samples submitted only six samples (B1-5', B1-10', B1-16', B2-11', B4-5', and B4-12') had detections above laboratory reporting limits (LRLs). Of the detection above the LRLs, only two concentrations are above their San Francisco Bay RWQCB environmental screening levels (ESLs). The DRO concentration

in sample B2-11' [240 milligrams per kilogram (mg/kg)] and the concentration of DRO (810 mg/kg) detected in B4-12' exceeded the ESL of 83 mg/kg.

3.1.2 Grab Groundwater Results

The analytical results from groundwater samples collected on April 23, 2012 are summarized in **Table 2**. Detections of MORO, DRO, benzo(b)fluoranthene and pyrene were detected above ESLs in boring B1 and B2. Concentrations of MORO and DRO were detected above ESLs in boring B3 and concentrations of DRO and pyrene were detected above ESLs in boring B4. There were no detections above LRLs in the sample collected from B5. .

3.2 UVOST/CPT Borings

3.2.1 UVOST/CPT Advancement Results

The boring logs and results of the UVOST/CPT advancements are included in **Appendix D**. Analysis of the UVOST data suggests that the only boring displaying minor indications of hydrocarbon impacts is boring B7 at approximately 5 to 10 feet bgs.

3.2.2 Grab Groundwater Results

The analytical results from groundwater samples collected on April 24 through 25, 2012 are summarized in **Table 2**. There were no detections above the LRLs in in the groundwater samples collected from borings B6 though B12.

3.3 Soil Excavation

3.3.1 Soil Analytical Results

The analytical results from the samples collected on July 10 through 11, 2012 are included in **Table 1**. Multiple sidewall and base samples showed detection above the LRLs; however, only four samples had detections above ESLs. In samples SSW1 and SSW2, concentrations of MORO and DRO were above their residential ESL. Sample NSW5 had a detection of benzo(a)pyrene above its residential ESL. DRO in BASE2 and DRO/MORO in SSW1 and SSW2 exceed commercial/industrial ESLs.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group concludes the following regarding the recent investigation.

- Antea Group recognizes that PCE and TCE have been detected in groundwater beneath the site at various sampling locations; however, the former RWQCB case worker agreed with omitting VOC analysis due to the widespread nature of low-level VOCs & SVOCs, specifically PCE, TCE, and MTBE, which appear to be ubiquitous throughout the area and not related to former onsite activities. This is indicated by elevated VOC detections in up gradient well, MW-8. Additionally, soil samples collected onsite show only trace levels of VOCs, at concentrations that are below ESLs.
- Highest soil concentrations were reported along the southwestern property boundary.

- Groundwater concentrations detected above ESLs were on the southern-most portion of the southwestern property boundary (borings B1 and B2).
- Analysis of the UVOST data surrounding the former UST location suggests that the only boring displaying hydrocarbon impacts is boring B7 at approximately 5 to 10 feet bgs.
- None of the groundwater samples collected from the UVOST/CPT borings contained concentrations above ESLs.
- Based on the results of the UVOST/CPT borings, the 2011 UST removal and excavation appears to have been successful in removing contaminated soil to the extent practicable. In addition, data from the current investigation showed no detections in either water bearing zone around the former tank pit area.
- Significant secondary source soils were successfully removed during excavation activities in the area including and surrounding former EBA boring SB-1, as indicated by visual observation of soils removed as well as waste composite hydrocarbon concentrations.
- The results of the sidewall and base samples of the excavation in the vicinity of EBA boring SB-1 indicate that only samples from the southwest portion of the excavation exceed commercial/industrial ESLs for DRO and MORO.
- The potential exists that impacts along the southwest boundary of the site may be attributed to former operations on the neighboring property (60 West Sixth Street), which has its own history of petroleum product storage tanks and environmental investigations. EBA Engineering's (EBA) Report of Investigation Report dated February 27, 2006 indicates that there were significant groundwater impacts along the property boundary adjacent to the site. Impacts of motor oil concentrations ranged from 130 mg/L - 130,000 mg/L along the property boundary of the adjacent site. In addition, a former underground concrete diesel storage tank was on the adjacent property, near recently advanced boring B3, as well as former underground oil storage tanks just northwest of B-3 and B-2, as depicted on Figure 2 of Kennedy/Jenks Consultant's *Source Area Removal Report, Santa Rosa Station, Santa Rosa, California*, dated January 29, 2004.
- Analytical data from the current investigation and historic data points near and hydraulically upgradient of the property line also suggest that onsite discharges may not be the primary source of impacts along the southwestern property boundary. The highest hydrocarbon impacts appear to reside within the permeable soils that lie at depths between 15 and 20 feet at the property boundary, with relatively low impacts at these depths between former onsite source areas and current significant impacts at the property boundary, suggesting that lateral transport from offsite sources may have occurred preferentially through permeable soil layers rather than from onsite sources in the direction of groundwater flow (**Figure 7**).
- In their August 10, 2012 correspondence, the RWQCB requested submittal of this report and a work plan for the installation of monitoring wells, proposed locations and installation schedule. The *Site*

Assessment Work Plan dated February 29, 2012 included the proposed work scope for monitoring well installation. Antea Group recommends proceeding with the installation of groundwater monitoring wells as proposed in Antea Group's *Site Assessment Work Plan* dated February 29, 2012, but in the locations shown on **Figure 2**. Proposed well locations were selected based upon areas with the highest groundwater impacts along the property boundary, and to monitor the vicinity immediately upgradient of these locations as well as downgradient of the recent UST excavation.

- An extension to the Right of Entry Agreement between UPRR and SMART was obtained on October 3, 2012. This agreement, coupled with the well proposed locations, will allow for prompt well installation.

5.0 SCHEDULE FOR PROPOSED WELL INSTALL AND REPORTING

Antea Group anticipates regulatory comment of the proposed scope of work within 60 days. Antea Group will obtain all necessary permits following RWQCB and SMART approval of the proposed well locations shown on **Figure 2** and the well installation scope as outlined in Antea Group's *Site Assessment Work Plan* dated February 29, 2012. Antea Group will commence field activities within 45 days of receipt approval from the RWQCB.

Upon completion of the fieldwork, Antea Group will prepare a report describing field activities, methods, and analytical results. Antea Group will evaluate the findings of the investigation and include additional recommendations as appropriate.

It is further estimated that the final report will be ready for submittal approximately 45 days after receipt of the sample analytical results.

6.0 REMARKS

The recommendations contained in this document 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 document is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. 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 document will be performed. This document 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 document. 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 document.

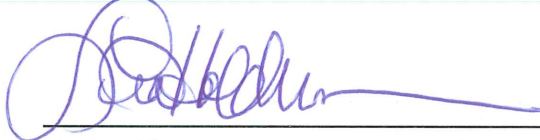
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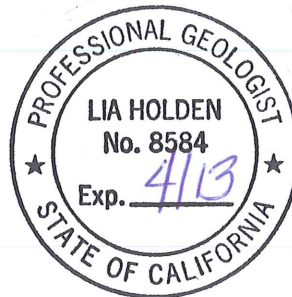
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Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

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7.0 REFERENCES

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Tables

Table 1	Site Soil Sampling Analytical Data
Table 2	Groundwater Sampling Analytical Data

Table 1
Soil Sampling Analytical Data
 Union Pacific Railroad
 2 Fourth Street and 34 Sixth Street
 Santa Rosa, California

Field Point	Sample Name	Sample Date	Sample Depth (feet bgs)	GRO ¹ (mg/Kg)	MORO ¹ (mg/kg)	DRO ¹ (mg/Kg)	PAHs ² (mg/kg)	Metals ³ (mg/kg)
Site Assessment Soil Samples								
B1-5'	SO-2344-B1-5'-042312	4/23/2012	5.0	NA	51	15	Benzo[b]fluoranthene (0.035), Fluoranthene (0.027)	NA
B1-10'	SO-2344-B1-10'-042312	4/23/2012	10.0	NA	87	25	<LRLs	NA
B1-16'	SO-2344-B1-16'-042312	4/23/2012	16.0	NA	<50	49	<LRLs	NA
B2--5'	SO-2344-B2-5'-042312	4/23/2012	5.0	NA	<50	<1.0	<LRLs	NA
B2-11'	SO-2344-B2-11'-042312	4/23/2012	11.0	NA	610	240	<LRLs	NA
B2-14'	SO-2344-B2-14'-042312	4/23/2012	14.0	NA	<49	<0.98	<LRLs	NA
B3-5'	SO-2344-B3-5'-042312	4/23/2012	5.0	NA	<50	<1.0	<LRLs	NA
B3-12'	SO-2344-B3-12'-042312	4/23/2012	12.0	NA	<50	<1.0	<LRLs	NA
B3-15.5'	SO-2344-B3-15.5'-042312	4/23/2012	15.5	NA	<50	<1.0	<LRLs	NA
B4-5'	SO-2344-B4-5'-042312	4/23/2012	5.0	NA	220	77	<LRLs	NA
B4-12'	SO-2344-B4-12'-042312	4/23/2012	12.0	NA	<500	810	Napthalene (0.02) and Pyrene (0.017)	NA
B4-16'	SO-2344-B4-16'-042312	4/23/2012	16.0	NA	<50	<0.99	<LRLs	NA
B5-5'	SO-2344-B5-5'-042312	4/23/2012	5.0	NA	<49	<0.99	<LRLs	NA
B5-10'	SO-2344-B5-10'-042312	4/23/2012	10.0	NA	<50	<1.0	Benzo[b]fluoranthene (0.0052)	NA
B5-16'	SO-2344-B5-16'-042312	4/23/2012	16.0	NA	<50	<1.0	<LRLs	NA
2012 Excavation Soil Samples								
BASE 1	SO-2344-BASE1-100712	7/10/2012	13.0	NA	63	40	<LRLs	NA
BASE 2	SO-2344-BASE2-100712	7/10/2012	13.0	NA	180	170	Pyrene (0.0082)	NA
BASE 4	SO-2344-BASE4-110712	7/11/2012	13.0	NA	<50	<0.99	<LRLs	NA
ESW1	SO-2344-ESW1-110712	7/11/2012	6.5	NA	<49	20	<LRLs	NA
ESW2	SO-2344-ESW2-110712	7/11/2012	12.0	NA	<50	<1.0	<LRLs	NA
NSW1	SO-2344-NSW1-100712	7/10/2012	6.5	NA	<50	18	<LRLs	NA
NSW2	SO-2344-NSW2-100712	7/10/2012	6.5	NA	<50	<1.0	<LRLs	NA
NSW3	SO-2344-NSW3-110712	7/11/2012	6.5	NA	<50	<1.0	<LRLs	NA
NSW4	SO-2344-NSW4-110712	7/11/2012	6.5	NA	<49	<0.99	<LRLs	NA
NSW5	SO-2344-NSW5-110712	7/11/2012	12.0	NA	55	28	Benzo[a]pyrene (0.067), benzo[b]fluoranthene (0.110), benzo[g,h,i]perylene (0.054), Chrysene (0.053), Fluoranthene (0.074), Phenanthrene (0.060), and Pyrene (0.120)	NA
NSW6	SO-2344-NSW6-110712	7/11/2012	12.0	NA	<49	<0.98	Fluoranthene (0.0056), Phenanthrene (0.0077), and Pyrene (0.025)	NA
SSW1	SO-2344-SSW1-100712	7/10/2012	6.5	NA	500	320	<LRLs	NA
SSW2	SO-2344-SSW2-100712	7/10/2012	6.5	NA	2000	1,800	Benzo[a]anthracene (0.056), Chrysene (0.072), and Pyrene (0.062)	NA
SSW3	SO-2344-SSW3-110712	7/11/2012	6.5	NA	93	39	<LRLs	NA
SSW4	SO-2344-SSW4-110712	7/11/2012	6.5	NA	<50	<0.99	<LRLs	NA
SSW6	SO-2344-SSW6-110712	7/11/2012	12.0	NA	<50	2.7	<LRLs	NA
WSW1	SO-2344-WSW1-100712	7/10/2012	6.5	NA	<50	1.0	<LRLs	NA
WSW2	SO-2344-WSW2-110712	7/11/2012	12.0	NA	<50	37	Phenanthrene (0.020)	NA
Excavation Soil Comp - 1	SO-2344-COMP1-100712	7/10/2012	--	<230	84	44	<LRLs	Chromium (120)**, Nickel (140)**, Lead (8.0) and Zinc (56)
Excavation Soil Comp - 2	SO-2344-COMP2-100712	7/10/2012	--	800	4600	4200	Acenaphthene (180), Acenaphthylene (53), Fluorene (57) and Pyrene (85)	Cadmium (0.51), Chromium (90)**, Nickel (140)**, Lead (6.9) and Zinc (56)
Excavation Soil Comp - 3	SO-2344-COMP3-110712	7/11/2012	--	<260	310	160	Benzo[g,h,i]perylene (38)	Chromium (81)**, Nickel (140)**, Lead (4.7) and Zinc (42)

Table 1
Soil Sampling Analytical Data
 Union Pacific Railroad
 2 Fourth Street and 34 Sixth Street
 Santa Rosa, California

Field Point	Sample Name	Sample Date	Sample Depth (feet bgs)	GRO ¹ (mg/Kg)	MORO ¹ (mg/kg)	DRO ¹ (mg/Kg)	PAHs ² (mg/kg)	Metals ³ (mg/kg)
Residential ESL (shallow/deep)	--	--	--	83	370/5000	83	Acenaphthene (16*), Acenaphthylene (13*), Fluorene (8.9*), Benzo[b]fluoranthene (0.38/15), Benzo[a]pyrene (0.038/0.13), Benzo[g,h,i]perylene (27*), Chrysene (23*), Fluoranthene (40/60), Phenanthrene (11*), Pyrene (85*), Napthalene (1.3/3.4)	Cadmium (1.7/390), Chromium (1000/2500), Nickel (150/260), Lead (200/750) and Zinc (600/2500)
Commercial/Ind ESL (shallow/deep)	--	--	--	83	2500/5000	83	Acenaphthene (16*), Acenaphthylene (13*), Fluorene (8.9*), Benzo[b]fluoranthene (13/15), Benzo[a]pyrene (1.5*), Benzo[g,h,i]perylene (27*), Chrysene (23*), Fluoranthene (40/60), Phenanthrene (11*), Pyrene (85*), Napthalene (2.8/3.4)	Cadmium (7.4/390), Chromium (2500/5000), Nickel (150/260), Lead (750/750) and Zinc (600/2500)

Notes:

< - Denotes less than the Laboratory Reporting Limit (LRL)

mg/kg - milligrams per kilogram

mg/L - Milligrams per Liter

bgs - Below Ground Surface

Bold - Reported concentration exceeded the LRL

NA - Not Analyzed

EPA - Environmental Protection Agency

ESL - San Francisco Bay RWQCB Environmental Screening Levels

* - ESL is the same for shallow and deep soils

** - Based on the total concentration detected, a Soluble Threshold Limit Concentration (STLC) analysis was also performed

Analytical Notes

1 - Analyzed by EPA Method 8015B with Silica Gel Cleanup

2 - Analyzed by EPA Method 8270C SIM

3 - Analyzed by EPA Method 6010B

Analyte Definitions:

MORO - Motor Oil Range Organics

DRO - Diesel range organics

GRO - Gasoline range organics

VOCs - Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

Table 2
Groundwater Sampling Analytical Data
 Union Pacific Railroad
 2 Fourth Street and 34 Sixth Street
 Santa Rosa, California

Field Point	Sample Name	Sample Date	MORO ¹ (ug/L)	DRO ¹ (ug/L)	PAHs ² (ug/L)	Metals ³ (mg/L)
B1	W-2344-B1-042312	4/23/2012	4,700	5,600	Naphthalene (1.7), Benzo(b)fluoranthene (1.2), and Pyrene (2.7)	NA
B2	W-2344-B2-042312	4/23/2012	94,000	110,000	Naphthalene (1.4), Benzo(b)fluoranthene (1.0), and Pyrene (2.5)	NA
B3	W-2344-B3-042312	4/23/2012	1,900	2,000	<LRLs	NA
B4	W-2344-B4-042312	4/23/2012	<1,100	32,000	Naphthalene (0.36) and Pyrene (0.38)	NA
B5	W-2344-B5-042312	4/23/2012	<110	<56	<LRLs	NA
B6B	W-2344-B6B-042412	4/24/2012	<120	<59	<LRLs	NA
B7B	W-2344-B7B-042412	4/24/2012	<120	<62	<LRLs	NA
B8A	W-2344-B8A-042512	4/24/2012	<120	<62	<LRLs	NA
B8B	W-2344-B8B-0424-12	4/24/2012	<120	<62	<LRLs	NA
B9B	W-2344-B9B-042512	4/25/2012	<120	<61	<LRLs	NA
B10A	W-2344-B10A-042512	4/25/2012	<120	<58	<LRLs	NA
B10B	W-2344-B10B-042512	4/25/2012	<120	<62	<LRLs	NA
B11B	W-2344-B11B-042512	4/25/2012	<120	<62	<LRLs	NA
B12A	W-2344-B12A-042512	4/25/2012	<110	<57	<LRLs	NA
B12B	W-2344-B12B-042512	4/25/2012	<120	<61	<LRLs	NA
Excavation Waste Water	W2344-COMP-120712	7/12/2012	6,100	1,900	<LRLs	Lead (0.006) and Zinc (0.023)
Residential	--	--	100	100	Naphthalene (17), Benzo(b)fluoranthene (0.029), and Pyrene (2.0)	Lead (2.5) and Zinc (81)
Commercial/Ind	--	--	100	100	Naphthalene (17), Benzo(b)fluoranthene (0.029), and Pyrene (2.0)	Lead (2.5) and Zinc (81)

Notes:

< - Denotes less than the Laboratory Reporting Limit (LRL)

ug/L - Micrograms per Liter

bgs - Below Ground Surface

Bold - Reported concentration exceeded the LRL

EPA - Environmental Protection Agency

B12"A" - "A" Indicates that the water samples was collected from shallow/perched water zone

B12"B" - "B" Indicates that the water samples was collected from the deep water zone

NA - Not Analyzed

Analytical Notes

1 - Analyzed by EPA Method 8015B with Silica Gel Cleanup

2 - Analyzed by EPA Method 8270C SIM

3- Analyzed by EPA Method 6010B

Analyte Definitions:

MORO - Motor Oil Range Organics

DRO - Diesel range organics

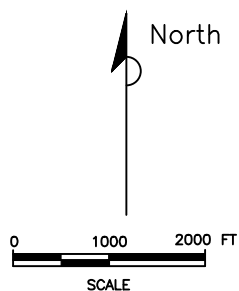
GRO - Gasoline range organics

VOCs - Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

Figures

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Soil Concentration Map (Soil Borings)
Figure 4	Groundwater Concentration Map
Figure 5	2012 Excavation Soil Data Map
Figure 6	Cross Section A – A'
Figure 7	Cross Section B – B'



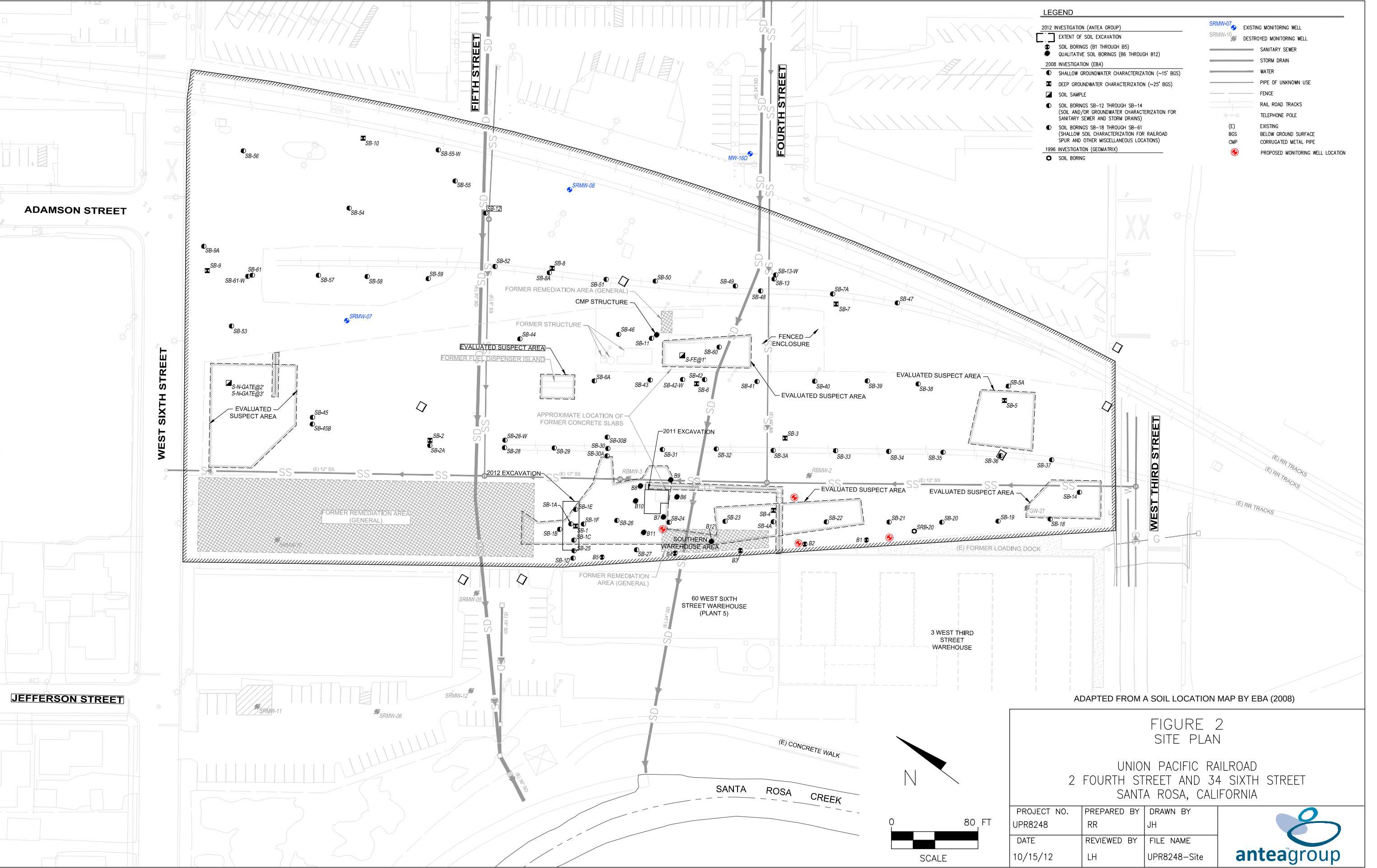
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SANTA ROSA QUADRANGLE (1973)

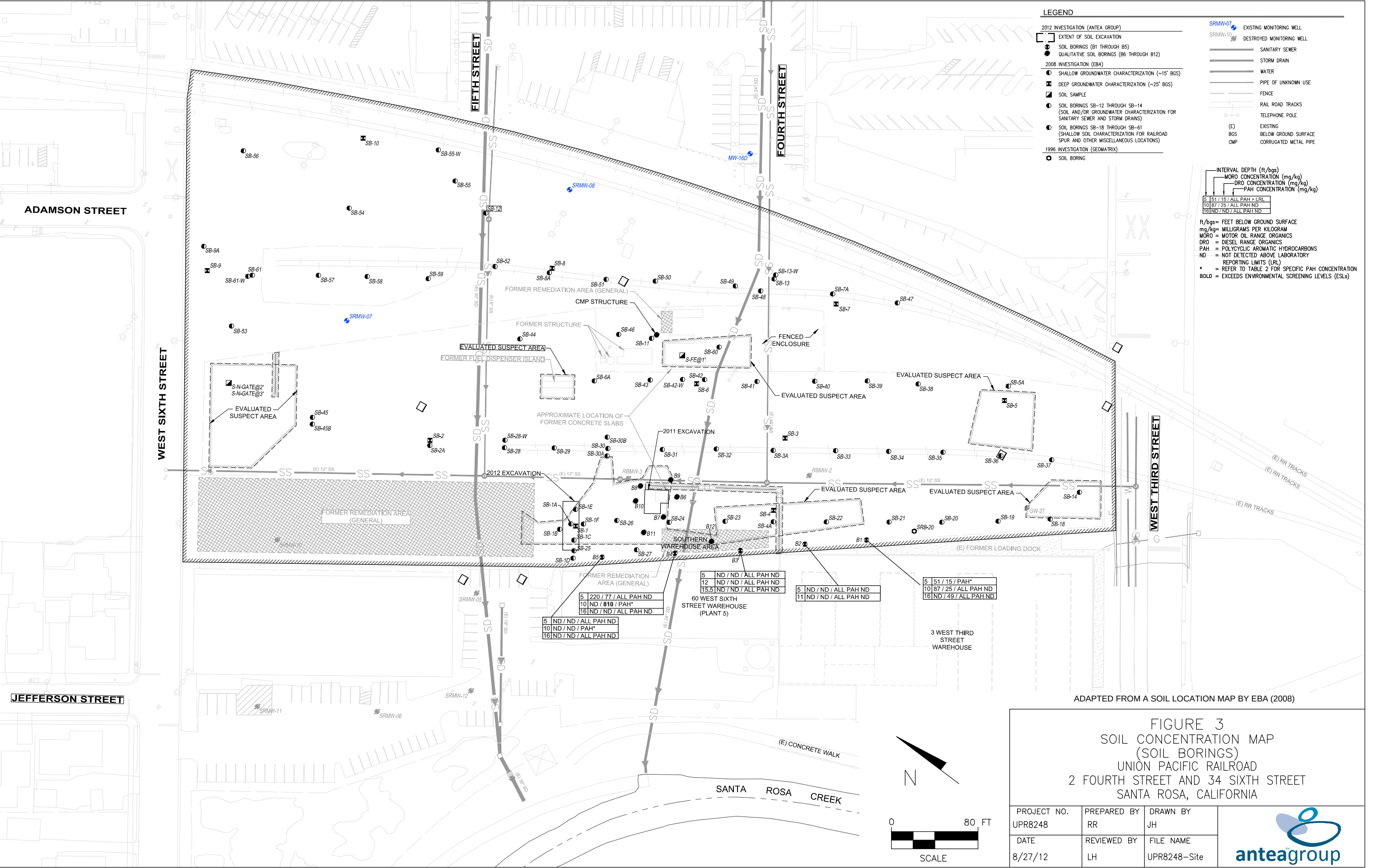
FIGURE 1
SITE LOCATION MAP

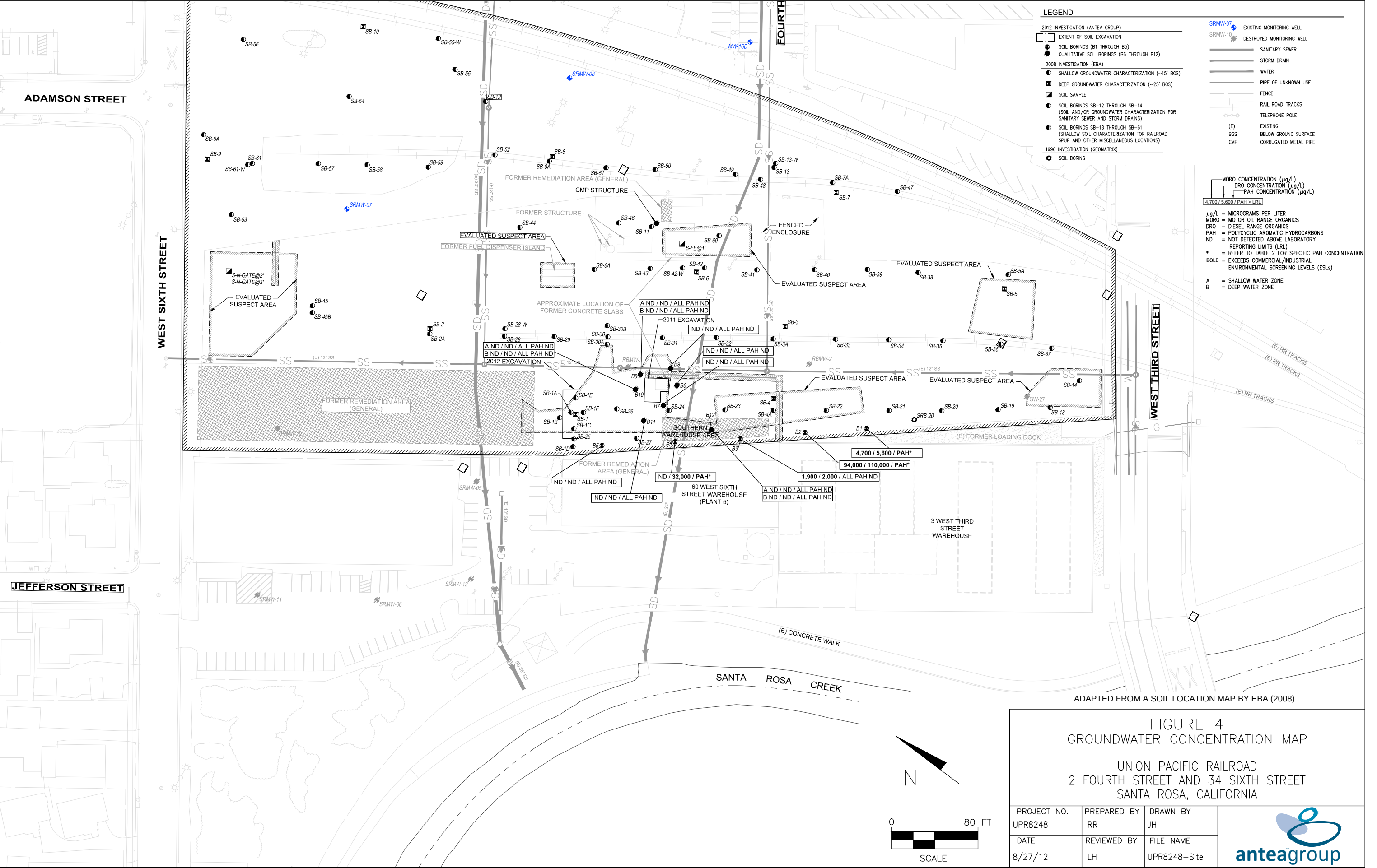
UNION PACIFIC RAILROAD
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA

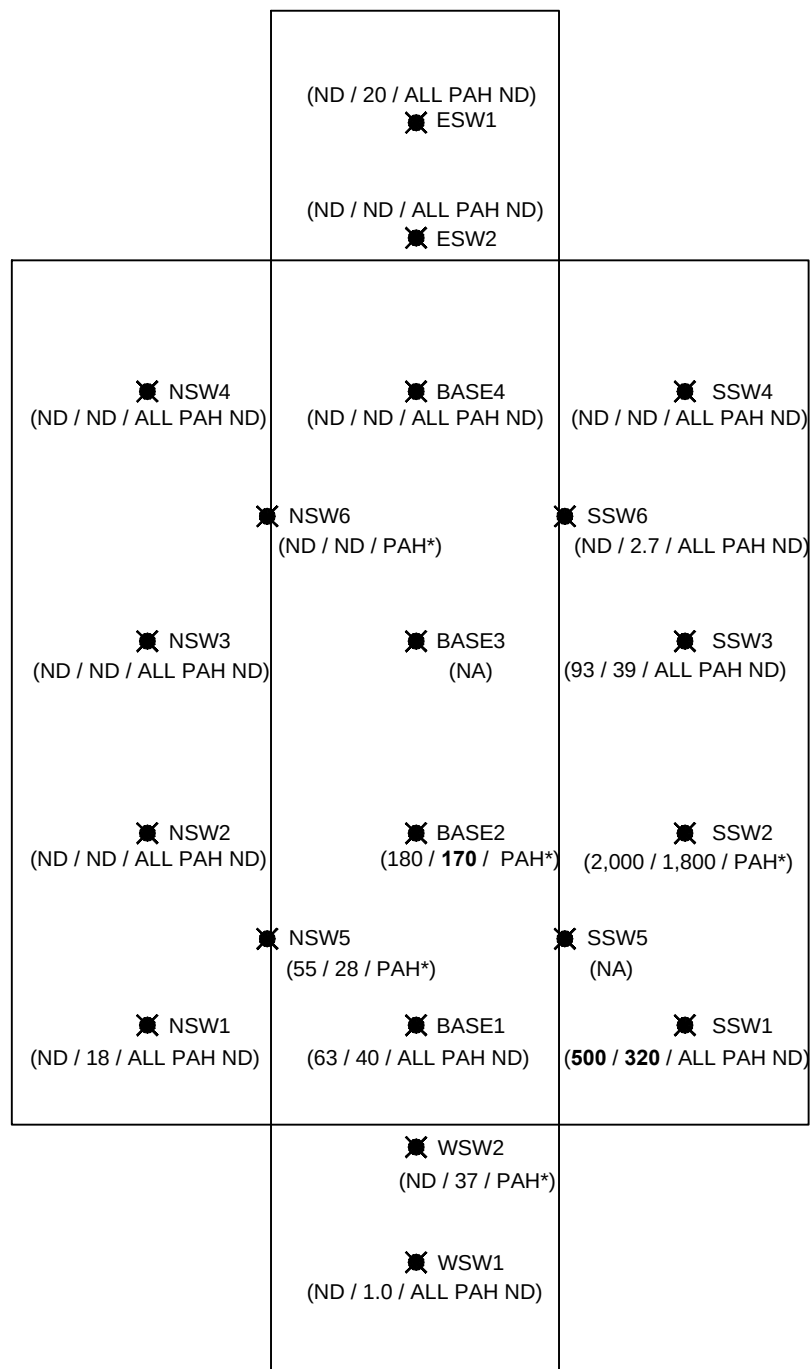
PROJECT NO. UPR8248	PREPARED BY SM	DRAWN BY JH
DATE 11/22/11	REVIEWED BY LH	FILE NAME UPR8248-TOP0











LEGEND

✖ SOIL SAMPLE LOCATION

(93 / 39 / ALL PAH ND) MORO / DRO / PAH CONCENTRATION IN MILLIGRAMS PER KILOGRAM (mg/kg)

NOTES

mg/kg = MILLIGRAMS PER KILOGRAM

MORO = MOTOR OIL RANGE ORGANICS

DRO = DIESEL RANGE ORGANICS

PAH = POLYCYCLIC AROMATIC HYDROCARBONS

* = REFER TO TABLE 1 FOR SPECIFIC PAH CONCENTRATION
ND = LESS THAN LABORATORY INDICATED REPORTING LIMITS (LRL)

NA = NOT ANALYZED

BOLD = EXCEEDS ENVIRONMENTAL SCREENING LEVEL (ESL)

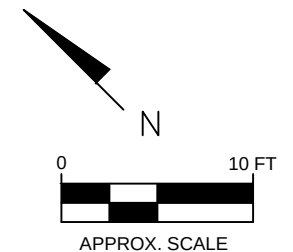
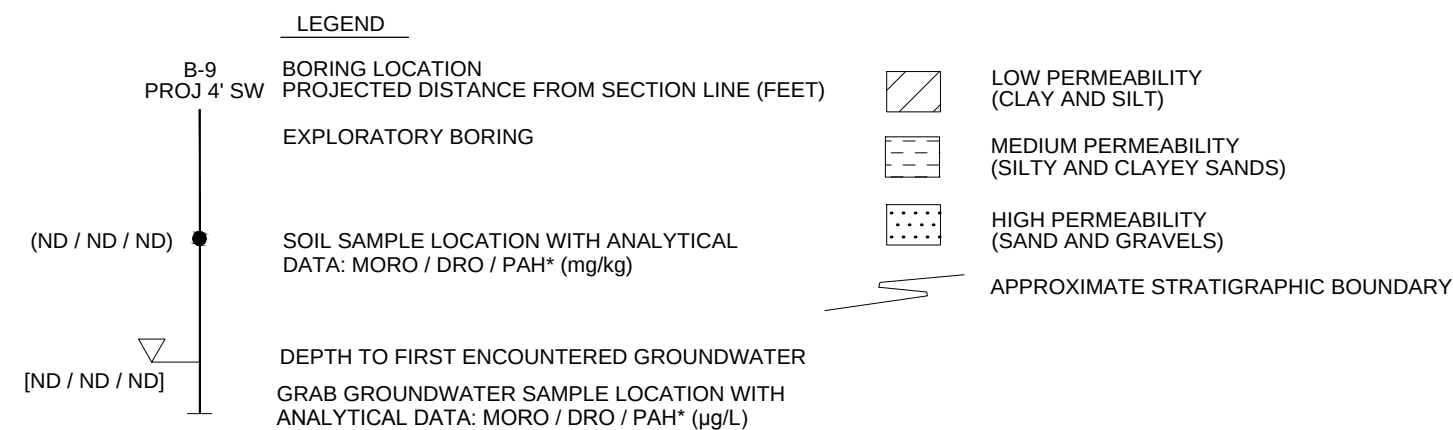
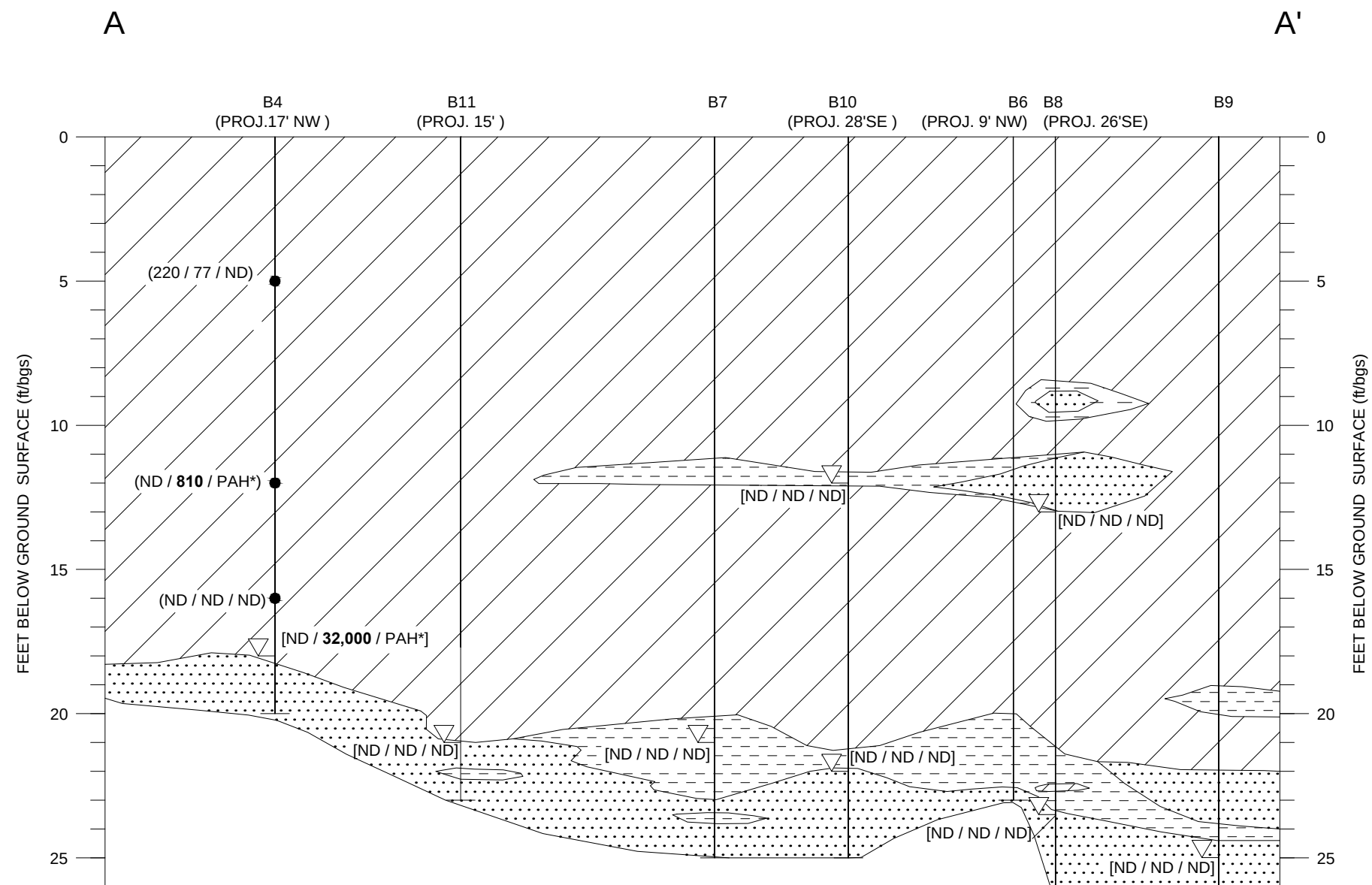


FIGURE 5
2012 EXCAVATION SOIL DATA MAP

UNION PACIFIC RAILROAD
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA

PROJECT NO. UPR8248	PREPARED BY RR	DRAWN BY JH	
DATE 8/27/12	REVIEWED BY LH	FILE NAME UPR8248-Excav	



NOTES:

MORO= MOTOR OIL RANGE ORGANICS
 DRO = DIESEL RANGE ORGANICS
 PAH = POLYCYCLIC AROMATIC HYDROCARBONS
 PAH* = REFER TO TABLES 1 & 2 FOR SPECIFIC PAH CONCENTRATION
 mg/kg = MILLIGRAMS PER KILOGRAM
 µg/L = MICROGRAMS PER LITER
 ND = LESS THAN LABORATORY INDICATED REPORTING LIMITS
BOLD= EXCEEDS ENVIRONMENTAL SCREENING LEVELS (ESL)

STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

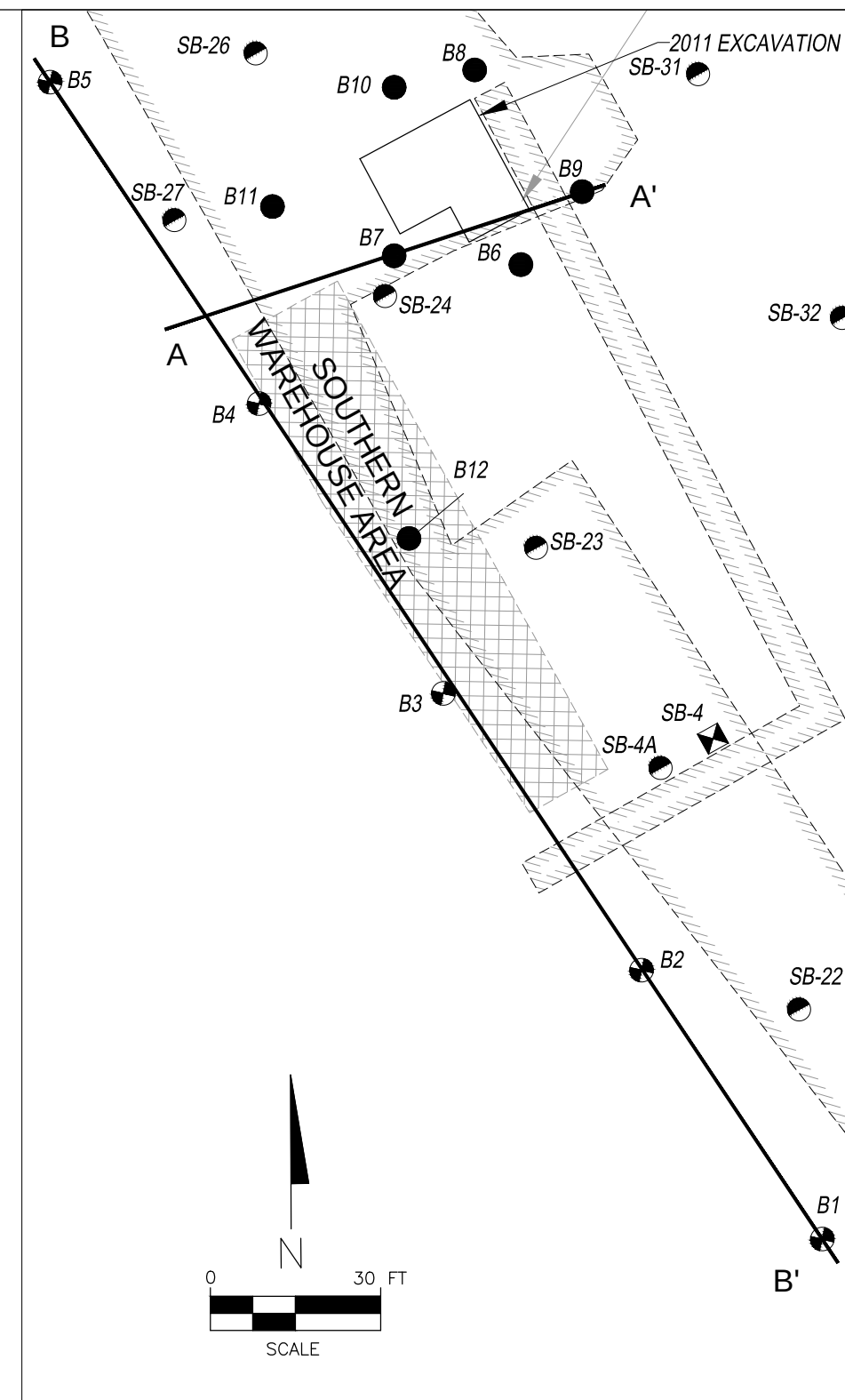
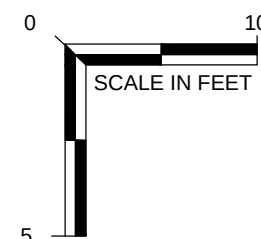


FIGURE 6
CROSS SECTION A – A'

UNION PACIFIC RAILROAD
 2 FOURTH STREET AND 34 SIXTH STREET
 SANTA ROSA, CALIFORNIA

PROJECT NO. UPR8248	PREPARED BY RR	DRAWN BY JH
DATE 8/29/12	REVIEWED BY LH	FILE NAME UPR8248–Cross



Appendix A

Agency Correspondence



Matt Rodriguez
Secretary for
Environmental Protection

**California Regional Water Quality Control Board
North Coast Region
Geoffrey M. Hales, Chairman**

www.waterboards.ca.gov/northcoast
5550 Skylane Boulevard, Suite A, Santa Rosa, California 95403
Phone: (877) 721-9203 (toll free) • Office: (707) 576-2220 • FAX: (707) 523-0135



Edmund G. Brown Jr.
Governor

January 19, 2012

Mr. James Diel
Union Pacific Railroad
9451 Atkinson Street
Suite 100
Roseville, CA 95747

Mr. John Nemeth
Sonoma Marin Area Rail Transit
750 Landaro Street,
Suite 200
San Rafael, CA 94901

Gentlemen:

Subject: Case Status

File: Southern Pacific Transportation Company, 3rd Street Property
Santa Rosa, Case Nos. 1TSR196 and 1NSR196

In the Regional Water Board staff letter dated July 22, 2011, remaining items to be completed were identified, which included the removal of the oil underground storage tank; removal of known shallow soil impacts; and removal of impacted soil in the vicinity of SB-1. It was stated that if evidence of a discharge is revealed at the time of tank removal, contaminated soil must be removed and depending upon the degree of discharge, the impact to water quality may need to be investigated. The purpose of this letter is to bring this file up to date summarizing work conducted since July 2011 and reiterating work items that remain to be completed.

Underground Storage Tanks

On November 3, 2011, the underground oil storage tank was removed. At the time of removal, a second tank was discovered and removed along with visually impacted soil. The excavation was continued to groundwater where separate phase oil product was observed.

Based on recent communications with Antea Group staff working on behalf of Union Pacific Railroad, report preparation is in progress and submittal is anticipated in the next few weeks.

Shallow Soil Impacts

As previously stated, shallow soil impacts may be addressed prior to and/or during property development.

California Environmental Protection Agency

Recycled Paper

Soil Removal at SB-1

Soil removal in the area of SB-1 must be completed as soon as possible and prior to land development activities. The work may be conducted according to the existing work plan prepared by EBA Engineering submitted on behalf of the Railroad Square Associates, LLC (who is not a responsible party) or a new work plan. If someone other than EBA Engineering implements the existing work plan, the licensed professional in responsible charge of the project must be identified.

Based on the current development plans, a delay in completing remedial actions in the area of SB-1 may impact the installation of proposed infrastructure.

Extent of Groundwater Impacts

In addition to the soil removal project at SB-1, a work plan must be submitted to investigate the extent of groundwater impacts including the presence of separate phase oil at the former tank location, groundwater impacts in the area of SB-1, and clarify the relationship of on-site discharges and off-site impacts to the west beneath adjacent properties. The work plan is due within 45-days of issuance of this letter.

If you have any questions or would like to meet to discuss this case, I can be reached at (707) 576-2675 and Jfleck@waterboards.ca.gov.

Sincerely,



Joan Fleck
Engineering Geologist

120119_JEF_SPTTransCo

cc:

Santa Rosa Fire Department (GBuckheit@srcity.org)

Mr. Paul Nelson (pnelson@ebagroup.com)

Ms. Joan Thomas, SMART (jthomas@sonomamarintrain.org)

Ms. Cappie Garrett, 1104 McDonald Avenue, Santa Rosa, CA 95404

Mr. Richard Devine, Devine & Gong, Inc. 100 Bush Street, Suite 600, San Francisco, CA 94104-3703 (rdevine@devinegong.com)

Mr. Michael Dieden, Creative Housing Associates, 8758 Venice Boulevard, Suite 101, Los Angeles, CA 90034

Mr. John Stewart, The John Stewart Company, 1388 Sutter Street, 11th Floor, San Francisco, Ca 94109

Salvador Family Partnership, 5582 Drakes Drive, Byron CA 94514

California Environmental Protection Agency

Ms. Deborah Fudge, P.O. Box 100, Windsor, CA 95492-0100
Mr. John Nemeth (jnemeth@sonomamarintrain.org)
Ms. Lisa Pheatt, County Counsel (lpheatt@sonoma-county.org)

North Coast Regional Water Quality Control Board

March 19, 2012

Mr. James Diel
Union Pacific Railroad
9451 Atkinson Street
Suite 100
Roseville, CA 95747

Mr. John Nemeth
Sonoma Marin Area Rail Transit
750 Landaro Street,
Suite 200
San Rafael, CA 94901

Gentlemen:

Subject: UST Removal Report and Site Assessment Work Plan

File: Southern Pacific Transportation Company, 3rd Street Property
Santa Rosa, Case Nos. 1TSR196 and 1NSR196

Regional Water Board staff (staff) reviewed the January 24, 2012 *UST Removal Report* and the February 29, 2012 *Site Assessment Work Plan* prepared by Antea™ Group for the former rail yard in Santa Rosa. Staff has no comments on the *UST Removal Report*. The *Site Assessment Work Plan* was discussed with Antea™ Group staff on March 15, 2012. The discussions included:

- The excavation of impacted soil in the vicinity of SB-1 (as proposed in the EBA Engineering *Soil Excavation Work Plan* dated October 2009) is acceptable. The excavation depth is to groundwater and groundwater/separate phase hydrocarbon removal from the open excavation is planned.
- The drilling of qualitative borings using the CPT-UVOST technology is acceptable. However, the extent of dissolved phase hydrocarbons must also be defined. Staff request that grab groundwater samples also be collected for chemical analysis.
- The drilling of the exploratory soil borings on the southwestern boundary is acceptable.

By copy of this letter, Santa Rosa Fire and Sonoma County Environmental Health have been informed of our concurrence to enable the processing of the excavation and drilling permits, respectively. Due to competing interests at this property and the need to coordinate efforts, an expedited work plan implementation schedule is highly encouraged.

If you have any questions, I can be reached at (707) 576-2675 and Jfleck@waterboards.ca.gov.

Sincerely,

Original signed by

Joan Fleck
Engineering Geologist

120319_JEF_UPRR

cc:

Santa Rosa Fire Department GBuckheit@srcity.org
Mr. Paul Nelson pnelson@ebagroup.com
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Ms. Deborah Fudge, P.O. Box 100, Windsor, CA 95492-0100
Mr. John Nemeth, SMART jnemeth@sonomamarintrain.org
Ms. Lisa Pheatt, County Counsel lpheatt@sonoma-county.org
Ms. Laura Giraud, SMART Real Estate Manager lgiraud@sonomamarintrain.org
Ms. Lia Holden, Antea™ Group, lia.holden@anteagroup.com
Ms. Kathleen A. Millison, City Manager, City of Santa Rosa kmillison@srcity.org

Appendix B

Site Details and Summary of Previous Environmental Investigations

PREVIOUS INVESTIGATION AND SITE HISTORY SUMMARY

Over the history of environmental activities at the site, laboratories and consultants have used a wide variety of terms for petroleum hydrocarbons reported in analysis of soil and water. Soil and groundwater samples are analyzed typically by Environmental Protection Agency (EPA) method 8015B or 8260B. Antea Group uses the designation GRO for total petroleum hydrocarbons as gasoline within the C₅ to C₁₀ carbon range, DRO for total petroleum hydrocarbons as diesel within the C₁₀ to C₂₈ carbon range, and RRO for total petroleum hydrocarbons as residual range organics (oil) within the C₂₄ to C₄₀ carbon range.

Terms from previous reports may include total recoverable petroleum hydrocarbons (TRPH), total purgeable petroleum hydrocarbons (TPPH) for GRO, total extractable petroleum hydrocarbons (TEPH) for DRO, and total volatile hydrocarbon (TVH) which refers to a broad carbon range. More specific historical terms are total petroleum hydrocarbons as gasoline (TPHg or TPH-G), total petroleum hydrocarbons as diesel (TPHd or TPH-D), and total petroleum hydrocarbons as oil or motor oil (TPHo, TPHmo, TPH-O, or TPH-MO). The designations are generally comparable to GRO, DRO, and RRO. Antea Group has left the original designation when summarizing historic data and the current designations when applied to recent investigations and summary discussions.

SITE HISTORY

In December 1987, Canonie Environmental Services Corporation (Canonie) removed three USTs from the site. These included a 230-gallon fuel oil UST, a 10,000-gallon diesel UST, and a 10,000-gallon gasoline UST, which were located within and northwest of the existing fenced enclosure. During UST removal activities, no holes or signs of leakage or overfilling were noted for any of the tanks. TPH were not detected above laboratory reporting limits in the soil samples collected from beneath the USTs (Industrial Compliance [IC], 1992).

In April 1990, the North Coast Regional Water Quality Control Board (RWQCB) drilled four borings in the western portion of the property and installed monitoring wells in two of the borings (MW-2 and MW-3). Monitoring well MW-3 was located approximately 100 feet down gradient (to the southwest) of the former fuel oil UST. Based on information presented in a July 1992 report by IC, analytical results for samples collected from the RWQCB borings showed that no petroleum hydrocarbons were present in soil samples collected from soil boring B-1. However, oil and grease was present in the soil sample collected from boring B-1 at 12 feet bgs at a concentration of 200 milligrams per kilogram (mg/kg). Additionally, this sample contained low concentrations of polynuclear aromatic hydrocarbons (PAHs). Soil samples collected at depths of 6 and 16 feet below ground surface (bgs) from soil boring MW-3 contained petroleum hydrocarbons quantified as diesel (TPHd) at concentrations of 11 and 30 mg/kg, respectively. No petroleum hydrocarbons were detected in the groundwater sample collected by the RWQCB from monitoring well MW-2; TPHd was detected at a concentration of 0.4 milligrams per liter (mg/l) in the groundwater sample collected at monitoring well MW-3 (Geomatrix Consultants, Inc. [Geomatrix], 2000).

Soil and grab groundwater samples were collected from five borings located near the former UST area by IC in 1992. No detectable concentrations of petroleum hydrocarbons, benzene, toluene, ethylbenzene, or xylenes

(BTEX compounds), or PAHs were reported in any of the soil samples collected. Grab groundwater samples collected from the location of the former diesel and gasoline USTs did not contain petroleum hydrocarbons or BTEX above laboratory reporting limits. The grab groundwater sample collected from the former fuel oil tank location reportedly contained TPHd at concentrations of 31 mg/l; no gasoline or BTEX compounds were detected in the grab groundwater sample collected from IC-B6 (Geomatrix, 2000).

The RWQCB destroyed monitoring wells MW-2 and MW-3 in June 1995. In November 1996, Geomatrix performed an investigation of soil and groundwater at the site to evaluate potential significant environmental impacts resulting from historical features or features identified during previous investigations and to respond to a request by the RWQCB to perform additional characterization in the vicinity of the former underground fuel oil tank. Twelve borings (SRB20 through SRB31) were drilled and samples were analyzed for TPHd, total petroleum hydrocarbons quantified as motor oil (TPHmo), PAHs, metals, and volatile organic compounds (VOCs). Soil samples collected for analyses of TPHd, PAHs, and metals were composited vertically from each boring; discrete samples subsequently were analyzed if elevated concentrations of constituents were detected. Only discrete samples were analyzed for VOCs. Petroleum hydrocarbons were detected in soil at elevated concentrations in boring SRB20 and SRB21, however the presence of petroleum hydrocarbons at these locations decreased with depth. Specifically, the shallower composite sample from SRB20 contained TPHmo at a concentration of 900 mg/kg. Discrete samples from depths of 4.0 and 6.5 feet contained TPHmo at concentrations of 69 mg/kg and less than 5 mg/kg, respectively. No TPHd was detected in soil samples from boring SRB20. In SRB21, TPHmo was present at a concentration of 510 mg/kg in the shallow composite sample; no TPHmo was detected in deeper, discrete samples from this boring. Shallow composite and deeper discrete soil samples from boring SRB21 contained TPHd, at a maximum concentration of 1,600 mg/kg. The concentration of TPHd in this boring decreased with depth and was not detected in the sample collected from 13.5 feet bgs (Geomatrix, 2000).

PAHs were detected in soil at concentrations below 1996 EPA screening criteria for industrial exposure. Concentrations of PAHs detected at this time are also below current PRGs (USEPA, 1999). For example, the maximum detected concentration of benzo(a)pyrene was 0.026 mg/kg in the discrete sample collected from a depth of 12.5 feet bgs in boring SRB22; the current PRG for benzo(a)pyrene is 0.29 mg/kg. The highest PAH concentration detected was in the discrete soil sample collected from a depth of 7 feet bgs in boring SRB22. In this sample, flourene was detected at a concentration of 0.87 mg/kg; the PRG for flourene is 33,000 mg/kg. Metals concentrations in soil were within expected background concentrations and less than 10 times the soluble threshold limit concentration (STLC)⁴ in all of the soil samples (discrete and composite). Concentrations of metals in soil samples also were below industrial PRGs. No TPHd, TPHmo, or VOCs were detected in groundwater above laboratory reporting limits. The results of the 1996 sampling program indicated no significant environmental issues at the site. However, based on its review of the results of the November 1996 work, the RWQCB requested that additional issues be addressed before case closure would be considered. These items, which are the focus of the work described herein, include additional evaluation of historical features, potential leachability of petroleum hydrocarbons, and groundwater quality at various site locations (Geomatrix, 2000).

In September 2001, five on-site and off-site groundwater monitoring wells were installed to characterize impacts to groundwater at the project site. A majority of wells were installed in the area of the aforementioned Santa Rosa Woolen Mills facility in the northwest portion of the project site. An up-gradient, single-screen monitoring well was installed on the eastern portion of the property in vicinity of the main line railroad tracks.

Extensive investigative activities were performed in 2002 on the northwest area of the project site at the historical location of the Santa Rosa Woolen Mills Facility. Soil samples collected as part of an investigation within this area reported significant concentrations of petroleum hydrocarbons present in soil and groundwater in the area of the fueling structures, the area of the former above ground fuel storage tank (AST), and the location of a former UST. Impacts to soil were identified as being primarily heavy range petroleum hydrocarbons. From June 2002 to November 2002, an additional characterization was performed in the northwestern area and a fenced enclosure at the property. Soil samples collected from these areas indicated significant concentrations of diesel and motor oil in soil. Proposed remedial options included excavation and removal of accessible impacted soil (EBA, 2008b).

In October and November 2003, approximately 6,500 cubic yards of impacted soil were removed from several areas of the project site. The most significant remediation efforts targeted the northwestern portion of the project site where several areas were excavated to remove impacted soil. Source removal activities began in the area of a former wooden UST that is indicated on historic Sanborn maps for the Santa Rosa Woolen Mills facility. During the excavation activities, remnants of the former UST were found and removed, whereupon the excavation was advanced to a total depth of approximately 18 feet bgs. A significant amount of free-phase petroleum hydrocarbon product was encountered on the groundwater surface during the excavation activities. The product and water was subsequently pumped, treated, and disposed of to the sanitary sewer. The excavation in this area, which resulted in the removal of approximately 700 cubic yards of impacted materials, proceeded to within 20 feet of the existing Sixth Street Warehouse and was subsequently terminated due to concerns of structure stability. Confirmation soil samples indicated that impacted materials containing significant concentrations of diesel and motor oil remained in place in the excavation sidewalls and groundwater in this area (EBA, 2008b).

Excavation activities in the northwestern portion of the property also included the removal of a fuel pipeline. The associated trench was enlarged as it encountered impacted materials in an area designated as the main pit excavation area. A total of 350 cubic yards of impacted materials were removed from this area. The excavation pit extended to depths below first encountered groundwater, which was encountered at approximately 19 feet bgs. The maximum depth attained by the excavation was approximately 22 feet bgs. Impacted groundwater encountered within the excavation pit, which included free-phase petroleum hydrocarbon product, was subsequently removed using pumps, treated, and disposed of to the sanitary sewer (EBA, 2008b).

Additional excavation was also performed on the south side of the aforementioned product line trench in the northwestern area. Approximately 325 cubic yards of impacted soil was removed from this area. Approximately 270 cubic yards of impacted soil was excavated and removed in the southwestern side of the project site identified as the "southern warehouse area" (EBA, 2008b).

Quarterly groundwater monitoring performed in the northwestern portion of the project site property and west into the neighboring property parcel indicated low levels of petroleum hydrocarbons in a monitoring well identified as SRMW-13 located in the northwest corner of the property. In addition, the fuel oxygenate methyl tert-butyl ether (MTBE) was detected in SRMW-8 located on the northeast side of the property. The remaining monitoring wells appear to have been relatively free of impacts during the time monitored (EBA, 2008b).

The RWQCB issued a *No Further Action* (NFA) letter for the previous case at the site on August 31, 2007. In 2008, Sonoma Marin Area Rail Transit District (SMART) granted an option to purchase the site, formerly owned by Northwestern Pacific Railroad Authority (NWRPA) to New Railroad Square Associates, LLC for transit-oriented development purposes. In anticipation of property ownership for the site, New Railroad Square Associates, LLC (with consent from SMART) contracted the services of EBA Engineering (EBA) to perform environmental assessment activities. EBA's November 2008 *Comprehensive Report on Findings* concluded that on-site hazardous materials presently exist at various locations on the property. These materials include an underground oil storage tank (UST), heavy hydrocarbon soil and groundwater impacts in the vicinity of soil boring SB-1, and impacted shallow soil across the site. The RWQCB reopened the environmental case for the site on January 16, 2009 based on EBA's findings.

In a letter dated February 4, 2011, the RWQCB directed UPRR to remove the oil UST on the property. In November 2011, United Pumping Services (UPS) removed the UST as directed. However, during the initial day-lighting activities of the oil UST, an additional 500-gallon UST containing oil was discovered adjacent and west of the known tank. UPS evacuated, cleaned, and removed the second UST in conjunction with the known UST. UPS excavated and disposed of approximately 213.03 tons of impacted soil surrounding the USTs, and pumped approximately 500 gallons of oil impacted groundwater from the excavation. Antea Group collected 16 soil samples and one grab groundwater sample from within the excavation. Based on the distribution of MORO, DRO, VOCs, and PAHs, it appears that a release from the removed USTs only affected the immediate soils surrounding the USTs. Sidewall samples NWB and SWB collected at 15 feet bgs reported concentrations of VOCs and PAHs not found in any other (shallower) samples collected. From the available data, soil VOCs and PAHs impacts appear to be the result of impacted groundwater within the capillary fringe, originating from outside of the excavated area, and not due to a release from the USTs at that location.

SENSITIVE RECEPTORS

Geomatrix performed a well survey in 2000. Domestic and industrial water supply for the site vicinity is provided through the City of Santa Rosa, which purchases water from the Sonoma County Water Agency (SCWA). The SCWA delivers water to the City via the Sonoma County aqueduct. The source of the water is the Russian River, which is fed by three main upstream reservoirs. The City of Santa Rosa also has eight standby wells to pump groundwater for emergency purposes; these wells currently are not in use (Geomatrix, 2003).

Information provided by the City of Santa Rosa Utilities Department (SRUD) indicates that 50 groundwater wells are located within a half mile of the site. Of these wells, 21 are located within a half mile generally to the north (hydraulically up- and cross-gradient of the site) and 29 are located within a half mile generally to the south (hydraulically down-gradient of the site). Of the 50 wells, only four are located within a one-quarter mile radius, with two wells located approximately up gradient and two approximately down gradient. Based on conversations with SRUD personnel, only two of the residences located within one-half mile from the site are not connected to the City of Santa Rosa water supply. These residences are located at 654 and 658 Dutton Avenue. Uses for the wells are not tracked by SRUD in all cases, but records indicate that the wells within one-quarter mile of the site are used for irrigation and external use (Geomatrix, 2003).

Information about the possible presence of an additional water producing well located near the site was provided by the RWQCB. This well was not included in the SRUD database. The well is located to the west of the site between the site and Santa Rosa Creek; its actual location has not been field-verified. At this time the well is not in use, and based on a conversation with the site redeveloper, the well will not be used in the future and will be appropriately destroyed (Geomatrix, 2003).

Appendix C

Permits



City of Santa Rosa

April 6, 2012

Yvette Pico
Antea Group
312 Piercy Road
San Jose, CA 94086

REVIEWED BY [Signature]

DATE 4/19/12

RECEIVED

APR 09 2012

SANTA ROSA FIRE DEPT.

Ms. Pico,

Our Department has reviewed the Site Assessment Work Plan (Dated February 29, 2012) for the SMART project located at 2 Fourth Street and 34 Sixth Street. Our Department concurs with the work plan. However, we will need you to initiate our submittal for the soil remediation process so we can assist you in moving forward with this project.

Please contact Judy Tapparo at (707) 543-4547. Mrs. Tapparo can assist you in completing your permit application and plan review applications. During this process, we will be able to quickly review additional required information such as your site safety plan, licenses, permits, subcontractor information and sampling details.

Thank you in advance and please don't hesitate to contact me at (707)543-3531 if you have any questions.

Respectfully,

Tony Gossner
Deputy Fire Chief



City of
Santa Rosa

PERMIT

**Santa Rosa Fire Department
2373 Circadian Way
Santa Rosa, CA 95407**

Date: 04/24/2012

Permit For:

SOIL REMOVAL - 2 4TH ST & SIXTH ST - UNION PACIFIC RAILROAD

U.F.C. Section(s): 1844.105.8.h.1

Permittee: UNITED PUMPING SERVICE INC

PERMIT INFORMATION

Address: 2 4th St SR

Permit No: F12-0170

Total Fees: \$630.00

Approved Date: 04/24/2012

Date Issued: 04/24/2012

Date Expires: 10/21/2012

A permit shall not take the place of any license required by law.

A permit issued under the Fire Code shall continue until revoked or for such a period of time as designated therein at the time of issuance. A permit shall not be transferable and any change in use, occupancy, operation or ownership shall require a new permit.

By: Marita Petersen/jat
Santa Rosa Fire Department

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES.

Required Inspections:

Item: 00854 SOIL REMEDIATION

Item: 00868 OTHER HAZMAT

FIRE
PERMIT #:

City of Santa Rosa Fire Department
Fire & Life Safety Plan Review Division
2373 Circadian Way, Santa Rosa CA 95407
PERMIT APPLICATION & PLAN REVIEW

PHONE: (707) 543-4547
FAX: (707) 543-3520

Date: 4/1/12	Initial Submission: ☒	1 st Resubmittal: ☐	Addl. Resubmittal: ☐
Project Information:	Plans Returned by:	Mail: ☐	Counter Pick-up: ☐
Project Address:			
Project/Tenant Name:			
Applicant Information: Paid Date: Fee Paid: Receipt #:			
Applying for Permit to:			
Company Name:			
Address (Include City & Zip Code):			
Phone Number:		Contact:	
THE PLAN YOU SUBMITTED HAS BEEN:		NOT APPROVED. Please review the attached Plan Review Form and add to and/or modify the plan to correct the noted deficiencies. Changes and/or additions to the original plan shall be clouded and referenced by number on a legend indicating the date of the addition and/or change.	
Date: 4/1/12		Three complete sets of corrected plans shall be re-submitted along with a copy of the Permit Application & Plan Review form. Failure to make the required corrections and/or cloud the additions and/or changes or re-submit the required plans and copies will result in the plans being rejected. Please reference the FP# located in the upper right hand corner when requesting information on the plan submitted. A copy of this application shall be attached to resubmittals.	
Approved by: [Signature]			
The approved plans and Plan Review Form shall be on-site and available for review during inspections. Please schedule inspections with the Area Inspector a minimum of forty-eight hours in advance.			
Inspection approvals must be given prior to use or occupancy of the permitted project or process.			
Please complete if applicable: If fire sprinkler plans, # of sprinkler heads: _____ If fire alarm plans, # of initiating and notification devices: _____ If underground or aboveground tanks involved, # of tanks: _____		I certify that I have read this application and that all the above information whether provided by initial or write-in is true and correct. I agree that I am solely responsible for complying with and that I will comply with all city ordinances and requirements and state laws relating to building construction. I hereby authorize representatives of the City of Santa Rosa to enter upon the above identified property for inspection purposes. I (we) agree to defend, indemnify, and hold the City of Santa Rosa, and its officers, employees, and agents, harmless against all claims, actions, and liabilities of any kind which may arise or accrue in consequence of any acts or omissions of said city and its officers, employees or agents, in granting this permit, whether or not such acts or omissions are intentional or negligent or whether they are active or passive, and to pay all costs and expenses, including, but not limited to, attorney's fees incurred by said city in connection with any such claims and actions. X _____ Signature X _____ Printed Name of Signer	

*PLEASE ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW. THE APPLICANT WILL BE NOTIFIED WHEN THE PLANS ARE READY FOR PICK-UP. THIS IS NOT A PERMIT. A FIRE PERMIT WILL ONLY BE ISSUED UPON COMPLIANCE WITH ALL REQUIREMENTS OF APPLICABLE CODES.



2373 Circadian Way
Santa Rosa, CA 95407
Phone: (707) 543-3500
Fax: (707) 543-3520
www.SantaRosaFD.com

**HAZARDOUS MATERIALS PLAN REVIEW
A CERTIFIED UNIFIED PROGRAM AGENCY
C.U.P.A.**

Project: Union Pacific Railroad
Address: 2 Fourth Street & 24 Sixth Street, Santa Rosa
Type of Review: Soil Remediation
Permit Number: F12-0170
Review Number: 1
Reviewed by: Marita Petersen (mpetersen@srcity.org) – 707-543-3548
Date: April 19, 2012

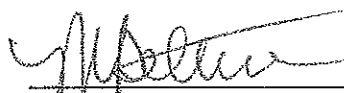
United Pacific Pumping Service, Inc.
Attn: Bob Rico / Pam Heintz
14000 E Valley Boulevard
City of Industry, CA 91746

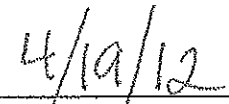
THIS PERMIT HAS BEEN REVIEWED AND DETERMINED TO BE:

(X) APPROVED with comments

NOTE: Please review the comments and make corrections, changes and/or additions as required. Approval of this plan does not approve any omission or deviation from the applicable regulations. Final approval is subject to field inspection. Approved plans shall be on site and available for review at all times.

Item #	Code Section	Comments	Correction
1		The Site Assessment Work Plan prepared for the North Coast Regional Water Quality Control Board, dated February 29, 2012, has been reviewed.	
2		The Site Assessment Work Plan, under "Schedule and Reporting addresses the 'summary report'. A copy of all reports must also be submitted to Santa Rosa Fire Department. Submit test reports to SRFD within 30 days of commencement of field activities.	


Inspector (signature)


Date

COUNTY OF SONOMA — DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
475 Aviation Blvd., Suite 220, Santa Rosa, CA 95403
Phone (707) 565-6565 Fax (707) 565-6525 www.sonoma-county.org

APPLICATION FOR DRILLING PERMIT
for Regional Board Lead/Environmental Assessment / OP Lead

ENVIRONMENTAL
HEALTH DIVISION

For Office Use Only

Amount paid 1833.00
Receipt number 6448
Payment date 4-9-12 Rev. code 1348
Site ID# EA0041705
Permit # SR0010830

Well type: ☐ Monitoring well ☐ Recovery extraction well ☐ Boring ☐ Injection well ☐ Destruct ☐ Environmental assessment
☐ Soil gas survey ☒ Direct push ☐ Air sparging/venting ☐ Remediation well ☐ Other _____

Well depth 20' bgs Boring depth _____

On-site well/boring 21 ID # to be determined (exploratory) # Off-site well/boring _____ ID # _____

Submit legal right-of-entry/off-site well address/encroachment permit

On-site Address 2 Fourth St. & 34 Sixth St. AP# 010-171-004 & 010-166-003

Facility Name Union Pacific Railroad

On-site Owner UPRR Phone (888) 870-8777

Street 9451 Atkinson St. City Roseville State CA Zip 95747

Responsible Party UPRR Phone (888) 870-8777

Street 9451 Atkinson St. City Roseville State CA Zip 95747

Consultant Antea Group Phone (408) 826-1871

Street 312 Piercy Rd City San Jose State CA Zip 95138

License #/Type 548062 state Contractors License

Drilling Contractor Gregg Drilling & Testing, Inc. Phone (925) 313-5800

Street 950 Howe Rd City Martinez State CA Zip 94553

C-57 License # 485165

Type of work: ☐ Initial investigation _____ # Wells ☒ Subsequent investigation 21 # Wells ☐ Destruct _____ # Wells

Groundwater investigation due to: ☐ Underground tank ☐ Surface impoundment ☐ Environmental assessment

☐ Surface disposal practice—specify involved industry _____

☒ Other North Coast RWQCB letter dated 19 Jan 2012

Perforated intervals N/A Chemical constituents separate phase hydrocarbons

Disposal method for soil cuttings 55 gallon drum Disposal method for development water N/A

Drilling method direct push Method of drill equip. rinsate containment 55 gallon drum

If destroying a well, abandonment method N/A

Submit plot plan of wells in relation to all sewer or septic lines.

Is well to be constructed within: 100 feet of a septic tank or leachfield? ☐ Yes ☒ No

50 feet of any sanitary sewer line? ☐ Yes ☐ No

25 feet of any private sanitary sewer line? ☐ Yes ☒ No

In addition, all monitoring wells must include **identification system** affixed to interior surface:

04/09/12

1) Well identification 2) Well type 3) Well depth 4) Well casing diameter 5) Perforated intervals

DEPT. OF HEALTH SVCS

Well identification number and well type shall be **affixed** to the **exterior surface** security structure.

APR 06 2012

ENVIRONMENTAL
HEALTH DIVISION

656855*#
0013480
ENVDRILL 1833.00
TTLAMT 1833.00
CHECKS 1833.00
CHANGE 0.00
6448 #2 10:30

For Office Use Only

Address 2428 St

Site ID# FA0041705

Permit # _____

I hereby agree to comply with all laws and regulations of the County of Sonoma and State of California pertaining to water well construction. I will telephone (707) 565-6565, 48 hours in advance, to notify the Environmental Health Specialist when completing or destroying a well. I will furnish the Director of Health Services and the owner a legible copy of the State Water Well Driller's Report within 15 days; and a copy of the Summary Report, including sample results, should be received by this Department within 90 days in order to obtain final approval on this well permit. I acknowledge that the application will become a permit **only** after site approval and payment of fee. I understand that this permit is not transferable and expires one year from date of issuance.

Signature of Well Driller *[Signature]* Date 3/30/12
 Insurance Carrier Acord AICW01041100 Expiration Date 8/31/12

Once all wells/borings are installed, submit a Well Driller's Log and/or Summary Report to complete permit process.

Indicate on attached plot plan the exact location of well(s) with respect to the following items: property lines, water bodies or water courses drainage pattern, roads, existing wells, sewer main and laterals and private sewage disposal systems or other sources of contamination or pollution. INCLUDE DIMENSIONS. The validity of this permit depends upon the accuracy of the information provided by the applicant.

Conditions of permit:

Please submit a soil boring report
when completed.

FOR OFFICE USE ONLY – ENVIRONMENTAL HEALTH DIVISION

Permit approved by Matt L. Villabaz Date 4.9.12

Constr. approved by _____ Observed? ☐ Yes ☐ No Well # _____ Date ____/____/____

RWQCB / LOP approval _____ Date ____/____/____

Appendix D

Boring Logs



Project No:	UPR8248	Client:	Union Pacific Railroad	Well/ Boring ID: B1
Logged By:	Renee Ransom	Location:	2 Fourth Street and 34 Sixth Street	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	4/13/2012	Location Map See Site Plan
Drilling Method:	Direct Push	Hole Diameter:	3.25"	
Sampling Method:	Acetate Liners	Hole Depth:	20'	
Casing Type:	PVC-Pre-packed well screens	Well Diameter:	0.75"	
Slot Size:	0.010	Well Depth:	20' (temporary)	
Gravel Pack:	20/40	Screened Interval:	15'-20' (temporary)	

		Elevation			Northing			Easting	
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Collected	Recovery	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Concrete Cement Grout	moist	7.5	Hand auger to 5 ft	1			OH	Topsoil to 6"
					2			CL	Organic Clay (OH) - Dark brown, high plasticity, malleable, organics, 5% fine to coarse grained gravel, 95% fines
					3				
					4				Lean Clay (CH), dark brown, 5% fine to coarse gravel, 95% fines, medium firm, medium plasticity.
					5				- As above, brown mottling
		moist	4.5	Direct Push to 20 ft	6				
					7				
					8				
					9			SM	Silty Sand (SM) - Brown, 60% sand, 40% fines, medium grained sand, poorly graded, medium firm
					10				
		moist	5.5		11			ML	Silt (ML) - Brown, medium firm, low plasticity, dark brown mottling
					12				- As above, wet @ 12'
		wet moist	16.2		13			CL	Sandy Lean Clay with gravel (CL) - Gray-black, 20% fine to coarse grained gravel, 20% fine to coarse grained sand, 60% fines, black staining
		14					SW	@ 14'-14'4" - Gravelly Sand (SW) - Black-gray, fine to coarse grained sand and gravel, well graded, 45%	
		wet moist	216		15			CL	gravel, 55% sand, trace fines, medium plastic, malleable, Sandy Lean Clay with Gravel (CL) (as above)
					16			GM	Sandy Gravel with silt (GM) - Black-gray, fine to coarse grained sand and gravel, well-graded, 40% gravel, 30% sand, 30% fines
		wet	27.6		17				
					18			CL	Lean Clay (CL) - Brown-gray, medium plasticity, firm
					19				
					20				
					21				
					22				

PROFESSIONAL GEOLOGIST

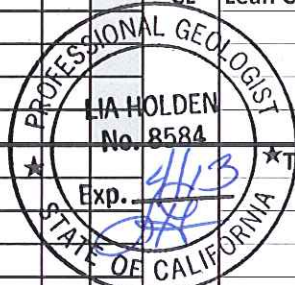
LIA HOLDEN

No. 8584

Exp. 4/13

STATE OF CALIFORNIA

Total depth of boring = 20.0' below ground surface.



★ Total depth of boring = 20.0' below ground surface.



Project No:	UPR8248	Client:	Union Pacific Railroad	Well/ Boring ID: B2
Logged By:	Renee Ransom	Location:	2 Fourth Street and 34 Sixth Street	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	4/13/2012	Location Map See Site Plan
Drilling Method:	Direct Push	Hole Diameter:	3.25"	
Sampling Method:	Acetate Liners	Hole Depth:	20'	
Casing Type:	PVC-Pre-packed well screens	Well Diameter:	0.75"	
Slot Size:	0.010	Well Depth:	15' (temporary)	
Gravel Pack:	20/40	Screened Interval:	10'-15' (temporary)	

		Elevation			Northing			Easting	
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Collected	Recovery	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Concrete Cement Grout		moist	5.0	Hand auger to 5 ft	1			OH	Topsoil to 7"
					2			CL	@7" - Organic Clay (OH) - Dark brown,high plasticity, malleable 10% coarse grained gravel, 90% fines, organics
					3				
					4				
					5				
		moist	5.6	Direct Push to 20 ft	6			SM	Silty Sand (SM) - Orange-brown, malleable, fine to coarse grained sand, well-graded, 70% sand, 30% fines
		moist	4.2		7			ML	Sandy Silt (ML) - Dark brown, stiff, low plasticity, 40% sand, 60% fines
					8				
					9				
					10				
					11				
					12			SM	Silty Sand with Gravel (SM) - Gray, malleable, fine to medium grained sand, well graded, 15% fine to coarse grained gravel, 65% sand, 20% fines
		moist	406		13				
					14			SW	Gravelly Sand with Silt (SW) - Brown, malleable, fine to coarse grained sand and gravel, 40% gravel, 40% sand, 20% fines, odor, black staining
		wet	229		15				
					16				No Recovery
			308		17				
					18				
					19				
					20				
				21					
				22					

PROFESSIONAL GEOLOGIST

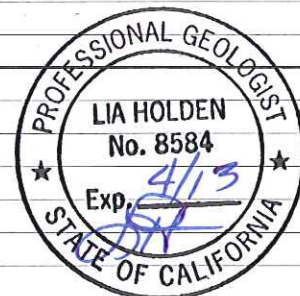
LIA HOLDEN

No. 8584

Exp. 4/13

STATE OF CALIFORNIA

Total depth of boring = 20.0' below ground surface.





Project No:	UPR8248	Client:	Union Pacific Railroad	Well/ Boring ID: B3
Logged By:	Renee Ransom	Location:	2 Fourth Street and 34 Sixth Street	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	4/13/2012	Location Map See Site Plan
Drilling Method:	Direct Push	Hole Diameter:	3.25"	
Sampling Method:	Acetate Liners	Hole Depth:	20'	
Casing Type:	PVC-Pre-packed well screens	Well Diameter:	0.75"	
Slot Size:	0.010	Well Depth:	20' (temporary)	
Gravel Pack:	20/40	Screened Interval:	15'-20' (temporary)	

		Elevation			Northing			Easting		
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Collected	Recovery			
Backfill Concrete Cement Grout		moist		Hand auger to 5 ft	1			OH	Topsoil to 7"	
			4.1		2				Gravelly Organic Clay (OH)- Dark brown, high plasticity, malleable, organics, 30% fine gravel, 70% fines	
		moist			3				ML	Sandy Silt with Gravel (ML) - Dark brown, light brown mottling, low plasticity, medium firm, 20% fine to coarse gravel, 20% fine to coarse grained sand, 60% fines
			3.2		4					
					5					- As above, color change to brown
				7.4	Direct Push to 20 ft	6				
						7				
				5.8		8				
						9				
				4.6		10			ML	Silt (ML) - Orange-brown, low plasticity, medium firm, 5% fine gravel, 95% fines
			moist			11				
				5.4		12			SM	Silty Sand with Gravel (SM)- Brown, wet, fine to coarse grained sand and gravel, well graded, 50% sand, 25% gravel, 25% fines, unconsolidated
			wet	3.2		13				
				1.9		14				
						15				
				1.8		16			SM	Silty Sand (SM), Brown, 5% gravel, 60% sand, 25% fines, fine to coarse sand and gravel, well graded, unconsolidated
			wet			17			GW-GM	Sandy Gravel with Silt (GM) - Brown, malleable, fine to coarse grained sand and gravel, well graded, 40% gravel, 40% sand, 20% fines
			wet			18			CL	Lean Clay (CL) - Light brown, medium plastic, medium firm, 100% fines
			wet			19			SW	Sand (SW)- Brown, unconsolidated, fine to coarse grained, well graded
						20			ML	Silt (ML) - Brown, low plasticity, medium firm
									Total depth of boring = 20.0' below ground surface.	
						21				
					22					

PROFESSIONAL GEOLOGIST

LIA HOLDEN

No. 8584

Exp. 12/31/2023

STATE OF CALIFORNIA





Project No: UPR8248	Client: Union Pacific Railroad	Well/ Boring ID: B4
Logged By: Renee Ransom	Location: 2 Fourth Street and 34 Sixth Street	Page 1 of 1
Driller: Gregg Drilling	Date Drilled: 4/13/2012	Location Map See Site Plan
Drilling Method: Direct Push	Hole Diameter: 3.25"	
Sampling Method: Acetate Liners	Hole Depth: 20'	
Casing Type: PVC-Pre-packed well screens	Well Diameter: 0.75"	
Slot Size: 0.010	Well Depth: 20' (temporary)	
Gravel Pack: 20/40	Screened Interval: 15'-20' (temporary)	

		Elevation			Northing			Easting								
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Collected	Recovery	Soil Type	LITHOLOGY / DESCRIPTION							
Backfill	Concrete Cement Grout	moist	2.4	Hand auger to 5 ft	1			OH	Topsoil to 9"							
					2				@9" Organic Clay (OH) - Dark brown, medium plasticity, malleable, organics, 5% fine to coarse grained gravel, 95% fines							
					3				CL	Gravelly Lean Clay with Sand (CL) - Dark brown, malleable, medium plasticity, fine to coarse grained sand and gravel, 25% gravel, 20% sand, 55% fines						
					4											
					5				ML	Sandy Silt with Gravel (ML) - Dark brown, orange mottling, indurated, 15% fine to medium grained gravel, 25% fine to coarse grained sand, 60% fines						
				6												
				Direct Push to 20 ft	7			CL	Sandy Clay with Gravel (CL) - Light brown, medium indurated, medium plastic, 10% fine grained gravel, 10% fine grained sand, 80% fines							
					8											
					9											
					10			CL	- As above, but color change to gray, odor							
					11											
					12											
					13											
					moist	14			CL	Lean Clay (CL) - Brown, gray mottling, high plasticity, indurated						
						15										
						16										
						17										
						18										
				19												
				20												
				wet	4.5							SW-SM	Gravelly Sand with Silt (SW-SM) - Brown, malleable, fine to coarse grained sand and gravel, well graded, 40% gravel, 40% sand, 20% fines			
									Total depth of boring = 20.0' below ground surface.							

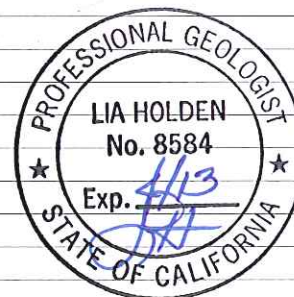
PROFESSIONAL GEOLOGIST

LIA HOLDEN

No. 8584

Exp. 4/13

STATE OF CALIFORNIA





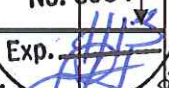
Project No:	UPR8248	Client:	Union Pacific Railroad	Well/ Boring ID: B5
Logged By:	Renee Ransom	Location:	2 Fourth Street and 34 Sixth Street	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	4/13/2012	Location Map See Site Plan
Drilling Method:	Direct Push	Hole Diameter:	3.25"	
Sampling Method:	Acetate Liners	Hole Depth:	20'	
Casing Type:	PVC-Pre-packed well screens	Well Diameter:	0.75" (temporary)	
Slot Size:	0.010	Well Depth:	20' (temporary)	
Gravel Pack:	20/40	Screened Interval:	15'-20' (temporary)	

		Elevation		Northing		Easting				
Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Collected	Recovery	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill										
	Concrete	moist		Hand auger to 5 ft	1			OH	Topsoil to 6"	
			1.9		2			CL	Organic Clay (OH) - Dark brown, malleable, medium plastic, organics	
	Cement Grout				3					Lean Clay (CL) - Dark brown, medium indurate, medium plastic
			4.6		4					
					5					
		moist		Direct Push to 20 ft	6			SM	Silty Sand with Gravel (SM) - Brown, 20% gravel, 60% sand, 20% fines, fine to coarse grained sand and gravel, well graded, low plasticity, indurated	
			3.5		7					
			3.7		8				No Recovery	
					9					
					10					
		moist			11			GW	Sandy Gravel (GW) - Light brown, 65% gravel, 35% sand, unconsolidated, fine to coarse grained sand and gravel, well graded,	
		moist			12			CL	Lean Clay (CL) - Brown-orange, malleable, medium plasticity	
			2.8		13					
					14					- As above, but color change to gray-brown, 10% medium grained sand
			1.9		15			ML	Sandy Silt (ML) - Brown, 40% very fine sand, 60% fines, low plasticity, malleable.	
			4.0		16					
		wet			17			SM	Silty Sand with clay (SM) - Brown, wet, dense, fine to coarse grained sand and gravel, well-graded, 55% sand, 20% fines, 25% gravel	
					18			CL	Lean Clay (CL) - Brown w/orange mottling, medium plasticity, malleable	
					19			CL	Sandy Lean Clay with gravel (CL) - Brown, 30% sand, 15% gravel, 55% fines, indurated	
					20			CL	@18' 4" - Lean Clay (CL) - Brown w/orange mottling, malleable medium plasticity	
				21						
				22						
									Total depth of boring = 20.0' below ground surface.	

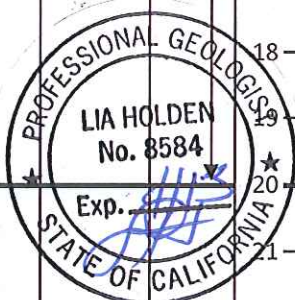
PROFESSIONAL GEOLOGIST

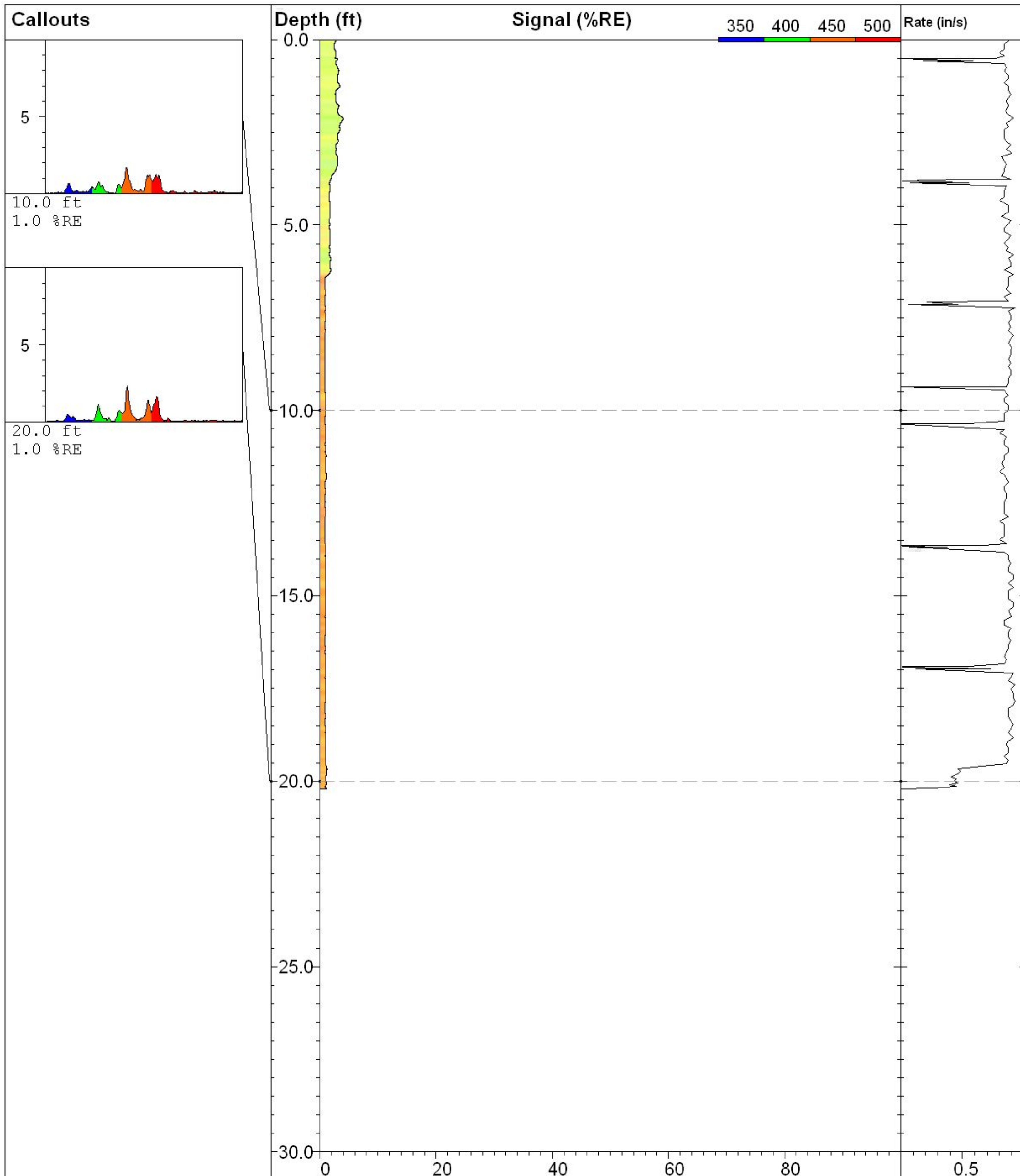
LIA HOLDEN

No. 8584

Exp. 

STATE OF CALIFORNIA





www.greggdrilling.com

B6

Site:
2 Fourth St. & 34 Sixth St.

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

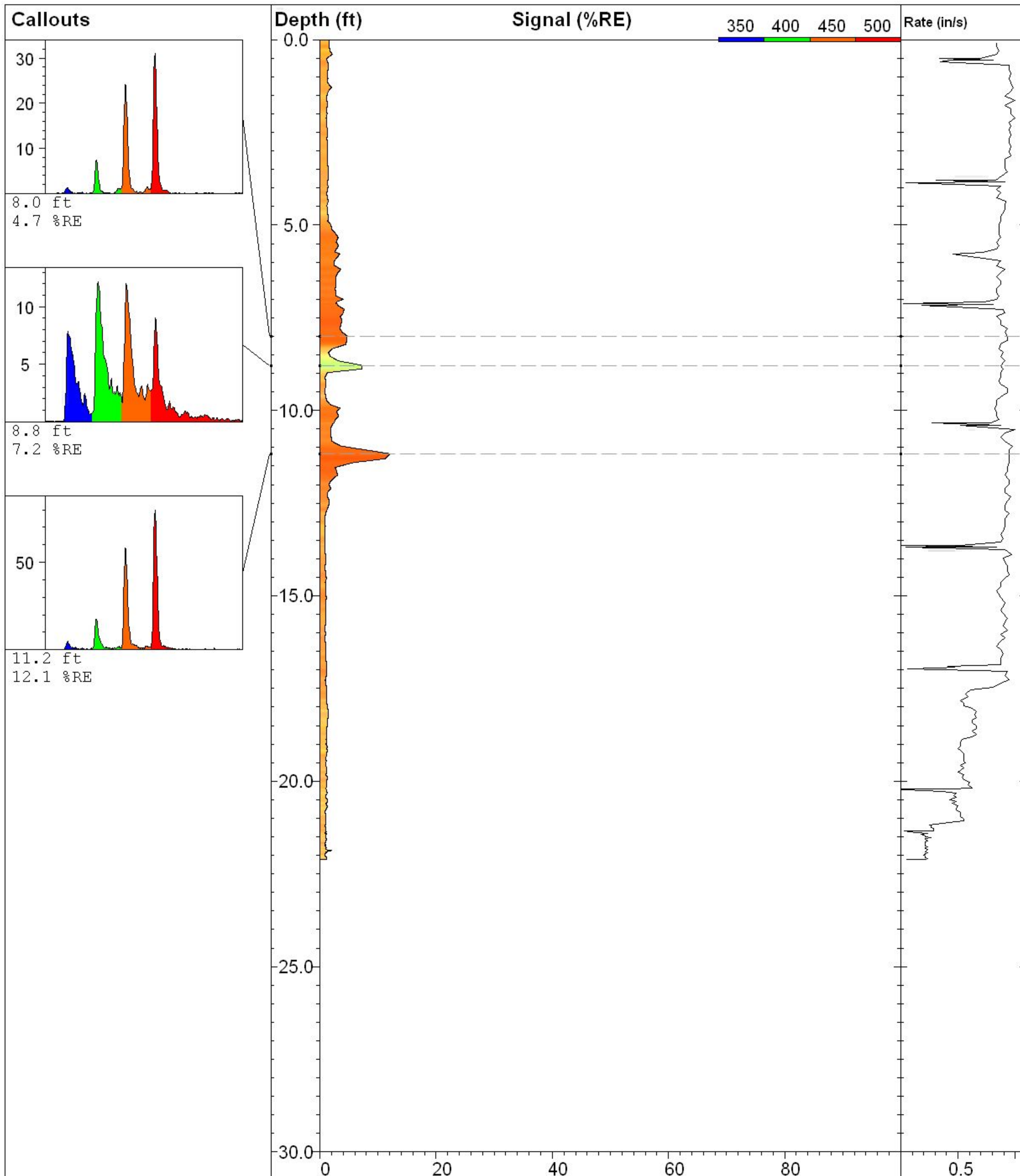
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
20.20 ft

Max signal:
4.1 % @ 2.12 ft

Date & Time:
2012-04-24 10:45 PDT



www.greggdrilling.com

B7

Site:
2 Fourth St. & 34 Sixth St.

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

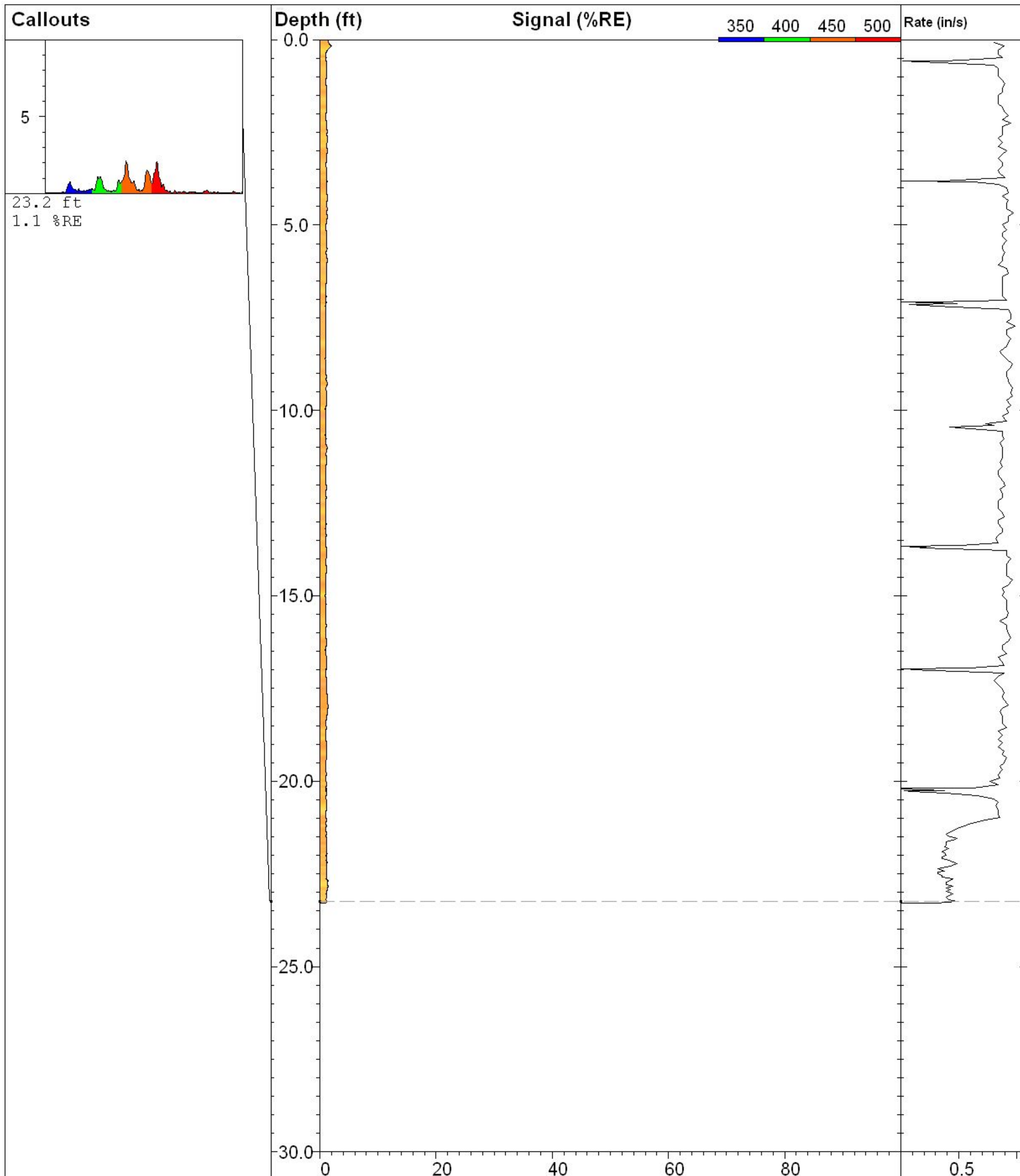
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
22.11 ft

Max signal:
12.1 % @ 11.17 ft

Date & Time:
2012-04-24 13:07 PDT



www.greggdrilling.com

B8

Site:
2 Fourth St. & 34 Sixth St.

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

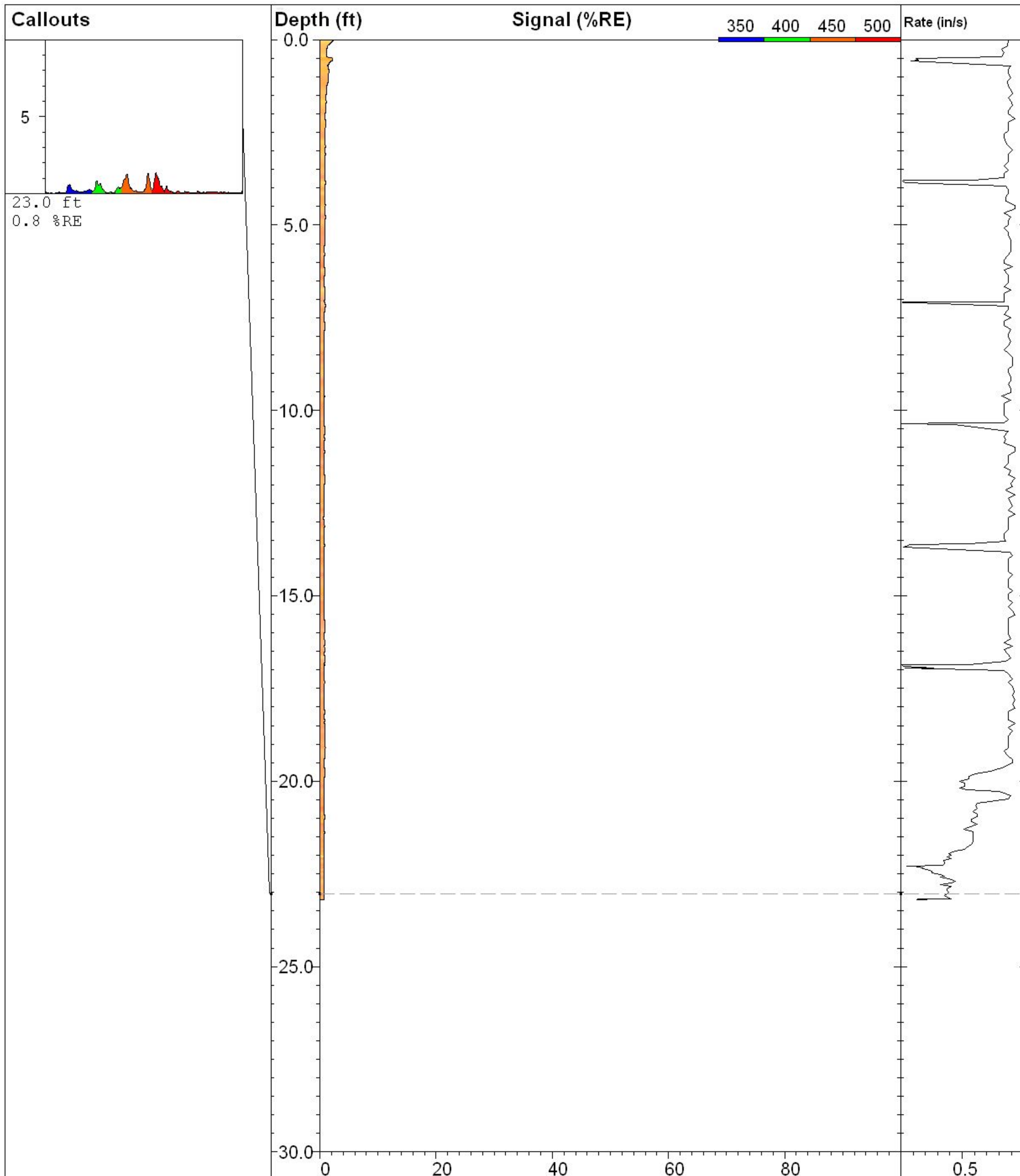
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
23.28 ft

Max signal:
2.0 % @ 0.17 ft

Date & Time:
2012-04-24 15:06 PDT



www.greggdrilling.com

B9

Site:
2 Fouth St. & 34 Sixth St

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

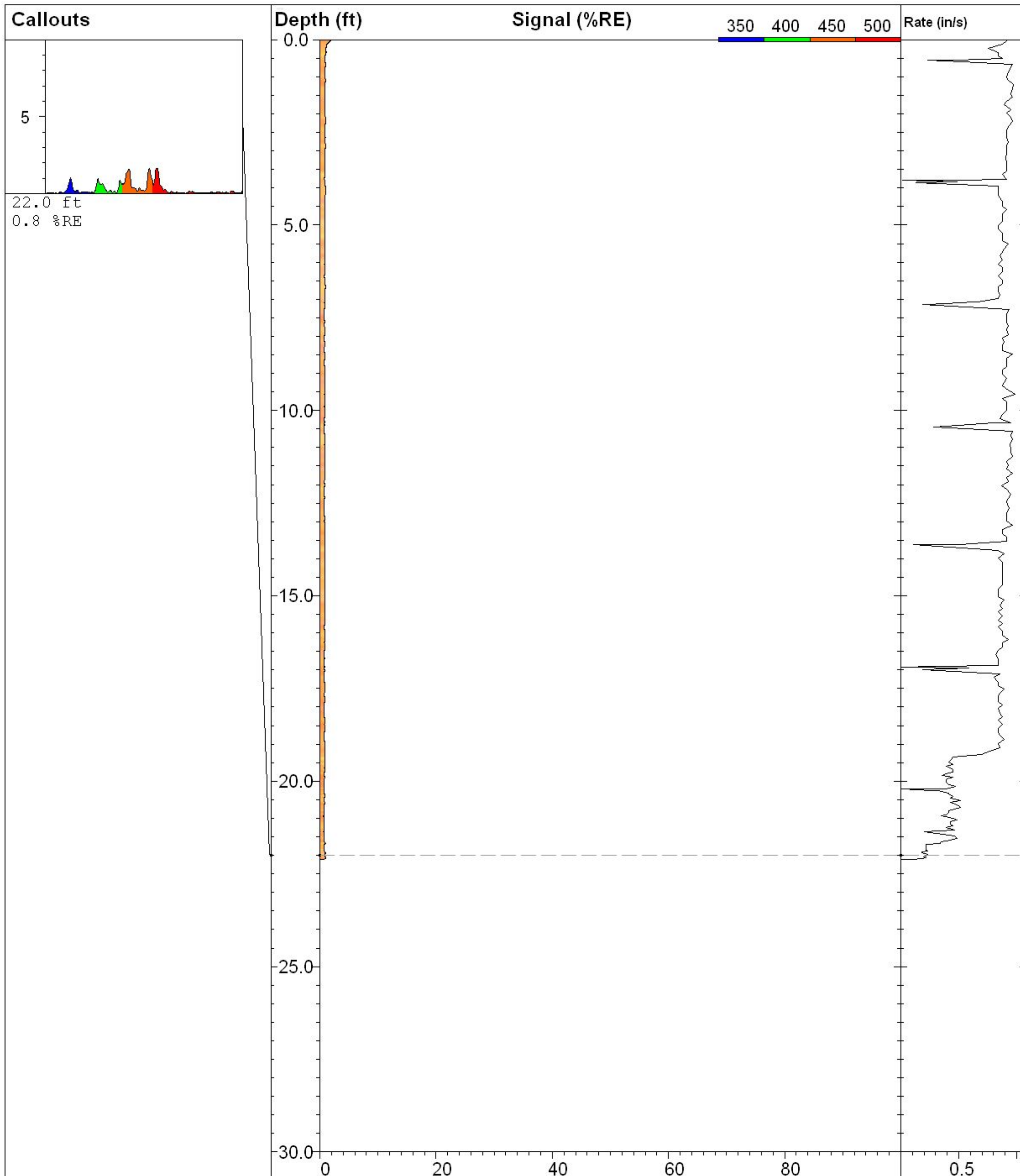
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
23.20 ft

Max signal:
2.3 % @ 0.04 ft

Date & Time:
2012-04-25 07:53 PDT



www.greggdrilling.com

B10

Site:
2 Fouth St. & 34 Sixth St

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

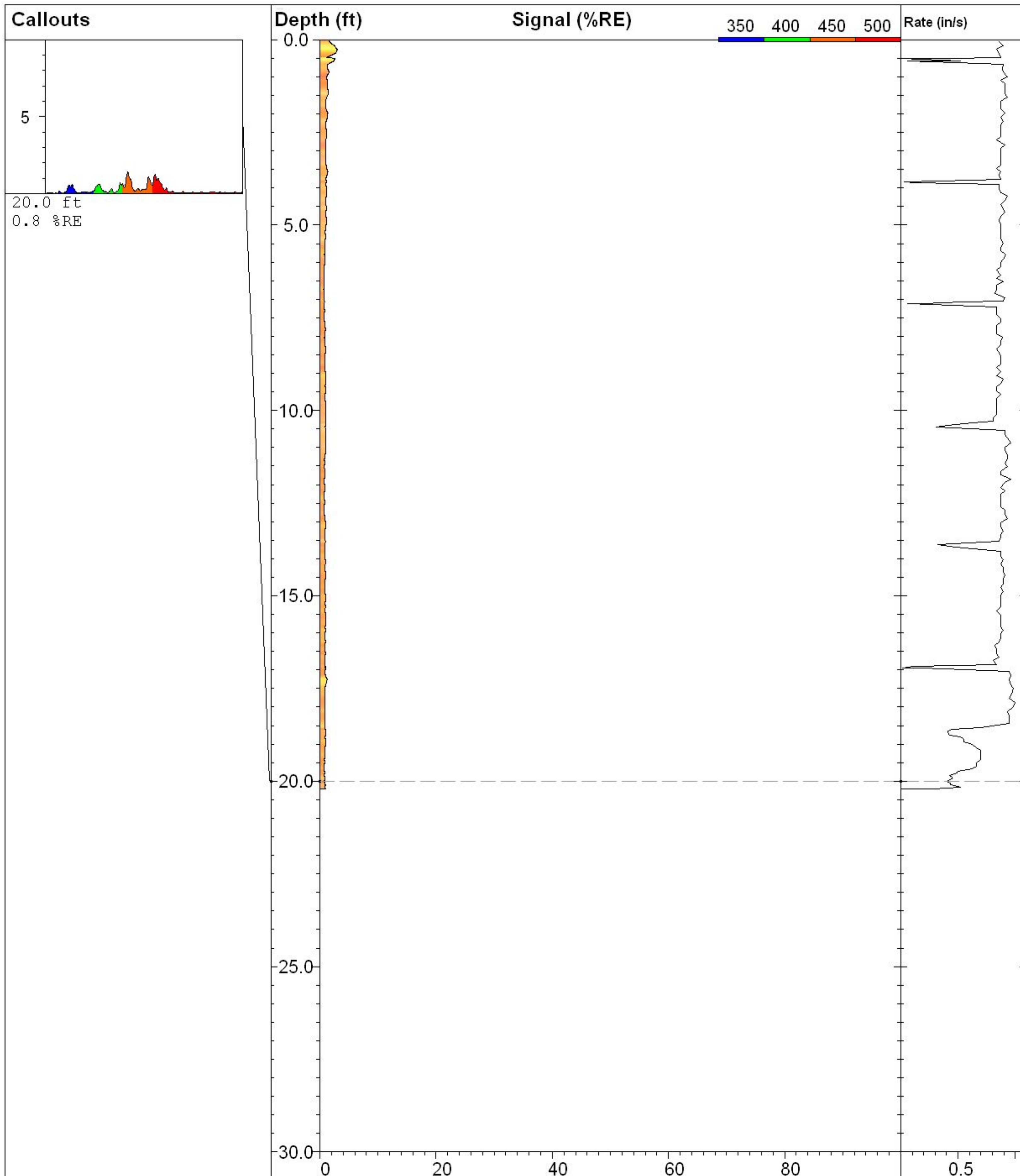
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
22.11 ft

Max signal:
1.9 % @ 0.03 ft

Date & Time:
2012-04-25 09:38 PDT



www.greggdrilling.com

B11

Site:
2 Fouth St. & 34 Sixth St

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

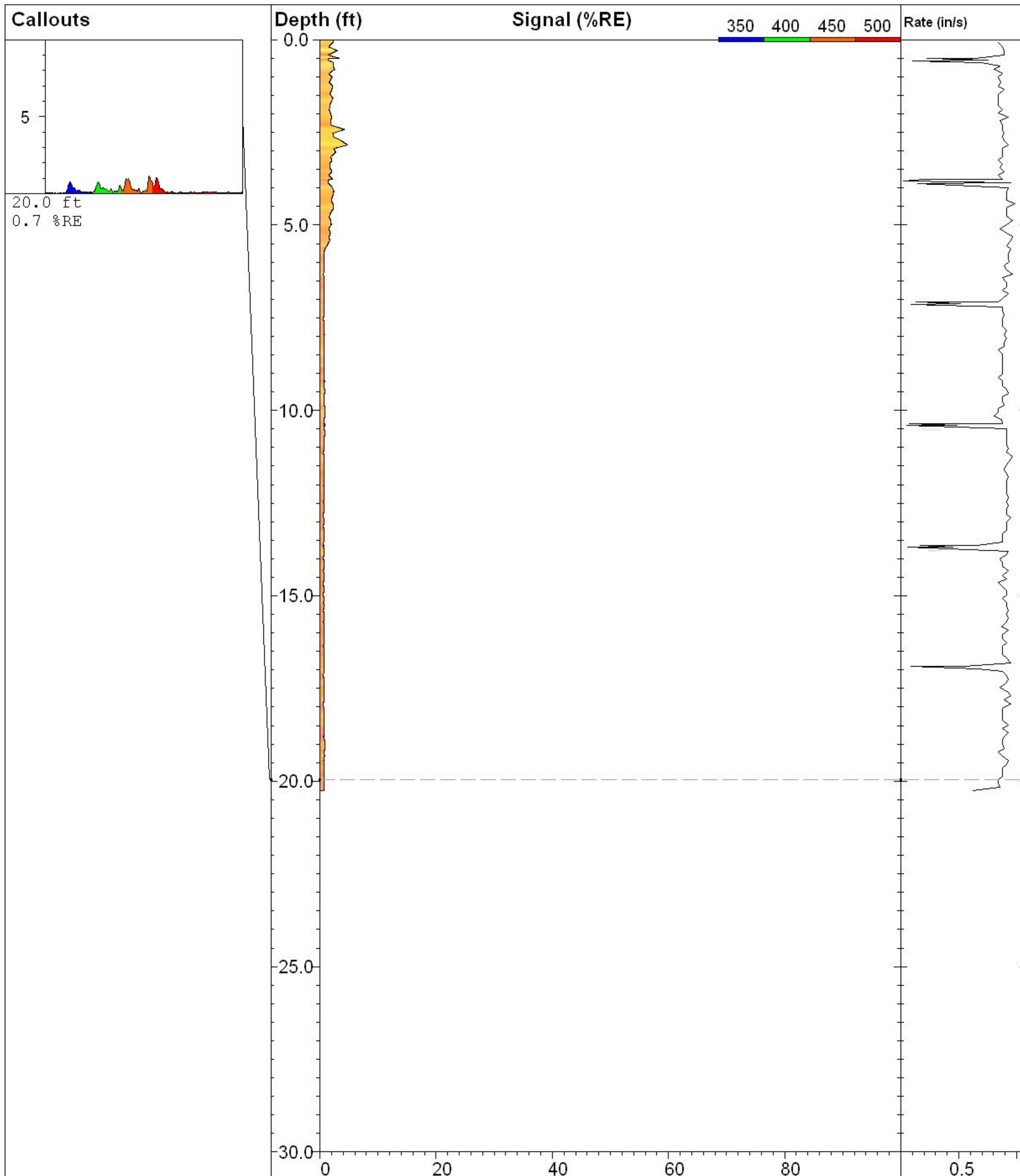
UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
20.21 ft

Max signal:
3.0 % @ 0.27 ft

Date & Time:
2012-04-25 12:30 PDT



www.greggdrilling.com

B12

Site:
2 Fouth St. & 34 Sixth St

Client:
Antea

Job:
12-058MA

Latitude / Datum:
Unavailable / NA

Longitude / Fix:
Unavailable / NA

Operator/Unit:
D. Tidwell/UVOST1009

UVOST By Dakota

www.DakotaTechnologies.com

Final depth:
20.26 ft

Max signal:
4.8 % @ 2.84 ft

Date & Time:
2012-04-25 14:31 PDT



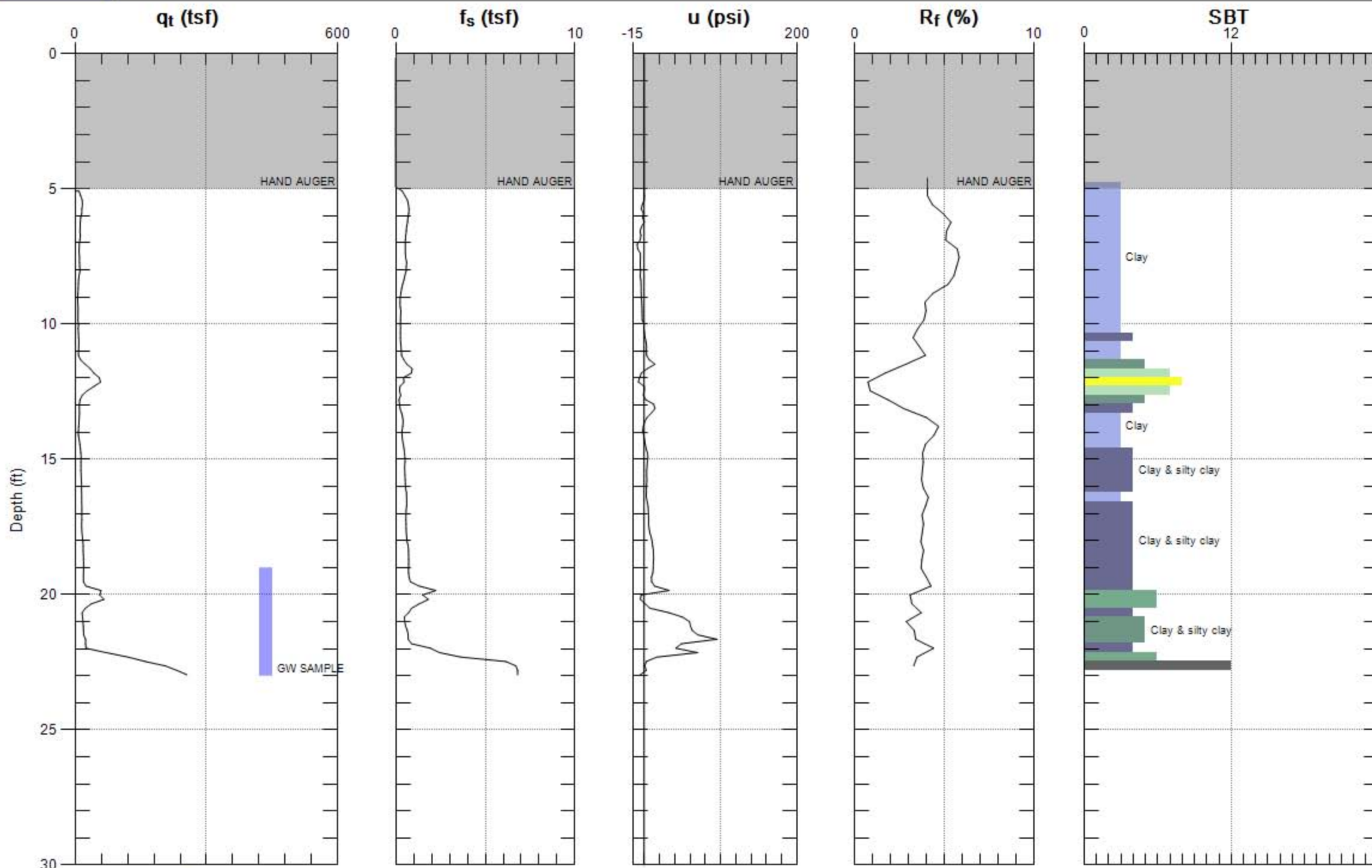
ANTEA GROUP

Site: VPR8248

Sounding: B6

Engineer: L.HOLDEN

Date: 4/24/2012 10:40



Max. Depth: 22.966 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



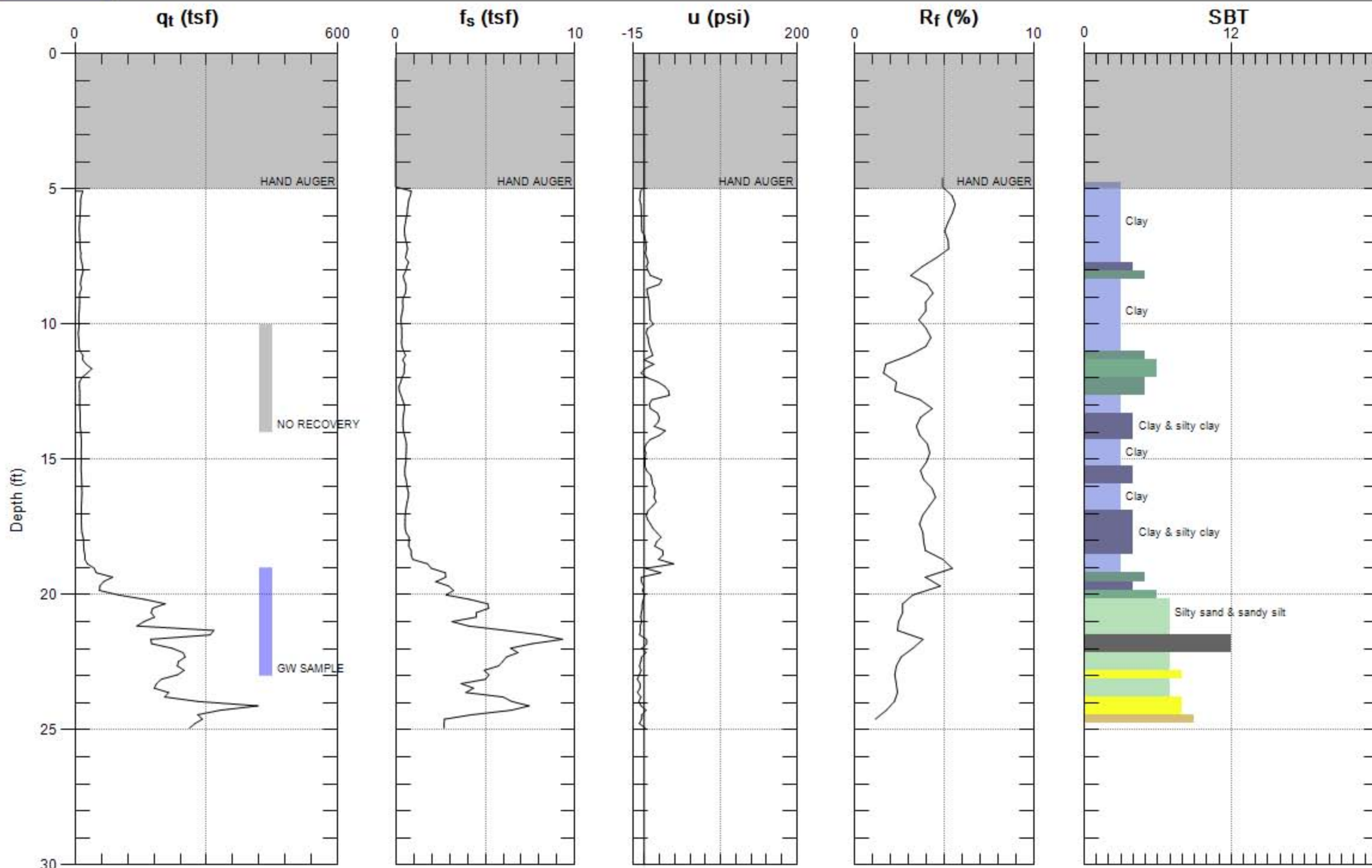
ANTEA GROUP

Site: VPR8248

Sounding: B7

Engineer: L.HOLDEN

Date: 4/24/2012 01:03



Max. Depth: 24.934 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



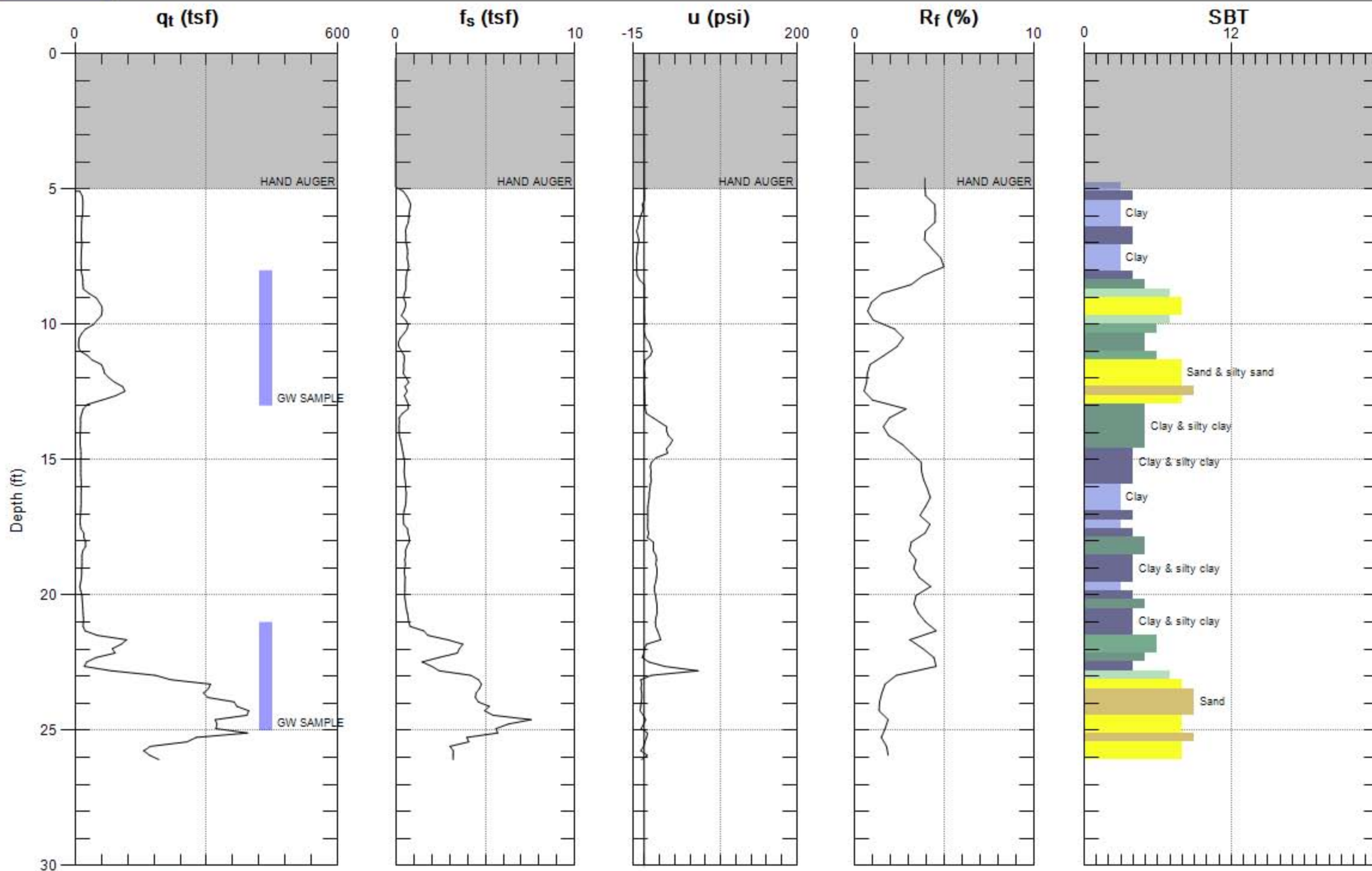
ANTEA GROUP

Site: VPR8248

Sounding: B8

Engineer: L.HOLDEN

Date: 4/24/2012 02:54



Max. Depth: 26.083 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



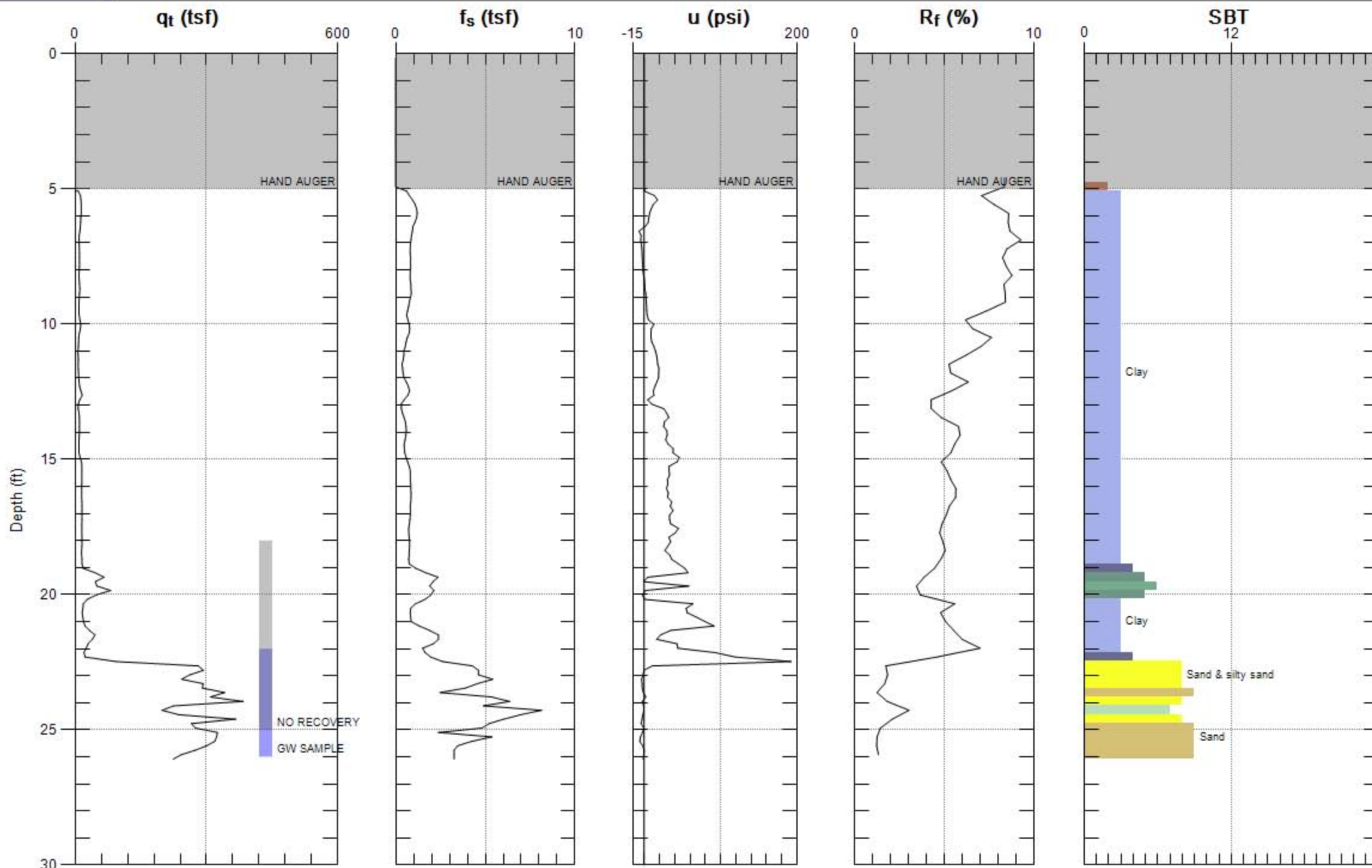
ANTEA GROUP

Site: VPR8248

Sounding: B9

Engineer: L.HOLDEN

Date: 4/25/2012 07:35



Max. Depth: 26.083 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



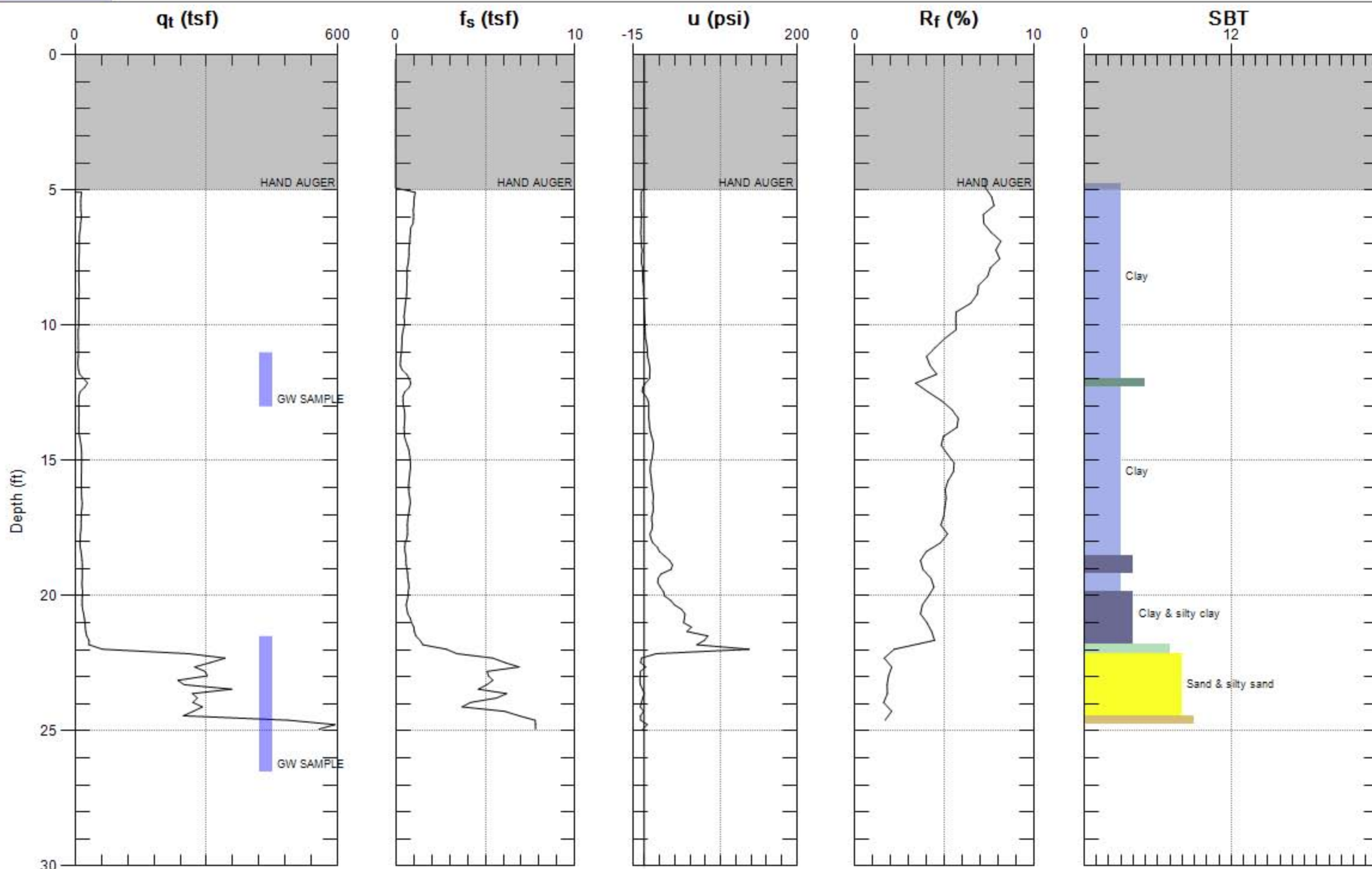
ANTEA GROUP

Site: VPR8248

Sounding: B10

Engineer: L.HOLDEN

Date: 4/25/2012 09:31



Max. Depth: 24.934 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



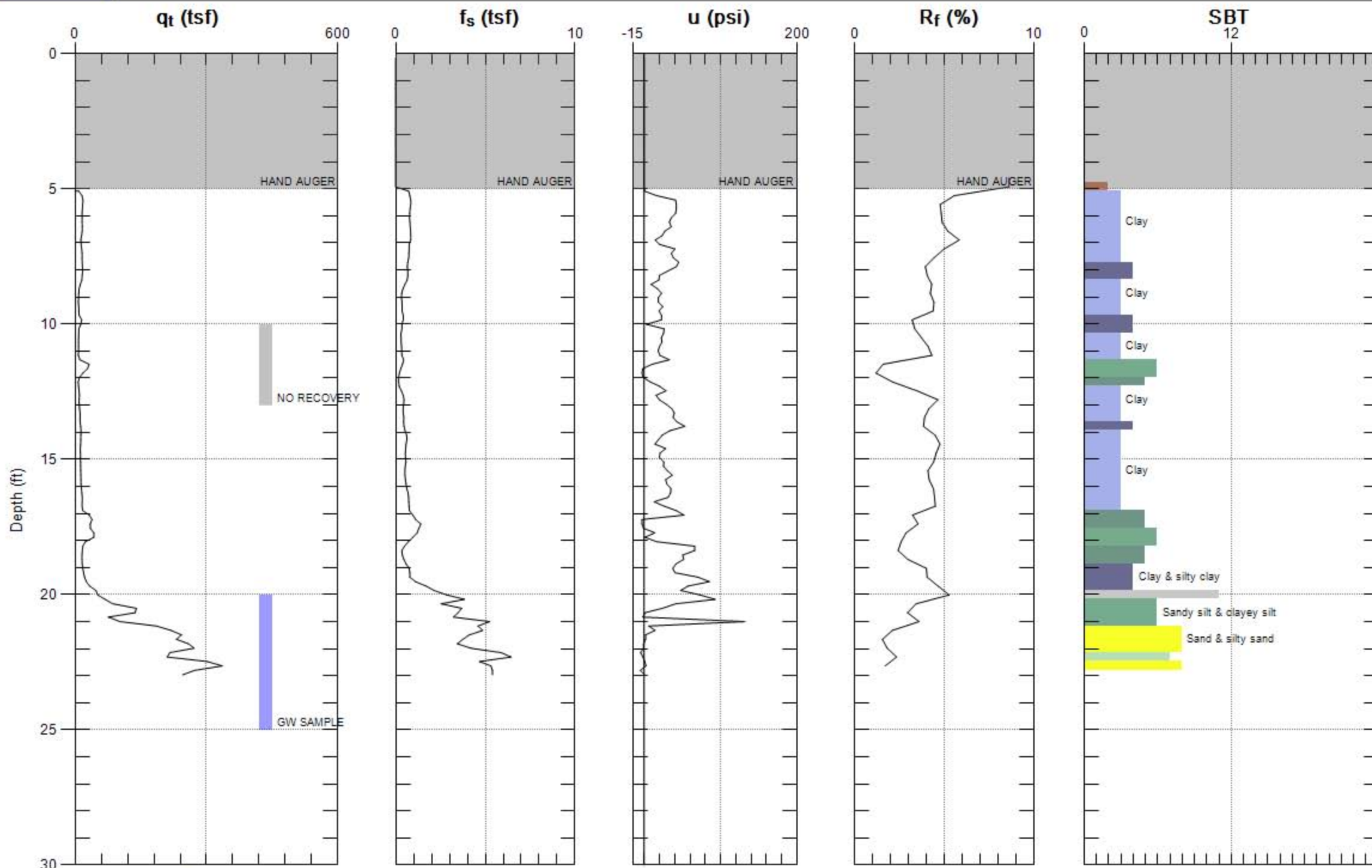
ANTEA GROUP

Site: VPR8248

Sounding: B11

Engineer: L.HOLDEN

Date: 4/25/2012 12:19





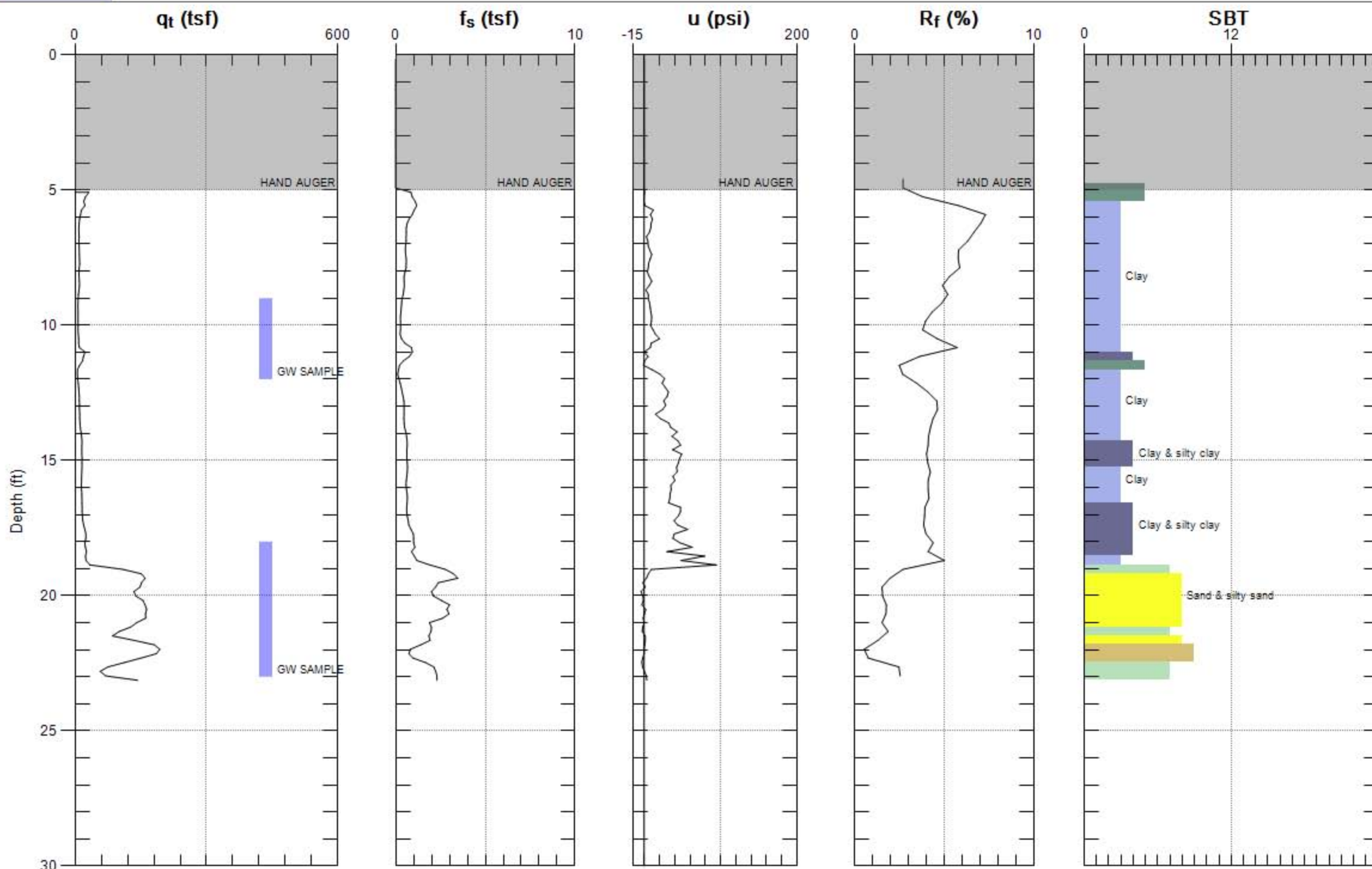
ANTEA GROUP

Site: VPR8248

Sounding: B12

Engineer: L.HOLDEN

Date: 4/25/2012 02:27



Max. Depth: 23.130 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Appendix E

Certified Laboratory Analytical Reports – Soil Borings and Excavation



**CONESTOGA-ROVERS
& ASSOCIATES**

20818 44th Avenue West, Suite 190
Lynnwood, WA 98036
Telephone: (425) 563-6515 Fax: (425) 563-6599
www.CRAworld.com

MEMORANDUM

TO: Lia Holden REF. NO.: 058324-2344

FROM: Jeffrey Cloud/bjw/302-NF *JL/lyn* DATE: September 7, 2012

C.C.: Renee Ransom, Jesse Orth, Julie Lidstone E-Mail and Hard Copy if Requested

RE: Data Quality Assessment and Validation of Reports J43205, J43207,
J43229, J43231, J43270 & J43300
Site Assessment
2 Fourth Street and 34 Sixth Street
Santa Rosa, California
July 2012

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the July 2012, collection of soil and water samples in Santa Rosa, California. Samples were submitted to Test America Laboratories (TA), in Pleasanton, California, and analyzed for the following:

<i>Parameter</i>	<i>Methodology</i>
Volatile Organic Compounds (VOCs)	SW846 8260B
Gasoline Range Organics (GRO)	CA LUFT GC/MS
Semi-Volatile Organic Compounds (SVOCs)	SW846 8270C SIM
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	SW846 8015B
Metals	SW846 6010B

The analytical results are summarized in Tables 1A and 1B. The QC criteria used to assess the data were established by the methods and with the following guidance documents:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review",
USEPA 540/R-99/008, October 1999
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review",
USEPA 540/R-94/013, February 1994

These guidelines are collectively referred to as "Guidelines" in this memorandum.

SAMPLE QUANTITATION

The laboratory did not report any detected concentrations below the laboratory's practical quantitation limit (PQL)/report limit (RL).

SAMPLE PRESERVATION AND HOLDING TIMES

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled after collection.

METHOD BLANK SAMPLES

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method blanks were analyzed at the recommended frequency and all results were non-detect for the compounds of interest.

SURROGATE COMPOUNDS – ORGANIC ANALYSES

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses with a few exceptions. Several sample results were qualified as estimated (See Table 2).

LABORATORY CONTROL SAMPLE (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits.

Laboratory control samples (LCS) were analyzed in duplicate for all parameters. All recoveries were within required control limits showing adequate analytical accuracy and precision.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent for water samples and 30 percent for soil samples.

Matrix spikes (MS) were prepared and analyzed in duplicate for DRO/ORO and metals. All recoveries were within required control limits showing adequate analytical accuracy and precision. Precision, for VOCs, GRO and SVOCs, was determined to be acceptable based on LCS/LCSD recoveries.

FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

No field QA/QC samples were submitted to the laboratory for analysis.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	<i>Base 1</i>	<i>Base 2</i>	<i>Base 4</i>	<i>Composite</i>
	<i>Sample ID:</i>	SO-2344-BASE1-100712	SO-2344-BASE2-100712	SO-2344-BASE4-110712	SO-2344-COMP1-100712
	<i>Sample Date:</i>	7/10/2012	7/10/2012	7/11/2012	7/10/2012
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
Benzene	µg/kg	-	-	-	<4.6
Ethylbenzene	µg/kg	-	-	-	<4.6
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	<4.6
Tetrachloroethene	µg/kg	-	-	-	<4.6
Toluene	µg/kg	-	-	-	<4.6
Trichloroethene	µg/kg	-	-	-	<4.6
Xylenes (total)	µg/kg	-	-	-	<9.1
<i>Semi-volatile Organic Compounds - SIM</i>					
Acenaphthene	µg/kg	<5.0	<4.9	<5.0	<49
Acenaphthylene	µg/kg	<5.0	<4.9	<5.0	<49
Anthracene	µg/kg	<5.0	<4.9	<5.0	<49
Benzo(a)anthracene	µg/kg	<5.0	<4.9	<5.0	<49
Benzo(a)pyrene	µg/kg	<5.0	<4.9	<5.0	<49
Benzo(b)fluoranthene	µg/kg	<5.0	<4.9	<5.0	<49
Benzo(g,h,i)perylene	µg/kg	<5.0	<4.9	<5.0	<49
Benzo(k)fluoranthene	µg/kg	<5.0	<4.9	<5.0	<49
Chrysene	µg/kg	<5.0	<4.9	<5.0	<49
Dibenz(a,h)anthracene	µg/kg	<5.0	<4.9	<5.0	<49
Fluoranthene	µg/kg	<5.0	<4.9	<5.0	<49
Fluorene	µg/kg	<5.0	<4.9	<5.0	<49
Indeno(1,2,3-cd)pyrene	µg/kg	<5.0	<4.9	<5.0	<49
Naphthalene	µg/kg	<5.0	<4.9	<5.0	<49
Phenanthrene	µg/kg	<5.0	<4.9	<5.0	<49
Pyrene	µg/kg	<5.0	8.2	<5.0	<49

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

Sample Location:		Base 1	Base 2	Base 4	Composite
Sample ID:		SO-2344-BASE1-100712	SO-2344-BASE2-100712	SO-2344-BASE4-110712	SO-2344-COMP1-100712
Sample Date:		7/10/2012	7/10/2012	7/11/2012	7/10/2012
Parameters	Units				
Metals					
Cadmium	mg/kg	-	-	-	<0.50
Chromium	mg/kg	-	-	-	120
Lead	mg/kg	-	-	-	8.0
Nickel	mg/kg	-	-	-	140
Zinc	mg/kg	-	-	-	56
Metals - STLC					
Cadmium	mg/L	-	-	-	<0.050
Chromium	mg/L	-	-	-	0.29
Lead	mg/L	-	-	-	<0.13
Nickel	mg/L	-	-	-	2.3
Zinc	mg/L	-	-	-	<0.50
Petroleum Products					
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/kg	-	-	-	<230
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	40	170	<0.99	44
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	63	180	<50	84

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	<i>Composite</i>	<i>Composite</i>	<i>ESW1</i>	<i>ESW2</i>
	<i>Sample ID:</i>	<i>SO-2344-COMP2-100712</i>	<i>SO-2344-COMP3-110712</i>	<i>SO-2344-ESW1-110712</i>	<i>SO-2344-ESW2-110712</i>
	<i>Sample Date:</i>	<i>7/10/2012</i>	<i>7/11/2012</i>	<i>7/11/2012</i>	<i>7/11/2012</i>
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
Benzene	µg/kg	<4.8	<5.1	-	-
Ethylbenzene	µg/kg	<4.8	<5.1	-	-
Methyl tert butyl ether (MTBE)	µg/kg	<4.8	-	-	-
Tetrachloroethene	µg/kg	<4.8	<5.1	-	-
Toluene	µg/kg	<4.8	<5.1	-	-
Trichloroethene	µg/kg	<4.8	<5.1	-	-
Xylenes (total)	µg/kg	<9.5	<10	-	-
<i>Semi-volatile Organic Compounds - SIM</i>					
Acenaphthene	µg/kg	180	<25	<4.9	<4.9
Acenaphthylene	µg/kg	53	<25	<4.9	<4.9
Anthracene	µg/kg	<49	<25	<4.9	<4.9
Benzo(a)anthracene	µg/kg	<49	<25	<4.9	<4.9
Benzo(a)pyrene	µg/kg	<49	<25	<4.9	<4.9
Benzo(b)fluoranthene	µg/kg	<49	<25	<4.9	<4.9
Benzo(g,h,i)perylene	µg/kg	<49	38	<4.9	<4.9
Benzo(k)fluoranthene	µg/kg	<49	<25	<4.9	<4.9
Chrysene	µg/kg	<49	<25	<4.9	<4.9
Dibenz(a,h)anthracene	µg/kg	<49	<25	<4.9	<4.9
Fluoranthene	µg/kg	<49	<25	<4.9	<4.9
Fluorene	µg/kg	57	<25	<4.9	<4.9
Indeno(1,2,3-cd)pyrene	µg/kg	<49	<25	<4.9	<4.9
Naphthalene	µg/kg	<49	<25	<4.9	<4.9
Phenanthrene	µg/kg	<49	<25	<4.9	<4.9
Pyrene	µg/kg	85	<25	<4.9	<4.9

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

Parameters	Units	Sample Location:	Composite	Composite	ESW1	ESW2
		Sample ID:	SO-2344-COMP2-100712	SO-2344-COMP3-110712	SO-2344-ESW1-110712	SO-2344-ESW2-110712
		Sample Date:	7/10/2012	7/11/2012	7/11/2012	7/11/2012
Metals						
Cadmium	mg/kg	0.51	<0.47	-	-	
Chromium	mg/kg	90	81	-	-	
Lead	mg/kg	6.9	4.7	-	-	
Nickel	mg/kg	140	140	-	-	
Zinc	mg/kg	56	42	-	-	
Metals - STLC						
Cadmium	mg/L	<0.050	<0.050	-	-	
Chromium	mg/L	0.61	0.31	-	-	
Lead	mg/L	<0.13	<0.13	-	-	
Nickel	mg/L	2.3	3.6	-	-	
Zinc	mg/L	<0.50	<0.50	-	-	
Petroleum Products						
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/kg	800	<260	-	-	
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	4200	160 J	20	<1.0	
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	4600	310 J	<49	<50	

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	NSW1	NSW2	NSW3	NSW4
	<i>Sample ID:</i>	SO-2344-NSW1-100712	SO-2344-NSW2-100712	SO-2344-NSW3-110712	SO-2344-NSW4-110712
	<i>Sample Date:</i>	7/10/2012	7/10/2012	7/11/2012	7/11/2012
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
Benzene	µg/kg	-	-	-	-
Ethylbenzene	µg/kg	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-
Tetrachloroethene	µg/kg	-	-	-	-
Toluene	µg/kg	-	-	-	-
Trichloroethene	µg/kg	-	-	-	-
Xylenes (total)	µg/kg	-	-	-	-
<i>Semi-volatile Organic Compounds - SIM</i>					
Acenaphthene	µg/kg	<5.0	<4.9	<5.0	<5.0
Acenaphthylene	µg/kg	<5.0	<4.9	<5.0	<5.0
Anthracene	µg/kg	<5.0	<4.9	<5.0	<5.0
Benzo(a)anthracene	µg/kg	<5.0	<4.9	<5.0	<5.0
Benzo(a)pyrene	µg/kg	<5.0	<4.9	<5.0	<5.0
Benzo(b)fluoranthene	µg/kg	<5.0	<4.9	<5.0	<5.0
Benzo(g,h,i)perylene	µg/kg	<5.0	<4.9	<5.0	<5.0
Benzo(k)fluoranthene	µg/kg	<5.0	<4.9	<5.0	<5.0
Chrysene	µg/kg	<5.0	<4.9	<5.0	<5.0
Dibenz(a,h)anthracene	µg/kg	<5.0	<4.9	<5.0	<5.0
Fluoranthene	µg/kg	<5.0	<4.9	<5.0	<5.0
Fluorene	µg/kg	<5.0	<4.9	<5.0	<5.0
Indeno(1,2,3-cd)pyrene	µg/kg	<5.0	<4.9	<5.0	<5.0
Naphthalene	µg/kg	<5.0	<4.9	<5.0	<5.0
Phenanthrene	µg/kg	<5.0	<4.9	<5.0	<5.0
Pyrene	µg/kg	<5.0	<4.9	<5.0	<5.0

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

Parameters	Units	NSW1		NSW2		NSW3		NSW4	
		Sample ID:	SO-2344-NSW1-100712	Sample ID:	SO-2344-NSW2-100712	Sample ID:	SO-2344-NSW3-110712	Sample ID:	SO-2344-NSW4-110712
		Sample Date:	7/10/2012	Sample Date:	7/10/2012	Sample Date:	7/11/2012	Sample Date:	7/11/2012
Metals									
Cadmium	mg/kg	-	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-
Metals - STLC									
Cadmium	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Petroleum Products									
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/kg	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	18	<1.0	<1.0	<1.0	<1.0	<1.0	<0.99	<0.99
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	<50	<50	<50	<50	<50	<50	<49	<49

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	Sample Location: Sample ID: Sample Date:			
	NSW5	NSW6	SSW1	
	SO-2344-NSW5-110712	SO-2344-NSW6-110712	SO-2344-SSW1-100712	
	7/11/2012	7/11/2012	7/10/2012	
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
Benzene	µg/kg	-	-	-
Ethylbenzene	µg/kg	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-
Tetrachloroethene	µg/kg	-	-	-
Toluene	µg/kg	-	-	-
Trichloroethene	µg/kg	-	-	-
Xylenes (total)	µg/kg	-	-	-
<i>Semi-volatile Organic Compounds - SIM</i>				
Acenaphthene	µg/kg	<49	<5.0	<25
Acenaphthylene	µg/kg	<49	<5.0	<25
Anthracene	µg/kg	<49	<5.0	<25
Benzo(a)anthracene	µg/kg	<49	<5.0	<25
Benzo(a)pyrene	µg/kg	67	<5.0	<25
Benzo(b)fluoranthene	µg/kg	110	<5.0	<25
Benzo(g,h,i)perylene	µg/kg	54	<5.0	<25
Benzo(k)fluoranthene	µg/kg	<49	<5.0	<25
Chrysene	µg/kg	53	<5.0	<25
Dibenz(a,h)anthracene	µg/kg	<49	<5.0	<25
Fluoranthene	µg/kg	74	5.6	<25
Fluorene	µg/kg	<49	<5.0	<25
Indeno(1,2,3-cd)pyrene	µg/kg	<49	<5.0	<25
Naphthalene	µg/kg	<49	<5.0	<25
Phenanthrene	µg/kg	60	7.7	<25
Pyrene	µg/kg	120	25	<25

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

<i>Sample Location:</i>		NSW5	NSW6	SSW1
<i>Sample ID:</i>		SO-2344-NSW5-110712	SO-2344-NSW6-110712	SO-2344-SSW1-100712
<i>Sample Date:</i>		7/11/2012	7/11/2012	7/10/2012
<i>Parameters</i>	<i>Units</i>			
<i>Metals</i>				
Cadmium	mg/kg	-	-	-
Chromium	mg/kg	-	-	-
Lead	mg/kg	-	-	-
Nickel	mg/kg	-	-	-
Zinc	mg/kg	-	-	-
<i>Metals - STLC</i>				
Cadmium	mg/L	-	-	-
Chromium	mg/L	-	-	-
Lead	mg/L	-	-	-
Nickel	mg/L	-	-	-
Zinc	mg/L	-	-	-
<i>Petroleum Products</i>				
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/kg	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	28	<0.98	320
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	55	<49	500

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	Sample Location: SSW2 SSW3 SSW4			
	Sample ID: SO-2344-SSW2-100712 SO-2344-SSW3-110712 SO-2344-SSW4-110712			
	Sample Date: 7/10/2012 7/11/2012 7/11/2012			
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
Benzene	µg/kg	-	-	-
Ethylbenzene	µg/kg	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-
Tetrachloroethene	µg/kg	-	-	-
Toluene	µg/kg	-	-	-
Trichloroethene	µg/kg	-	-	-
Xylenes (total)	µg/kg	-	-	-
<i>Semi-volatile Organic Compounds - SIM</i>				
Acenaphthene	µg/kg	<50	<25	<5.0
Acenaphthylene	µg/kg	<50	<25	<5.0
Anthracene	µg/kg	<50	<25	<5.0
Benzo(a)anthracene	µg/kg	56	<25	<5.0
Benzo(a)pyrene	µg/kg	<50	<25	<5.0
Benzo(b)fluoranthene	µg/kg	<50	<25	<5.0
Benzo(g,h,i)perylene	µg/kg	<50	<25	<5.0
Benzo(k)fluoranthene	µg/kg	<50	<25	<5.0
Chrysene	µg/kg	72	<25	<5.0
Dibenz(a,h)anthracene	µg/kg	<50	<25	<5.0
Fluoranthene	µg/kg	<50	<25	<5.0
Fluorene	µg/kg	<50	<25	<5.0
Indeno(1,2,3-cd)pyrene	µg/kg	<50	<25	<5.0
Naphthalene	µg/kg	<50	<25	<5.0
Phenanthrene	µg/kg	<50	<25	<5.0
Pyrene	µg/kg	62	<25	<5.0

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

		<i>Sample Location:</i>	SSW2	SSW3	SSW4
		<i>Sample ID:</i>	SO-2344-SSW2-100712	SO-2344-SSW3-110712	SO-2344-SSW4-110712
		<i>Sample Date:</i>	7/10/2012	7/11/2012	7/11/2012
<i>Parameters</i>	<i>Units</i>				
<i>Metals</i>					
Cadmium	mg/kg		-	-	-
Chromium	mg/kg		-	-	-
Lead	mg/kg		-	-	-
Nickel	mg/kg		-	-	-
Zinc	mg/kg		-	-	-
<i>Metals - STLC</i>					
Cadmium	mg/L		-	-	-
Chromium	mg/L		-	-	-
Lead	mg/L		-	-	-
Nickel	mg/L		-	-	-
Zinc	mg/L		-	-	-
<i>Petroleum Products</i>					
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/kg		-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg		1800	39	<0.99
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg		2000	93	<50

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	Sample Location:	SSW6	WSW1	WSW2
	Sample ID:	SO-2344-SSW6-110712	SO-2344-WSW1-100712	SO-2344-WSW2-110712
	Sample Date:	7/11/2012	7/10/2012	7/11/2012
Parameters	Units			
Volatile Organic Compounds				
Benzene	µg/kg	-	-	-
Ethylbenzene	µg/kg	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-
Tetrachloroethene	µg/kg	-	-	-
Toluene	µg/kg	-	-	-
Trichloroethene	µg/kg	-	-	-
Xylenes (total)	µg/kg	-	-	-
Semi-volatile Organic Compounds - SIM				
Acenaphthene	µg/kg	<5.0	<5.0	<9.9
Acenaphthylene	µg/kg	<5.0	<5.0	<9.9
Anthracene	µg/kg	<5.0	<5.0	<9.9
Benzo(a)anthracene	µg/kg	<5.0	<5.0	<9.9
Benzo(a)pyrene	µg/kg	<5.0	<5.0	<9.9
Benzo(b)fluoranthene	µg/kg	<5.0	<5.0	<9.9
Benzo(g,h,i)perylene	µg/kg	<5.0	<5.0	<9.9
Benzo(k)fluoranthene	µg/kg	<5.0	<5.0	<9.9
Chrysene	µg/kg	<5.0	<5.0	<9.9
Dibenz(a,h)anthracene	µg/kg	<5.0	<5.0	<9.9
Fluoranthene	µg/kg	<5.0	<5.0	<9.9
Fluorene	µg/kg	<5.0	<5.0	<9.9
Indeno(1,2,3-cd)pyrene	µg/kg	<5.0	<5.0	<9.9
Naphthalene	µg/kg	<5.0	<5.0	<9.9
Phenanthrene	µg/kg	<5.0	<5.0	20
Pyrene	µg/kg	<5.0	<5.0	<9.9

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

<i>Sample Location:</i>		SSW6	WSW1	WSW2
<i>Sample ID:</i>		SO-2344-SSW6-110712	SO-2344-WSW1-100712	SO-2344-WSW2-110712
<i>Sample Date:</i>		7/11/2012	7/10/2012	7/11/2012
<i>Parameters</i>	<i>Units</i>			
<i>Metals</i>				
Cadmium	mg/kg	-	-	-
Chromium	mg/kg	-	-	-
Lead	mg/kg	-	-	-
Nickel	mg/kg	-	-	-
Zinc	mg/kg	-	-	-
<i>Metals - STLC</i>				
Cadmium	mg/L	-	-	-
Chromium	mg/L	-	-	-
Lead	mg/L	-	-	-
Nickel	mg/L	-	-	-
Zinc	mg/L	-	-	-
<i>Petroleum Products</i>				
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/kg	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	2.7	1.0	37 J
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	<50	<50	<50

Notes:

- Not analyzed.

J - Estimated.

SIM - Selective Ion Monitoring

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	<i>Composite</i>
	<i>Sample ID:</i>	W-2344-COMP-120712
	<i>Sample Date:</i>	7/12/2012
<i>Parameters</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
1,1,1,2-Tetrachloroethane	µg/L	<0.50
1,1,1-Trichloroethane	µg/L	<0.50
1,1,2,2-Tetrachloroethane	µg/L	<0.50
1,1,2-Trichloroethane	µg/L	<0.50
1,1-Dichloroethane	µg/L	<0.50
1,1-Dichloroethene	µg/L	<0.50
1,1-Dichloropropene	µg/L	<0.50
1,2,3-Trichlorobenzene	µg/L	<1.0
1,2,3-Trichloropropane	µg/L	<0.50
1,2,4-Trichlorobenzene	µg/L	<1.0
1,2,4-Trimethylbenzene	µg/L	<0.50
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	<1.0
1,2-Dibromoethane (Ethylene dibromide)	µg/L	<0.50
1,2-Dichlorobenzene	µg/L	<0.50
1,2-Dichloroethane	µg/L	<0.50
1,2-Dichloropropane	µg/L	<0.50
1,3,5-Trimethylbenzene	µg/L	<0.50
1,3-Dichlorobenzene	µg/L	<0.50
1,3-Dichloropropane	µg/L	<1.0
1,4-Dichlorobenzene	µg/L	<0.50
2,2-Dichloropropane	µg/L	<0.50
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	<50
2-Chlorotoluene	µg/L	<0.50
2-Hexanone	µg/L	<50
2-Phenylbutane (sec-Butylbenzene)	µg/L	<1.0
4-Chlorotoluene	µg/L	<0.50
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	<50
Acetone	µg/L	<50
Benzene	µg/L	<0.50
Bromobenzene	µg/L	<1.0
Bromodichloromethane	µg/L	<0.50
Bromoform	µg/L	<1.0
Bromomethane (Methyl bromide)	µg/L	<1.0
Carbon disulfide	µg/L	<5.0
Carbon tetrachloride	µg/L	<0.50
Chlorobenzene	µg/L	<0.50
Chlorobromomethane	µg/L	<1.0
Chloroethane	µg/L	<1.0
Chloroform (Trichloromethane)	µg/L	<1.0
Chloromethane (Methyl chloride)	µg/L	<1.0
cis-1,2-Dichloroethene	µg/L	<0.50

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	<i>Composite</i>
	<i>Sample ID:</i>	<i>W-2344-COMP-120712</i>
	<i>Sample Date:</i>	<i>7/12/2012</i>
<i>Parameters</i>	<i>Units</i>	
<i>Volatile Organic Compounds (Cont'd.)</i>		
cis-1,3-Dichloropropene	µg/L	<0.50
Cymene (p-Isopropyltoluene)	µg/L	<1.0
Dibromochloromethane	µg/L	<0.50
Dibromomethane	µg/L	<0.50
Dichlorodifluoromethane (CFC-12)	µg/L	<0.50
Diisopropyl ether	µg/L	<0.50
Ethylbenzene	µg/L	<0.50
Hexachlorobutadiene	µg/L	<1.0
Isopropyl benzene	µg/L	<0.50
Methyl tert butyl ether (MTBE)	µg/L	<0.50
Methylene chloride	µg/L	<5.0
Naphthalene	µg/L	<1.0
N-Butylbenzene	µg/L	<1.0
N-Propylbenzene	µg/L	<1.0
Styrene	µg/L	<0.50
tert-Amyl methyl ether	µg/L	<0.50
tert-Butyl alcohol	µg/L	<4.0
tert-Butyl ethyl ether	µg/L	<0.50
tert-Butylbenzene	µg/L	<1.0
Tetrachloroethene	µg/L	<0.50
Toluene	µg/L	<0.50
trans-1,2-Dichloroethene	µg/L	<0.50
trans-1,3-Dichloropropene	µg/L	<0.50
Trichloroethene	µg/L	<0.50
Trichlorofluoromethane (CFC-11)	µg/L	<1.0
Trifluorotrichloroethane (Freon 113)	µg/L	<0.50
Vinyl acetate	µg/L	<10
Vinyl chloride	µg/L	<0.50
Xylenes (total)	µg/L	<1.0
<i>Semi-volatile Organic Compounds</i>		
1,2,4-Trichlorobenzene	µg/L	<2.1
1,2-Dichlorobenzene	µg/L	<2.1
1,3-Dichlorobenzene	µg/L	<2.1
1,4-Dichlorobenzene	µg/L	<2.1
2,4,5-Trichlorophenol	µg/L	<4.1
2,4,6-Trichlorophenol	µg/L	<2.1
2,4-Dichlorophenol	µg/L	<5.2
2,4-Dimethylphenol	µg/L	<3.1
2,4-Dinitrophenol	µg/L	<10
2,4-Dinitrotoluene	µg/L	<4.1

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	<i>Composite</i>
	<i>Sample ID:</i>	W-2344-COMP-120712
	<i>Sample Date:</i>	7/12/2012
<i>Parameters</i>	<i>Units</i>	
<i>Semi-volatile Organic Compounds (Cont'd.)</i>		
2,6-Dinitrotoluene	µg/L	<5.2
2-Chloronaphthalene	µg/L	<4.1
2-Chlorophenol	µg/L	<4.1
2-Methylnaphthalene	µg/L	<2.1
2-Methylphenol	µg/L	<4.1
2-Nitroaniline	µg/L	<10
2-Nitrophenol	µg/L	<2.1
3,3'-Dichlorobenzidine	µg/L	<5.2
3-Nitroaniline	µg/L	<5.2
4,6-Dinitro-2-methylphenol	µg/L	<10
4-Bromophenyl phenyl ether	µg/L	<5.2
4-Chloro-3-methylphenol	µg/L	<5.2
4-Chloroaniline	µg/L	<2.1
4-Chlorophenyl phenyl ether	µg/L	<5.2
4-Methylphenol	µg/L	<8.2
4-Nitroaniline	µg/L	<10
4-Nitrophenol	µg/L	<10
Acenaphthene	µg/L	<2.1
Acenaphthylene	µg/L	<4.1
Anthracene	µg/L	<2.1
Azobenzene	µg/L	<2.1
Benzo(a)anthracene	µg/L	<5.2
Benzo(a)pyrene	µg/L	<2.1
Benzo(b)fluoranthene	µg/L	<2.1
Benzo(g,h,i)perylene	µg/L	<2.1
Benzo(k)fluoranthene	µg/L	<2.1
Benzoic acid	µg/L	<10
Benzyl alcohol	µg/L	<5.2
bis(2-Chloroethoxy)methane	µg/L	<5.2
bis(2-Chloroethyl)ether	µg/L	<2.1
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	<10
Butyl benzylphthalate (BBP)	µg/L	<5.2
Chrysene	µg/L	<2.1
Dibenz(a,h)anthracene	µg/L	<2.1
Dibenzofuran	µg/L	<4.1
Diethyl phthalate	µg/L	<5.2
Dimethyl phthalate	µg/L	<5.2
Di-n-butylphthalate (DBP)	µg/L	<5.2
Di-n-octyl phthalate (DnOP)	µg/L	<5.2
Fluoranthene	µg/L	<2.1
Fluorene	µg/L	<4.1

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

JULY 2012

	<i>Sample Location:</i>	<i>Composite</i>
	<i>Sample ID:</i>	W-2344-COMP-120712
	<i>Sample Date:</i>	7/12/2012
<i>Parameters</i>	<i>Units</i>	
<i>Semi-volatile Organic Compounds (Cont'd.)</i>		
Hexachlorobenzene	µg/L	<2.1
Hexachlorobutadiene	µg/L	<2.1
Hexachlorocyclopentadiene	µg/L	<5.2
Hexachloroethane	µg/L	<2.1
Indeno(1,2,3-cd)pyrene	µg/L	<2.1
Isophorone	µg/L	<4.1
Naphthalene	µg/L	<2.1
Nitrobenzene	µg/L	<2.1
N-Nitrosodi-n-propylamine	µg/L	<2.1
N-Nitrosodiphenylamine	µg/L	<2.1
Pentachlorophenol	µg/L	<10
Phenanthrene	µg/L	<2.1
Phenol	µg/L	<2.1
Pyrene	µg/L	<2.1
<i>Semi-volatile Organic Compounds - SIM</i>		
Acenaphthene	µg/L	<0.10
Acenaphthylene	µg/L	<0.10
Anthracene	µg/L	<0.10
Benzo(a)anthracene	µg/L	<0.10
Benzo(a)pyrene	µg/L	<0.10
Benzo(b)fluoranthene	µg/L	<0.10
Benzo(g,h,i)perylene	µg/L	<0.10
Benzo(k)fluoranthene	µg/L	<0.10
Chrysene	µg/L	<0.10
Dibenz(a,h)anthracene	µg/L	<0.10
Fluoranthene	µg/L	<0.10
Fluorene	µg/L	<0.10
Indeno(1,2,3-cd)pyrene	µg/L	<0.10
Naphthalene	µg/L	<0.10
Phenanthrene	µg/L	<0.10
Pyrene	µg/L	<0.10
<i>Metals</i>		
Cadmium	mg/L	<0.0025
Cadmium (dissolved)	mg/L	<0.0020
Chromium	mg/L	<0.010
Chromium (dissolved)	mg/L	<0.010
Lead	mg/L	<0.0050
Lead (dissolved)	mg/L	0.0060

TABLE 1B

**ANALYTICAL RESULTS SUMMARY
SITE ASSESSMENT
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA
JULY 2012**

	<i>Sample Location:</i>	<i>Composite</i>
	<i>Sample ID:</i>	W-2344-COMP-120712
	<i>Sample Date:</i>	7/12/2012
<i>Parameters</i>	<i>Units</i>	
<i>Metals (Cont'd.)</i>		
Nickel	mg/L	<0.010
Nickel (dissolved)	mg/L	<0.010
Zinc	mg/L	<0.020
Zinc (dissolved)	mg/L	0.023
<i>Petroleum Products</i>		
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/L	<50
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	µg/L	1900
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	µg/L	6100

Notes:

SIM - Selective Ion Monitoring
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

TABLE 2

QUALIFIED SAMPLE DATA DUE TO OUTLYING SURROGATE RECOVERIES
SITE ASSESSMENT
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA
JULY 2012

<i>Parameter</i>	<i>Surrogate</i>	<i>Surrogate Recovery (percent)</i>	<i>Control Limits (percent)</i>	<i>Sample ID</i>	<i>Analytes</i>	<i>Qualified Sample Results</i>	<i>Units</i>
SW8015D	p-Terphenyl	24	38-148	SO-2344-COMP3-110712	Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	160 J	mg/kg
SW8015D	p-Terphenyl	24	38-148	SO-2344-COMP3-110712	Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	310 J	mg/kg
SW8015D	Capric Acid	2	0-1	SO-2344-WSW2-110712	Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	37 J	mg/kg

Notes:

DRO Diesel Range Organics



**CONESTOGA-ROVERS
& ASSOCIATES**

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MEMORANDUM

TO: Lia Holden REF. NO.: 058324-2344

FROM: Jeffrey Cloud/bjw/268-NF *Jeffrey Cloud* DATE: June 6, 2012

C.C.: Jesse Orth, Julie Lidstone E-Mail and Hard Copy if Requested

RE: **Data Quality Assessment and Validation of Reports J41839 & J41840**
Site Assessment
2 Fourth Street and 34 Sixth Street
Santa Rosa, California
April 2012

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the April 2012, collection of soil and groundwater samples in Santa Rosa, California. Samples were submitted to Test America Laboratories (TA), in Pleasanton, California, and analyzed for the following:

<i>Parameter</i>	<i>Methodology</i>
Volatile Organic Compounds (VOCs)	SW846 8260B
Semi-Volatile Organic Compounds (SVOCs)	SW846 8270C
Gasoline Range Organics (GRO)	CA LUFT GC/MS
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	SW846 8015B
Metals	SW846 6010B

The analytical results are summarized in Tables 1A and 1B. The QC criteria used to assess the data were established by the methods and with the following guidance documents:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", USEPA 540/R-99/008, October 1999
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", USEPA 540/R-94/013, February 1994

These guidelines are collectively referred to as "Guidelines" in this memorandum.

SAMPLE QUANTITATION

The laboratory did not report any detected concentrations below the laboratory's practical quantitation limit (PQL)/report limit (RL).

SAMPLE PRESERVATION AND HOLDING TIMES

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled after collection.

METHOD BLANK SAMPLES

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method blanks were analyzed at the recommended frequency and all results were non-detect for the compounds of interest.

SURROGATE COMPOUNDS – ORGANIC ANALYSES

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses with a few exceptions. Two sample results were qualified as estimated (See Table 2).

LABORATORY CONTROL SAMPLE (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits.

Laboratory control samples (LCS) were analyzed in duplicate for all parameters. All recoveries were within required control limits showing adequate analytical accuracy and precision.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent for water samples and 30 percent for soil samples.

Matrix spikes (MS) were prepared and analyzed in duplicate for SVOCs, DRO/ORO and metals. All recoveries were within required control limits showing adequate analytical accuracy and precision with a few exceptions. One sample result was qualified as estimated (See Table 3). Precision, for VOCs and GRO, was determined to be acceptable based on LCS/LCSD recoveries.

FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

No field QA/QC samples were submitted to the laboratory for analysis.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

Sample Location:		B1	B1	B1	B2	B2	B2
Sample ID:	SO-2344-B1-5-042312	SO-2344-B1-10-042312	SO-2344-B1-16-042312	SO-2344-B2-5-042312	SO-2344-B2-11-042312	SO-2344-B2-14-042312	
Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	
Sample Depth:	5 ft BGS	10 ft BGS	16 ft BGS	5 ft BGS	11 ft BGS	14 ft BGS	
Parameters	Units						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/kg	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	-	-	-
Bromobenzene	mg/kg	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	-	-	-
Bromoform	mg/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-	-	-	-	-

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>
	<i>Sample ID:</i>	SO-2344-B1-5-042312	SO-2344-B1-10-042312	SO-2344-B1-16-042312	SO-2344-B2-5-042312	SO-2344-B2-11-042312	SO-2344-B2-14-042312
	<i>Sample Date:</i>	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012
	<i>Sample Depth:</i>	5 ft BGS	10 ft BGS	16 ft BGS	5 ft BGS	11 ft BGS	14 ft BGS
<i>Parameters</i>	<i>Units</i>						
<i>Volatile Organic Compounds (Cont'd.)</i>							
Carbon disulfide	mg/kg	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	-	-	-
Chlorobromomethane	mg/kg	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/kg	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	-
Dibromomethane	mg/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-
N-Butylbenzene	mg/kg	-	-	-	-	-	-
N-Propylbenzene	mg/kg	-	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	-	-	-	-
Toluene	mg/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	-
Xylenes (total)	mg/kg	-	-	-	-	-	-

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Parameters</i>	<i>Units</i>	<i>Sample Location:</i> <i>Sample ID:</i> <i>Sample Date:</i> <i>Sample Depth:</i>					
		B1	B1	B1	B2	B2	B2
		SO-2344-B1-5-042312	SO-2344-B1-10-042312	SO-2344-B1-16-042312	SO-2344-B2-5-042312	SO-2344-B2-11-042312	SO-2344-B2-14-042312
		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012
		5 ft BGS	10 ft BGS	16 ft BGS	5 ft BGS	11 ft BGS	14 ft BGS
<i>Semi-volatile Organic Compounds</i>							
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-
3&4-Methylphenol	mg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-
Azobenzene	mg/kg	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

Parameters	Units	Sample Location:	B1	B1	B1	B2	B2	B2
		Sample ID:	SO-2344-B1-5-042312	SO-2344-B1-10-042312	SO-2344-B1-16-042312	SO-2344-B2-5-042312	SO-2344-B2-11-042312	SO-2344-B2-14-042312
		Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012
		Sample Depth:	5 ft BGS	10 ft BGS	16 ft BGS	5 ft BGS	11 ft BGS	14 ft BGS
Semi-volatile Organic Compounds (Cont'd.)								
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	
Benzoic acid	mg/kg	-	-	-	-	-	-	
Benzyl alcohol	mg/kg	-	-	-	-	-	-	
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	
Chrysene	mg/kg	-	-	-	-	-	-	
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	
Dibenzofuran	mg/kg	-	-	-	-	-	-	
Diethyl phthalate	mg/kg	-	-	-	-	-	-	
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	
Fluoranthene	mg/kg	-	-	-	-	-	-	
Fluorene	mg/kg	-	-	-	-	-	-	
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	
Hexachloroethane	mg/kg	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	
Isophorone	mg/kg	-	-	-	-	-	-	
Naphthalene	mg/kg	-	-	-	-	-	-	
Nitrobenzene	mg/kg	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	
Pentachlorophenol	mg/kg	-	-	-	-	-	-	
Phenanthrene	mg/kg	-	-	-	-	-	-	
Phenol	mg/kg	-	-	-	-	-	-	
Pyrene	mg/kg	-	-	-	-	-	-	

TABLE 1A
ANALYTICAL RESULTS SUMMARY
SITE ASSESSMENT
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA
APRIL 2012

	<i>Sample Location:</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>
	<i>Sample ID:</i>	SO-2344-B1-5-042312	SO-2344-B1-10-042312	SO-2344-B1-16-042312	SO-2344-B2-5-042312	SO-2344-B2-11-042312	SO-2344-B2-14-042312
	<i>Sample Date:</i>	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012
	<i>Sample Depth:</i>	5 ft BGS	10 ft BGS	16 ft BGS	5 ft BGS	11 ft BGS	14 ft BGS
<i>Parameters</i>	<i>Units</i>						
<i>Semi-volatile Organic Compounds-SIM</i>							
Acenaphthene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Acenaphthylene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Anthracene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Benzo(a)anthracene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Benzo(a)pyrene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Benzo(b)fluoranthene	mg/kg	0.035	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Benzo(g,h,i)perylene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Benzo(k)fluoranthene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Chrysene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Dibenz(a,h)anthracene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Fluoranthene	mg/kg	0.027	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Fluorene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Indeno(1,2,3-cd)pyrene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Naphthalene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Phenanthrene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
Pyrene	mg/kg	<0.025	<0.025	<0.0050	<0.0050	<0.025	<0.0050
<i>Metals</i>							
Cadmium	mg/kg	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-
<i>Petroleum Products</i>							
Total Petroleum Hydrocarbons (C5-C12) GRO	mg/kg	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	15	25	49	<1.0	240	<0.98
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	51	87	<50	<50	610	<49

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

		Sample Location:		B3	B3	B3	B4	B4	B4
		Sample ID:	SO-2344-B3-5-042312	SO-2344-B3-12-042312	SO-2344-B3-15.5-042312	SO-2344-B4-5-042312	SO-2344-B4-12-042312	SO-2344-B4-16-042312	
		Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	
		Sample Depth:	5 ft BGS	12 ft BGS	15.5 ft BGS	5 ft BGS	12 ft BGS	16 ft BGS	
Parameters		Units							
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	
1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	-	-	
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	-	-	
1,1-Dichloroethane	mg/kg	-	-	-	-	-	-	-	
1,1-Dichloroethene	mg/kg	-	-	-	-	-	-	-	
1,1-Dichloropropene	mg/kg	-	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	
1,2,4-Trimethylbenzene	mg/kg	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-	-	-	-	-	
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	
1,2-Dichloroethane	mg/kg	-	-	-	-	-	-	-	
1,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	mg/kg	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	
1,3-Dichloropropane	mg/kg	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	
2,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-	-	-	-	-	
2-Chlorotoluene	mg/kg	-	-	-	-	-	-	-	
2-Hexanone	mg/kg	-	-	-	-	-	-	-	
2-Phenylbutane (sec-Butylbenzene)	mg/kg	-	-	-	-	-	-	-	
4-Chlorotoluene	mg/kg	-	-	-	-	-	-	-	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	-	-	-	-	-	
Acetone	mg/kg	-	-	-	-	-	-	-	
Benzene	mg/kg	-	-	-	-	-	-	-	
Bromobenzene	mg/kg	-	-	-	-	-	-	-	
Bromodichloromethane	mg/kg	-	-	-	-	-	-	-	
Bromoform	mg/kg	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	mg/kg	-	-	-	-	-	-	-	

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

		B3		B3		B4		B4	
Sample Location:		SO-2344-B3-5-042312	SO-2344-B3-12-042312	SO-2344-B3-15.5-042312	SO-2344-B4-5-042312	SO-2344-B4-12-042312	SO-2344-B4-16-042312		
Sample Date:		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	
Sample Depth:		5 ft BGS	12 ft BGS	15.5 ft BGS	5 ft BGS	12 ft BGS	16 ft BGS		
Parameters	Units								
Volatile Organic Compounds (Cont'd.)									
Carbon disulfide	mg/kg	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	-	-	-	-	-
Chlorobromomethane	mg/kg	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/kg	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/kg	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	-
N-Butylbenzene	mg/kg	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	-	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	-	-	-	-	-	-
Toluene	mg/kg	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	-	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	-	-	-
Xylenes (total)	mg/kg	-	-	-	-	-	-	-	-

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Parameters</i>	<i>Units</i>	<i>Sample Location:</i> <i>Sample ID:</i> <i>Sample Date:</i> <i>Sample Depth:</i>					
		B3	B3	B3	B4	B4	B4
		SO-2344-B3-5-042312	SO-2344-B3-12-042312	SO-2344-B3-15.5-042312	SO-2344-B4-5-042312	SO-2344-B4-12-042312	SO-2344-B4-16-042312
		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012
		5 ft BGS	12 ft BGS	15.5 ft BGS	5 ft BGS	12 ft BGS	16 ft BGS
<i>Semi-volatile Organic Compounds</i>							
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-
3&4-Methylphenol	mg/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-
Azobenzene	mg/kg	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

		Sample Location:		B3	B3	B3	B4	B4	B4
		Sample ID:	SO-2344-B3-5-042312	SO-2344-B3-12-042312	SO-2344-B3-15.5-042312	SO-2344-B4-5-042312	SO-2344-B4-12-042312	SO-2344-B4-16-042312	
		Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	
		Sample Depth:	5 ft BGS	12 ft BGS	15.5 ft BGS	5 ft BGS	12 ft BGS	16 ft BGS	
Parameters		Units							
Semi-volatile Organic Compounds (Cont'd.)									
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	
Benzoic acid	mg/kg	-	-	-	-	-	-	-	
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-	
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-	
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-	
Chrysene	mg/kg	-	-	-	-	-	-	-	
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-	
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-	
Fluoranthene	mg/kg	-	-	-	-	-	-	-	
Fluorene	mg/kg	-	-	-	-	-	-	-	
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	
Isophorone	mg/kg	-	-	-	-	-	-	-	
Naphthalene	mg/kg	-	-	-	-	-	-	-	
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	
Phenanthrene	mg/kg	-	-	-	-	-	-	-	
Phenol	mg/kg	-	-	-	-	-	-	-	
Pyrene	mg/kg	-	-	-	-	-	-	-	

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Sample Location:</i>		<i>B3</i>	<i>B3</i>	<i>B3</i>	<i>B4</i>	<i>B4</i>	<i>B4</i>
<i>Sample ID:</i>		SO-2344-B3-5-042312	SO-2344-B3-12-042312	SO-2344-B3-15.5-042312	SO-2344-B4-5-042312	SO-2344-B4-12-042312	SO-2344-B4-16-042312
<i>Sample Date:</i>		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012
<i>Sample Depth:</i>		5 ft BGS	12 ft BGS	15.5 ft BGS	5 ft BGS	12 ft BGS	16 ft BGS
<i>Parameters</i>	<i>Units</i>						
<i>Semi-volatile Organic Compounds-SIM</i>							
Acenaphthene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Acenaphthylene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Anthracene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Benzo(a)anthracene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Benzo(a)pyrene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Benzo(b)fluoranthene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Benzo(g,h,i)perylene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Benzo(k)fluoranthene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Chrysene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Dibenz(a,h)anthracene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Fluoranthene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Fluorene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Naphthalene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	0.020	<0.0050
Phenanthrene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	<0.0099	<0.0050
Pyrene	mg/kg	<0.0049	<0.0050	<0.0049	<0.025	0.017	<0.0050
<i>Metals</i>							
Cadmium	mg/kg	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-
<i>Petroleum Products</i>							
Total Petroleum Hydrocarbons (C5-C12) GRO	mg/kg	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	<1.0	<1.0	<1.0	77	810	<0.99
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	<50	<50	<50	220	<500	<50

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	Sample Location:		B5	B5	B5	Composite
	Sample ID:	SO-2344-B5-5-042312	SO-2344-B5-10-042312	SO-2344-B5-16-042312	SO-2344-COMPOSITE-042512	
	Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/25/2012	
	Sample Depth:	5 ft BGS	10 ft BGS	16 ft BGS	-	
Parameters	Units					
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	<0.0049	
1,1,1-Trichloroethane	mg/kg	-	-	-	<0.0049	
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	<0.0049	
1,1,2-Trichloroethane	mg/kg	-	-	-	<0.0049	
1,1-Dichloroethane	mg/kg	-	-	-	<0.0049	
1,1-Dichloroethene	mg/kg	-	-	-	<0.0049	
1,1-Dichloropropene	mg/kg	-	-	-	<0.0049	
1,2,3-Trichlorobenzene	mg/kg	-	-	-	<0.0049	
1,2,3-Trichloropropane	mg/kg	-	-	-	<0.0049	
1,2,4-Trichlorobenzene	mg/kg	-	-	-	<0.0049	
1,2,4-Trimethylbenzene	mg/kg	-	-	-	<0.0049	
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-	<0.0049	
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-	<0.0049	
1,2-Dichlorobenzene	mg/kg	-	-	-	<0.0049	
1,2-Dichloroethane	mg/kg	-	-	-	<0.0049	
1,2-Dichloropropane	mg/kg	-	-	-	<0.0049	
1,3,5-Trimethylbenzene	mg/kg	-	-	-	<0.0049	
1,3-Dichlorobenzene	mg/kg	-	-	-	<0.0049	
1,3-Dichloropropane	mg/kg	-	-	-	<0.0049	
1,4-Dichlorobenzene	mg/kg	-	-	-	<0.0049	
2,2-Dichloropropane	mg/kg	-	-	-	<0.0049	
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-	<0.049	
2-Chlorotoluene	mg/kg	-	-	-	<0.0049	
2-Hexanone	mg/kg	-	-	-	<0.049	
2-Phenylbutane (sec-Butylbenzene)	mg/kg	-	-	-	<0.0049	
4-Chlorotoluene	mg/kg	-	-	-	<0.0049	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	-	<0.049	
Acetone	mg/kg	-	-	-	<0.049	
Benzene	mg/kg	-	-	-	<0.0049	
Bromobenzene	mg/kg	-	-	-	<0.0049	
Bromodichloromethane	mg/kg	-	-	-	<0.0049	
Bromoform	mg/kg	-	-	-	<0.0049	
Bromomethane (Methyl bromide)	mg/kg	-	-	-	<0.0099	

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>	<i>B5</i>	<i>B5</i>	<i>B5</i>	<i>Composite</i>
	<i>Sample ID:</i>	SO-2344-B5-5-042312	SO-2344-B5-10-042312	SO-2344-B5-16-042312	SO-2344-COMPOSITE-042512
	<i>Sample Date:</i>	4/23/2012	4/23/2012	4/23/2012	4/25/2012
	<i>Sample Depth:</i>	5 ft BGS	10 ft BGS	16 ft BGS	-
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds (Cont'd.)</i>					
Carbon disulfide	mg/kg	-	-	-	<0.0049
Carbon tetrachloride	mg/kg	-	-	-	<0.0049
Chlorobenzene	mg/kg	-	-	-	<0.0049
Chlorobromomethane	mg/kg	-	-	-	<0.020
Chloroethane	mg/kg	-	-	-	<0.0099
Chloroform (Trichloromethane)	mg/kg	-	-	-	<0.0049
Chloromethane (Methyl chloride)	mg/kg	-	-	-	<0.0099
cis-1,2-Dichloroethene	mg/kg	-	-	-	<0.0049
cis-1,3-Dichloropropene	mg/kg	-	-	-	<0.0049
Cymene (p-Isopropyltoluene)	mg/kg	-	-	-	<0.0049
Dibromochloromethane	mg/kg	-	-	-	<0.0049
Dibromomethane	mg/kg	-	-	-	<0.0099
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	<0.0099
Ethylbenzene	mg/kg	-	-	-	<0.0049
Hexachlorobutadiene	mg/kg	-	-	-	<0.0049
Isopropyl benzene	mg/kg	-	-	-	<0.0049
Methyl tert butyl ether (MTBE)	mg/kg	-	-	-	<0.0049
Methylene chloride	mg/kg	-	-	-	<0.0099
Naphthalene	mg/kg	-	-	-	<0.0099
N-Butylbenzene	mg/kg	-	-	-	<0.0049
N-Propylbenzene	mg/kg	-	-	-	<0.0049
Styrene	mg/kg	-	-	-	<0.0049
tert-Butylbenzene	mg/kg	-	-	-	<0.0049
Tetrachloroethene	mg/kg	-	-	-	<0.0049
Toluene	mg/kg	-	-	-	<0.0049
trans-1,2-Dichloroethene	mg/kg	-	-	-	<0.0049
trans-1,3-Dichloropropene	mg/kg	-	-	-	<0.0049
Trichloroethene	mg/kg	-	-	-	<0.0049
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	<0.0049
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	-	<0.0049
Vinyl acetate	mg/kg	-	-	-	<0.049
Vinyl chloride	mg/kg	-	-	-	<0.0049
Xylenes (total)	mg/kg	-	-	-	<0.0099

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Parameters</i>	<i>Units</i>	<i>Sample Location:</i>			
		<i>B5</i>	<i>B5</i>	<i>B5</i>	<i>Composite</i>
		<i>Sample ID:</i>	<i>Sample ID:</i>	<i>Sample ID:</i>	<i>Sample ID:</i>
		<i>Sample Date:</i>	<i>Sample Date:</i>	<i>Sample Date:</i>	<i>Sample Date:</i>
		<i>Sample Depth:</i>	<i>Sample Depth:</i>	<i>Sample Depth:</i>	<i>Sample Depth:</i>
		<i>5 ft BGS</i>	<i>10 ft BGS</i>	<i>16 ft BGS</i>	<i>-</i>
<i>Semi-volatile Organic Compounds</i>					
1,2,4-Trichlorobenzene	mg/kg	-	-	-	<0.066
1,2-Dichlorobenzene	mg/kg	-	-	-	<0.066
1,3-Dichlorobenzene	mg/kg	-	-	-	<0.066
1,4-Dichlorobenzene	mg/kg	-	-	-	<0.066
2,4,5-Trichlorophenol	mg/kg	-	-	-	<0.066
2,4,6-Trichlorophenol	mg/kg	-	-	-	<0.17
2,4-Dichlorophenol	mg/kg	-	-	-	<0.33
2,4-Dimethylphenol	mg/kg	-	-	-	<0.066
2,4-Dinitrophenol	mg/kg	-	-	-	<0.33
2,4-Dinitrotoluene	mg/kg	-	-	-	<0.066
2,6-Dinitrotoluene	mg/kg	-	-	-	<0.066
2-Chloronaphthalene	mg/kg	-	-	-	<0.066
2-Chlorophenol	mg/kg	-	-	-	<0.066
2-Methylnaphthalene	mg/kg	-	-	-	<0.066
2-Methylphenol	mg/kg	-	-	-	<0.066
2-Nitroaniline	mg/kg	-	-	-	<0.33
2-Nitrophenol	mg/kg	-	-	-	<0.066
3&4-Methylphenol	mg/kg	-	-	-	<0.066
3,3'-Dichlorobenzidine	mg/kg	-	-	-	<0.17
3-Nitroaniline	mg/kg	-	-	-	<0.17
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	<0.33
4-Bromophenyl phenyl ether	mg/kg	-	-	-	<0.17
4-Chloro-3-methylphenol	mg/kg	-	-	-	<0.17
4-Chloroaniline	mg/kg	-	-	-	<0.17
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	<0.17
4-Nitroaniline	mg/kg	-	-	-	<0.33
4-Nitrophenol	mg/kg	-	-	-	<0.33
Acenaphthene	mg/kg	-	-	-	<0.066
Acenaphthylene	mg/kg	-	-	-	<0.066
Anthracene	mg/kg	-	-	-	<0.066
Azobenzene	mg/kg	-	-	-	<0.066
Benzo(a)anthracene	mg/kg	-	-	-	<0.33
Benzo(a)pyrene	mg/kg	-	-	-	<0.066

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>	<i>B5</i>	<i>B5</i>	<i>B5</i>	<i>Composite</i>
	<i>Sample ID:</i>	SO-2344-B5-5-042312	SO-2344-B5-10-042312	SO-2344-B5-16-042312	SO-2344-COMPOSITE-042512
	<i>Sample Date:</i>	4/23/2012	4/23/2012	4/23/2012	4/25/2012
	<i>Sample Depth:</i>	5 ft BGS	10 ft BGS	16 ft BGS	-
<i>Parameters</i>	<i>Units</i>				
<i>Semi-volatile Organic Compounds (Cont'd.)</i>					
Benzo(b)fluoranthene	mg/kg	-	-	-	<0.066
Benzo(g,h,i)perylene	mg/kg	-	-	-	<0.066
Benzo(k)fluoranthene	mg/kg	-	-	-	<0.066
Benzoic acid	mg/kg	-	-	-	<0.33
Benzyl alcohol	mg/kg	-	-	-	<0.17
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	<0.17
bis(2-Chloroethyl)ether	mg/kg	-	-	-	<0.066
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	<0.33
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	<0.17
Chrysene	mg/kg	-	-	-	<0.066
Dibenz(a,h)anthracene	mg/kg	-	-	-	<0.066
Dibenzofuran	mg/kg	-	-	-	<0.066
Diethyl phthalate	mg/kg	-	-	-	<0.17
Dimethyl phthalate	mg/kg	-	-	-	<0.17
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	<0.17
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	<0.17
Fluoranthene	mg/kg	-	-	-	<0.066
Fluorene	mg/kg	-	-	-	<0.066
Hexachlorobenzene	mg/kg	-	-	-	<0.066
Hexachlorobutadiene	mg/kg	-	-	-	<0.066
Hexachlorocyclopentadiene	mg/kg	-	-	-	<0.17
Hexachloroethane	mg/kg	-	-	-	<0.066
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	<0.066
Isophorone	mg/kg	-	-	-	<0.066
Naphthalene	mg/kg	-	-	-	<0.066
Nitrobenzene	mg/kg	-	-	-	<0.066
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	<0.066
N-Nitrosodiphenylamine	mg/kg	-	-	-	<0.066
Pentachlorophenol	mg/kg	-	-	-	<0.33
Phenanthrene	mg/kg	-	-	-	<0.066
Phenol	mg/kg	-	-	-	<0.066
Pyrene	mg/kg	-	-	-	<0.066

TABLE 1A

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>	<i>B5</i>	<i>B5</i>	<i>B5</i>	<i>Composite</i>
	<i>Sample ID:</i>	<i>SO-2344-B5-5-042312</i>	<i>SO-2344-B5-10-042312</i>	<i>SO-2344-B5-16-042312</i>	<i>SO-2344-COMPOSITE-042512</i>
	<i>Sample Date:</i>	<i>4/23/2012</i>	<i>4/23/2012</i>	<i>4/23/2012</i>	<i>4/25/2012</i>
	<i>Sample Depth:</i>	<i>5 ft BGS</i>	<i>10 ft BGS</i>	<i>16 ft BGS</i>	<i>-</i>
<i>Parameters</i>	<i>Units</i>				
<i>Semi-volatile Organic Compounds-SIM</i>					
Acenaphthene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Acenaphthylene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Anthracene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Benzo(a)anthracene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Benzo(a)pyrene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Benzo(b)fluoranthene	mg/kg	<0.0050	0.0052	<0.0050	<0.0099
Benzo(g,h,i)perylene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Benzo(k)fluoranthene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Chrysene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Dibenz(a,h)anthracene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Fluoranthene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Fluorene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Naphthalene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Phenanthrene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
Pyrene	mg/kg	<0.0050	<0.0049	<0.0050	<0.0099
<i>Metals</i>					
Cadmium	mg/kg	-	-	-	<0.46
Chromium	mg/kg	-	-	-	82
Lead	mg/kg	-	-	-	38
Nickel	mg/kg	-	-	-	120
Zinc	mg/kg	-	-	-	75
<i>Petroleum Products</i>					
Total Petroleum Hydrocarbons (C5-C12) GRO	mg/kg	-	-	-	<0.25
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	mg/kg	<0.99	<1.0	<1.0	120 J
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	mg/kg	<49	<50	<50	<100 UJ

Notes:

- Not analyzed.

J - Estimated.

UJ - Not detected, estimated reporting limit.

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	Sample Location:	B1	B2	B3	B4	B5	B6B	B7B
	Sample ID:	W-2344-B1-042312	W-2344-B2-042312	W-2344-B3-042312	W-2344-B4-042312	W-2344-B5-042312	W-2344-B6B-042412	W-2344-B7B-042412
	Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
Parameters	Units							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-
1,1-Dichloropropene	µg/L	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	µg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/L	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-
1,3-Dichloropropane	µg/L	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-
2,2-Dichloropropane	µg/L	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	-	-
2-Chlorotoluene	µg/L	-	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	µg/L	-	-	-	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-
Benzene	µg/L	-	-	-	-	-	-	-
Bromobenzene	µg/L	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	-	-	-	-	-	-	-
Bromoform	µg/L	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	-	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

		Sample Location:						
		B1	B2	B3	B4	B5	B6B	B7B
		Sample ID: W-2344-B1-042312	W-2344-B2-042312	W-2344-B3-042312	W-2344-B4-042312	W-2344-B5-042312	W-2344-B6B-042412	W-2344-B7B-042412
	Sample Date:	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
Parameters	Units							
Volatile Organic Compounds (Cont'd.)								
Carbon disulfide	µg/L	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-	-	-	-
Chlorobromomethane	µg/L	-	-	-	-	-	-	-
Chloroethane	µg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	µg/L	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	-	-	-
Dibromomethane	µg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-
Isopropyl benzene	µg/L	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-
N-Butylbenzene	µg/L	-	-	-	-	-	-	-
N-Propylbenzene	µg/L	-	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-	-
tert-Butylbenzene	µg/L	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	-	-	-	-
Toluene	µg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/L	-	-	-	-	-	-	-
Vinyl acetate	µg/L	-	-	-	-	-	-	-
Vinyl chloride	µg/L	-	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Sample Location:</i>		B1	B2	B3	B4	B5	B6B	B7B
<i>Sample ID:</i>		W-2344-B1-042312	W-2344-B2-042312	W-2344-B3-042312	W-2344-B4-042312	W-2344-B5-042312	W-2344-B6B-042412	W-2344-B7B-042412
<i>Sample Date:</i>		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
<i>Parameters</i>	<i>Units</i>							
<i>Semi-volatile Organic Compounds</i>								
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-
Azobenzene	µg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Sample Location:</i>		B1	B2	B3	B4	B5	B6B	B7B
<i>Sample ID:</i>		W-2344-B1-042312	W-2344-B2-042312	W-2344-B3-042312	W-2344-B4-042312	W-2344-B5-042312	W-2344-B6B-042412	W-2344-B7B-042412
<i>Sample Date:</i>		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
<i>Parameters</i>	<i>Units</i>							
<i>Semi-volatile Organic Compounds (Cont'd.)</i>								
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-
Benzoic acid	µg/L	-	-	-	-	-	-	-
Benzyl alcohol	µg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Sample Location:</i>		<i>B1</i>	<i>B2</i>	<i>B3</i>	<i>B4</i>	<i>B5</i>	<i>B6B</i>	<i>B7B</i>
<i>Sample ID:</i>		W-2344-B1-042312	W-2344-B2-042312	W-2344-B3-042312	W-2344-B4-042312	W-2344-B5-042312	W-2344-B6B-042412	W-2344-B7B-042412
<i>Sample Date:</i>		4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
<i>Parameters</i>	<i>Units</i>							
<i>Semi-volatile Organic Compounds-SIM</i>								
Acenaphthene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Acenaphthylene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Anthracene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Benzo(a)anthracene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Benzo(a)pyrene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Benzo(b)fluoranthene	µg/L	1.2	1.0	<0.11	<0.12	<0.12	<0.13	<0.13
Benzo(g,h,i)perylene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Benzo(k)fluoranthene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Chrysene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Dibenz(a,h)anthracene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Fluoranthene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Fluorene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Indeno(1,2,3-cd)pyrene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Naphthalene	µg/L	1.7	1.4	<0.11	0.36	<0.12	<0.13	<0.13
Phenanthrene	µg/L	<0.60	<0.62	<0.11	<0.12	<0.12	<0.13	<0.13
Pyrene	µg/L	2.7	2.5	<0.11	0.38	<0.12	<0.13	<0.13
<i>Metals</i>								
Cadmium	µg/L	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/L	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	µg/L	5600	110000	2000	32000	<56	<59	<62
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	µg/L	4700	94000	1900	<1100	<110	<120	<120

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	Sample Location:	B8A	B8B	B9B	B10A	B10B	B11B
		Sample ID: W-2344-B8A-042512	W-2344-B8B-042412	W-2344-B9B-042512	W-2344-B10A-042512	W-2344-B10B-042512	W-2344-B11B-042512
		Sample Date: 4/25/2012	4/24/2012	4/25/2012	4/25/2012	4/25/2012	4/25/2012
Parameters	Units						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	µg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-
1,1-Dichloroethane	µg/L	-	-	-	-	-	-
1,1-Dichloroethene	µg/L	-	-	-	-	-	-
1,1-Dichloropropene	µg/L	-	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/L	-	-	-	-	-	-
1,2,3-Trichloropropane	µg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/L	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-
1,2-Dichloroethane	µg/L	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	-	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/L	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-
1,3-Dichloropropane	µg/L	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-
2,2-Dichloropropane	µg/L	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	-
2-Chlorotoluene	µg/L	-	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	µg/L	-	-	-	-	-	-
4-Chlorotoluene	µg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-
Benzene	µg/L	-	-	-	-	-	-
Bromobenzene	µg/L	-	-	-	-	-	-
Bromodichloromethane	µg/L	-	-	-	-	-	-
Bromoform	µg/L	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>	<i>B8A</i>	<i>B8B</i>	<i>B9B</i>	<i>B10A</i>	<i>B10B</i>	<i>B11B</i>
	<i>Sample ID:</i>	W-2344-B8A-042512	W-2344-B8B-042412	W-2344-B9B-042512	W-2344-B10A-042512	W-2344-B10B-042512	W-2344-B11B-042512
	<i>Sample Date:</i>	4/25/2012	4/24/2012	4/25/2012	4/25/2012	4/25/2012	4/25/2012
<i>Parameters</i>	<i>Units</i>						
<i>Volatile Organic Compounds (Cont'd.)</i>							
Carbon disulfide	µg/L	-	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-
Chlorobenzene	µg/L	-	-	-	-	-	-
Chlorobromomethane	µg/L	-	-	-	-	-	-
Chloroethane	µg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	µg/L	-	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	-	-
Dibromomethane	µg/L	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Isopropyl benzene	µg/L	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	-	-
Methylene chloride	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
N-Butylbenzene	µg/L	-	-	-	-	-	-
N-Propylbenzene	µg/L	-	-	-	-	-	-
Styrene	µg/L	-	-	-	-	-	-
tert-Butylbenzene	µg/L	-	-	-	-	-	-
Tetrachloroethene	µg/L	-	-	-	-	-	-
Toluene	µg/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-
Trichloroethene	µg/L	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/L	-	-	-	-	-	-
Vinyl acetate	µg/L	-	-	-	-	-	-
Vinyl chloride	µg/L	-	-	-	-	-	-
Xylenes (total)	µg/L	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

<i>Parameters</i>	<i>Units</i>	<i>Sample Location:</i>					
		<i>B8A</i>	<i>B8B</i>	<i>B9B</i>	<i>B10A</i>	<i>B10B</i>	<i>B11B</i>
		<i>Sample ID:</i> W-2344-B8A-042512	<i>Sample ID:</i> W-2344-B8B-042412	<i>Sample ID:</i> W-2344-B9B-042512	<i>Sample ID:</i> W-2344-B10A-042512	<i>Sample ID:</i> W-2344-B10B-042512	<i>Sample ID:</i> W-2344-B11B-042512
		<i>Sample Date:</i> 4/25/2012	<i>Sample Date:</i> 4/24/2012	<i>Sample Date:</i> 4/25/2012	<i>Sample Date:</i> 4/25/2012	<i>Sample Date:</i> 4/25/2012	<i>Sample Date:</i> 4/25/2012
<i>Semi-volatile Organic Compounds</i>							
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-
Azobenzene	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>	<i>B8A</i>	<i>B8B</i>	<i>B9B</i>	<i>B10A</i>	<i>B10B</i>	<i>B11B</i>
	<i>Sample ID:</i>	W-2344-B8A-042512	W-2344-B8B-042412	W-2344-B9B-042512	W-2344-B10A-042512	W-2344-B10B-042512	W-2344-B11B-042512
	<i>Sample Date:</i>	4/25/2012	4/24/2012	4/25/2012	4/25/2012	4/25/2012	4/25/2012
<i>Parameters</i>	<i>Units</i>						
<i>Semi-volatile Organic Compounds (Cont'd.)</i>							
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Benzoic acid	µg/L	-	-	-	-	-	-
Benzyl alcohol	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 1B
ANALYTICAL RESULTS SUMMARY
SITE ASSESSMENT
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA
APRIL 2012

<i>Parameters</i>	<i>Units</i>	<i>Sample Location:</i> <i>Sample ID:</i> <i>Sample Date:</i>					
		B8A	B8B	B9B	B10A	B10B	B11B
		W-2344-B8A-042512	W-2344-B8B-042412	W-2344-B9B-042512	W-2344-B10A-042512	W-2344-B10B-042512	W-2344-B11B-042512
		4/25/2012	4/24/2012	4/25/2012	4/25/2012	4/25/2012	4/25/2012
<i>Semi-volatile Organic Compounds-SIM</i>							
Acenaphthene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Acenaphthylene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Anthracene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Benzo(a)anthracene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Benzo(a)pyrene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Benzo(b)fluoranthene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Benzo(g,h,i)perylene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Benzo(k)fluoranthene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Chrysene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Dibenz(a,h)anthracene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Fluoranthene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Fluorene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Indeno(1,2,3-cd)pyrene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Naphthalene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Phenanthrene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
Pyrene	µg/L	<0.13	<0.13	<0.12	<0.11	<0.13	<0.13
<i>Metals</i>							
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-
<i>Petroleum Products</i>							
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/L	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	µg/L	<62	<62	<61	<58	<62	<62
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	µg/L	<120	<120	<120	<120	<120	<120

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>			
	<i>B12A</i>		<i>B12B</i>	
	<i>Sample ID:</i>	<i>W-2344-B12A-042512</i>	<i>W-2344-B12B-042512</i>	<i>Composite</i>
	<i>Sample Date:</i>	<i>4/25/2012</i>	<i>4/25/2012</i>	<i>4/25/2012</i>
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1,2-Tetrachloroethane	µg/L	-	-	<0.50
1,1,1-Trichloroethane	µg/L	-	-	<0.50
1,1,2,2-Tetrachloroethane	µg/L	-	-	<0.50
1,1,2-Trichloroethane	µg/L	-	-	<0.50
1,1-Dichloroethane	µg/L	-	-	<0.50
1,1-Dichloroethene	µg/L	-	-	<0.50
1,1-Dichloropropene	µg/L	-	-	<0.50
1,2,3-Trichlorobenzene	µg/L	-	-	<1.0
1,2,3-Trichloropropane	µg/L	-	-	<0.50
1,2,4-Trichlorobenzene	µg/L	-	-	<1.0
1,2,4-Trimethylbenzene	µg/L	-	-	<0.50
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	<1.0
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	<0.50
1,2-Dichlorobenzene	µg/L	-	-	<0.50
1,2-Dichloroethane	µg/L	-	-	<0.50
1,2-Dichloropropane	µg/L	-	-	<0.50
1,3,5-Trimethylbenzene	µg/L	-	-	<0.50
1,3-Dichlorobenzene	µg/L	-	-	<0.50
1,3-Dichloropropane	µg/L	-	-	<1.0
1,4-Dichlorobenzene	µg/L	-	-	<0.50
2,2-Dichloropropane	µg/L	-	-	<0.50
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	<50
2-Chlorotoluene	µg/L	-	-	<0.50
2-Hexanone	µg/L	-	-	<50
2-Phenylbutane (sec-Butylbenzene)	µg/L	-	-	<1.0
4-Chlorotoluene	µg/L	-	-	<0.50
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	<50
Acetone	µg/L	-	-	<50
Benzene	µg/L	-	-	<0.50
Bromobenzene	µg/L	-	-	<1.0
Bromodichloromethane	µg/L	-	-	<0.50
Bromoform	µg/L	-	-	<1.0
Bromomethane (Methyl bromide)	µg/L	-	-	<1.0

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>			
	<i>Sample ID:</i>	B12A	B12B	<i>Composite</i>
	<i>Sample Date:</i>	W-2344-B12A-042512	W-2344-B12B-042512	W-2344-COMPOSITE-042512
		4/25/2012	4/25/2012	4/25/2012
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds (Cont'd.)</i>				
Carbon disulfide	µg/L	-	-	<5.0
Carbon tetrachloride	µg/L	-	-	<0.50
Chlorobenzene	µg/L	-	-	<0.50
Chlorobromomethane	µg/L	-	-	<1.0
Chloroethane	µg/L	-	-	<1.0
Chloroform (Trichloromethane)	µg/L	-	-	<1.0
Chloromethane (Methyl chloride)	µg/L	-	-	<1.0
cis-1,2-Dichloroethene	µg/L	-	-	<0.50
cis-1,3-Dichloropropene	µg/L	-	-	<0.50
Cymene (p-Isopropyltoluene)	µg/L	-	-	<1.0
Dibromochloromethane	µg/L	-	-	<0.50
Dibromomethane	µg/L	-	-	<0.50
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	<0.50
Ethylbenzene	µg/L	-	-	<0.50
Hexachlorobutadiene	µg/L	-	-	<1.0
Isopropyl benzene	µg/L	-	-	<0.50
Methyl tert butyl ether (MTBE)	µg/L	-	-	<0.50
Methylene chloride	µg/L	-	-	<5.0
Naphthalene	µg/L	-	-	1.4
N-Butylbenzene	µg/L	-	-	<1.0
N-Propylbenzene	µg/L	-	-	<1.0
Styrene	µg/L	-	-	<0.50
tert-Butylbenzene	µg/L	-	-	<1.0
Tetrachloroethene	µg/L	-	-	<0.50
Toluene	µg/L	-	-	<0.50
trans-1,2-Dichloroethene	µg/L	-	-	<0.50
trans-1,3-Dichloropropene	µg/L	-	-	<0.50
Trichloroethene	µg/L	-	-	<0.50
Trichlorofluoromethane (CFC-11)	µg/L	-	-	<1.0
Trifluorotrichloroethane (Freon 113)	µg/L	-	-	<0.50
Vinyl acetate	µg/L	-	-	<10
Vinyl chloride	µg/L	-	-	<0.50
Xylenes (total)	µg/L	-	-	<1.0

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	Sample Location:		B12A	B12B	Composite
	Sample ID:	W-2344-B12A-042512	W-2344-B12B-042512	W-2344-COMPOSITE-042512	
	Sample Date:	4/25/2012	4/25/2012	4/25/2012	
Parameters	Units				
Semi-volatile Organic Compounds					
1,2,4-Trichlorobenzene	µg/L	-	-	<2.2	
1,2-Dichlorobenzene	µg/L	-	-	<2.2	
1,3-Dichlorobenzene	µg/L	-	-	<2.2	
1,4-Dichlorobenzene	µg/L	-	-	<2.2	
2,4,5-Trichlorophenol	µg/L	-	-	<4.4	
2,4,6-Trichlorophenol	µg/L	-	-	<2.2	
2,4-Dichlorophenol	µg/L	-	-	<5.5	
2,4-Dimethylphenol	µg/L	-	-	<3.3	
2,4-Dinitrophenol	µg/L	-	-	<11	
2,4-Dinitrotoluene	µg/L	-	-	<4.4	
2,6-Dinitrotoluene	µg/L	-	-	<5.5	
2-Chloronaphthalene	µg/L	-	-	<4.4	
2-Chlorophenol	µg/L	-	-	<4.4	
2-Methylnaphthalene	µg/L	-	-	<2.2	
2-Methylphenol	µg/L	-	-	<4.4	
2-Nitroaniline	µg/L	-	-	<11	
2-Nitrophenol	µg/L	-	-	<2.2	
3,3'-Dichlorobenzidine	µg/L	-	-	<5.5	
3-Nitroaniline	µg/L	-	-	<5.5	
4,6-Dinitro-2-methylphenol	µg/L	-	-	<11	
4-Bromophenyl phenyl ether	µg/L	-	-	<5.5	
4-Chloro-3-methylphenol	µg/L	-	-	<5.5	
4-Chloroaniline	µg/L	-	-	<2.2	
4-Chlorophenyl phenyl ether	µg/L	-	-	<5.5	
4-Methylphenol	µg/L	-	-	<8.8	
4-Nitroaniline	µg/L	-	-	<11	
4-Nitrophenol	µg/L	-	-	<11	
Acenaphthene	µg/L	-	-	<2.2	
Acenaphthylene	µg/L	-	-	<4.4	
Anthracene	µg/L	-	-	<2.2	
Azobenzene	µg/L	-	-	<2.2	
Benzo(a)anthracene	µg/L	-	-	<5.5	
Benzo(a)pyrene	µg/L	-	-	<2.2	

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>			
	<i>Sample ID:</i>	<i>B12A</i>	<i>B12B</i>	<i>Composite</i>
	<i>Sample Date:</i>	<i>W-2344-B12A-042512</i>	<i>W-2344-B12B-042512</i>	<i>W-2344-COMPOSITE-042512</i>
		<i>4/25/2012</i>	<i>4/25/2012</i>	<i>4/25/2012</i>
<i>Parameters</i>	<i>Units</i>			
<i>Semi-volatile Organic Compounds (Cont'd.)</i>				
Benzo(b)fluoranthene	µg/L	-	-	<2.2
Benzo(g,h,i)perylene	µg/L	-	-	<2.2
Benzo(k)fluoranthene	µg/L	-	-	<2.2
Benzoic acid	µg/L	-	-	<11
Benzyl alcohol	µg/L	-	-	<5.5
bis(2-Chloroethoxy)methane	µg/L	-	-	<5.5
bis(2-Chloroethyl)ether	µg/L	-	-	<2.2
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	<11
Butyl benzylphthalate (BBP)	µg/L	-	-	<5.5
Chrysene	µg/L	-	-	<2.2
Dibenz(a,h)anthracene	µg/L	-	-	<2.2
Dibenzofuran	µg/L	-	-	<4.4
Diethyl phthalate	µg/L	-	-	<5.5
Dimethyl phthalate	µg/L	-	-	<5.5
Di-n-butylphthalate (DBP)	µg/L	-	-	<5.5
Di-n-octyl phthalate (DnOP)	µg/L	-	-	<5.5
Fluoranthene	µg/L	-	-	2.4
Fluorene	µg/L	-	-	<4.4
Hexachlorobenzene	µg/L	-	-	<2.2
Hexachlorobutadiene	µg/L	-	-	<2.2
Hexachlorocyclopentadiene	µg/L	-	-	<5.5
Hexachloroethane	µg/L	-	-	<2.2
Indeno(1,2,3-cd)pyrene	µg/L	-	-	<2.2
Isophorone	µg/L	-	-	<4.4
Naphthalene	µg/L	-	-	<2.2
Nitrobenzene	µg/L	-	-	<2.2
N-Nitrosodi-n-propylamine	µg/L	-	-	<2.2
N-Nitrosodiphenylamine	µg/L	-	-	<2.2
Pentachlorophenol	µg/L	-	-	<11
Phenanthrene	µg/L	-	-	6.5
Phenol	µg/L	-	-	<2.2
Pyrene	µg/L	-	-	<2.2

TABLE 1B

ANALYTICAL RESULTS SUMMARY

SITE ASSESSMENT

2 FOURTH STREET AND 34 SIXTH STREET

SANTA ROSA, CALIFORNIA

APRIL 2012

	<i>Sample Location:</i>		<i>B12A</i>	<i>B12B</i>	<i>Composite</i>
	<i>Sample ID:</i>		W-2344-B12A-042512	W-2344-B12B-042512	W-2344-COMPOSITE-042512
	<i>Sample Date:</i>		4/25/2012	4/25/2012	4/25/2012
<i>Parameters</i>	<i>Units</i>				
<i>Semi-volatile Organic Compounds-SIM</i>					
Acenaphthene	µg/L	<0.12	<0.13	0.81	
Acenaphthylene	µg/L	<0.12	<0.13	0.74	
Anthracene	µg/L	<0.12	<0.13	1.1	
Benzo(a)anthracene	µg/L	<0.12	<0.13	0.11	
Benzo(a)pyrene	µg/L	<0.12	<0.13	<0.11	
Benzo(b)fluoranthene	µg/L	<0.12	<0.13	<0.11	
Benzo(g,h,i)perylene	µg/L	<0.12	<0.13	<0.11	
Benzo(k)fluoranthene	µg/L	<0.12	<0.13	<0.11	
Chrysene	µg/L	<0.12	<0.13	<0.11	
Dibenz(a,h)anthracene	µg/L	<0.12	<0.13	<0.11	
Fluoranthene	µg/L	<0.12	<0.13	1.6	
Fluorene	µg/L	<0.12	<0.13	1.3	
Indeno(1,2,3-cd)pyrene	µg/L	<0.12	<0.13	<0.11	
Naphthalene	µg/L	<0.12	<0.13	1.1	
Phenanthrene	µg/L	<0.12	<0.13	7.3	
Pyrene	µg/L	<0.12	<0.13	1.2	
<i>Metals</i>					
Cadmium	µg/L	-	-	<2.5	
Chromium	µg/L	-	-	38	
Lead	µg/L	-	-	5.1	
Nickel	µg/L	-	-	<10	
Zinc	µg/L	-	-	25	
<i>Petroleum Products</i>					
Total Petroleum Hydrocarbons (C5-C12) GRO	µg/L	-	-	180	
Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	µg/L	<57	<61	<57	
Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	µg/L	<110	<120	<110	

Notes:

- Not analyzed.

TABLE 2

QUALIFIED SAMPLE DATA DUE TO OUTLYING SURROGATE RECOVERIES
SITE ASSESSMENT
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA
APRIL 2012

<i>Parameter</i>	<i>Surrogate</i>	<i>Surrogate Recovery (percent)</i>	<i>Control Limits (percent)</i>	<i>Sample ID</i>	<i>Analytes</i>	<i>Qualified Sample Results</i>	<i>Units</i>
SW8015D	p-Terphenyl	36	38-148	SO-2344-COMPOSITE-042512	Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	120 J	mg/kg
SW8015D	p-Terphenyl	36	38-148	SO-2344-COMPOSITE-042512	Total Petroleum Hydrocarbons (C24-C36) Motor Oil (Silica Gel)	100 UJ	mg/kg

Notes:

J Estimated.
 UJ Not detected, estimated reporting limit.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SITE ASSESSMENT
2 FOURTH STREET AND 34 SIXTH STREET
SANTA ROSA, CALIFORNIA
APRIL 2012

<i>Parameter</i>	<i>Associated Sample ID</i>	<i>Analyte</i>	<i>MS Recovery (percent)</i>	<i>MSD Recovery (percent)</i>	<i>RPD</i>	<i>Control Limits</i>		<i>Qualified Sample Result</i>	<i>Units</i>
						<i>Recovery (percent)</i>	<i>RPD (percent)</i>		
SW8015D	SO-2344-COMPOSITE-042512	Total Petroleum Hydrocarbons (C10-C28) DRO (Silica Gel)	42	139	41	50-150	35	120 J	mg/kg

Notes:

MS Matrix Spike.
 MSD Matrix Spike Duplicate.
 RPD Relative Percent Difference.
 J Estimated.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-41840-1

Client Project/Site: UPRR- Santa Rosa

Revision: 1

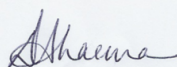
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

5/10/2012 4:41:53 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Job ID: 720-41840-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-41840-1

Comments

The report is revised to change units to mg/Kg.

Receipt

The samples were received on 4/26/2012 6:20 PM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.60 C, 1.40 C, 1.60 C, 2.20 C, 2.90 C, 3.10 C and 3.90 C.

Except:

No project name on the COC. Sample times not specified with AM or PM, logged all samples collected after 12:00 as PM.
Received one of four amber 1L's for W-2344-B4-042312 @ 4:45 half full.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): #17. The container labels list W-2344-B3-042312 @ 4:00. The COC lists W-2344-B2-042312 @ 4:00. Logged using sample ID because there is a B2 @ 3:45 water #16.

Received (#22) 2 of 4 1L's for B6B @ 11:45 water were labeled B6, logged by COC all 4 1L's as B6B.

Received (#23) 3 of 4 1L's for B7B @ 1:21 water were labeled B7, logged by COC all 4 1L's as B7B.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: W-2344-B1-042312 (720-41840-15), W-2344-B2-042312 (720-41840-16). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Surrogate recovery for the following sample was outside control limits: W-2344-B1-042312 (720-41840-15), W-2344-B2-042312 (720-41840-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-B4-12'-042312 (720-41840-13). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-B1-10'-042312 (720-41840-5), SO-2344-B1-5'-042312 (720-41840-1), SO-2344-B2-11'-042312 (720-41840-7), SO-2344-B4-5'-042312 (720-41840-9), SO-2344-COMPOSITE-042512 (720-41839-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method 8015B: The continuing calibration verification (CCV) associated with batch 112671 recovered above the upper control limit for MO c24-c36. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: W-2344-B12B-042512 (720-41840-30), W-2344-B8A-042512 (720-41840-31).

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: W-2344-B2-042312 (720-41840-16), W-2344-B4-042312 (720-41840-20).

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: SO-2344-B2-11'-042312 (720-41840-7), SO-2344-B4-12'-042312 (720-41840-13).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B1-5'-042312

Lab Sample ID: 720-41840-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.035		0.025		mg/Kg	5		8270C SIM	Total/NA
Fluoranthene	0.027		0.025		mg/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	15		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	51		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B2-5'-042312

Lab Sample ID: 720-41840-2

No Detections

Client Sample ID: SO-2344-B1-16'-042312

Lab Sample ID: 720-41840-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	49		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B1-10'-042312

Lab Sample ID: 720-41840-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	25		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	87		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B3-5'-042312

Lab Sample ID: 720-41840-6

No Detections

Client Sample ID: SO-2344-B2-11'-042312

Lab Sample ID: 720-41840-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	240		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	610		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B4-5'-042312

Lab Sample ID: 720-41840-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	77		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B3-15.5'-042312

Lab Sample ID: 720-41840-10

No Detections

Client Sample ID: SO-2344-B3-12'-042312

Lab Sample ID: 720-41840-11

No Detections

Client Sample ID: SO-2344-B5-5'-042312

Lab Sample ID: 720-41840-12

No Detections

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B4-12'-042312

Lab Sample ID: 720-41840-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.020		0.0099		mg/Kg	2		8270C SIM	Total/NA
Pyrene	0.017		0.0099		mg/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	810		9.9		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B4-16'-042312

Lab Sample ID: 720-41840-14

No Detections

Client Sample ID: W-2344-B1-042312

Lab Sample ID: 720-41840-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.7		0.60		ug/L	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	1.2		0.60		ug/L	5		8270C SIM	Total/NA
Pyrene	2.7		0.60		ug/L	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	5600		54		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4700		110		ug/L	1		8015B	Silica Gel Cleanup

Client Sample ID: W-2344-B2-042312

Lab Sample ID: 720-41840-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.4		0.62		ug/L	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	1.0		0.62		ug/L	5		8270C SIM	Total/NA
Pyrene	2.5		0.62		ug/L	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110000		1200		ug/L	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	94000		2500		ug/L	20		8015B	Silica Gel Cleanup

Client Sample ID: W-2344-B3-042312

Lab Sample ID: 720-41840-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2000		62		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1900		120		ug/L	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-B5-16'-042312

Lab Sample ID: 720-41840-18

No Detections

Client Sample ID: SO-2344-B5-10'-042312

Lab Sample ID: 720-41840-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0052		0.0049		mg/Kg	1		8270C SIM	Total/NA

Client Sample ID: W-2344-B4-042312

Lab Sample ID: 720-41840-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.36		0.12		ug/L	1		8270C SIM	Total/NA
Pyrene	0.38		0.12		ug/L	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	32000		540		ug/L	10		8015B	Silica Gel Cleanup

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B5-042312

Lab Sample ID: 720-41840-21

No Detections

Client Sample ID: W-2344-B6B-042412

Lab Sample ID: 720-41840-22

No Detections

Client Sample ID: W-2344-B7B-042412

Lab Sample ID: 720-41840-23

No Detections

Client Sample ID: W-2344-B8B-042412

Lab Sample ID: 720-41840-24

No Detections

Client Sample ID: W-2344-B9B-042512

Lab Sample ID: 720-41840-25

No Detections

Client Sample ID: W-2344-B10A-042512

Lab Sample ID: 720-41840-26

No Detections

Client Sample ID: W-2344-B10B-042512

Lab Sample ID: 720-41840-27

No Detections

Client Sample ID: W-2344-B11B-042512

Lab Sample ID: 720-41840-28

No Detections

Client Sample ID: W-2344-B12A-042512

Lab Sample ID: 720-41840-29

No Detections

Client Sample ID: W-2344-B12B-042512

Lab Sample ID: 720-41840-30

No Detections

Client Sample ID: W-2344-B8A-042512

Lab Sample ID: 720-41840-31

No Detections

Client Sample ID: SO-2344-B2-14'-042312

Lab Sample ID: 720-41840-32

No Detections

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B1-5'-042312

Lab Sample ID: 720-41840-1

Date Collected: 04/23/12 10:50

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Acenaphthylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Benzo[a]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Benzo[a]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Benzo[b]fluoranthene	0.035		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Benzo[g,h,i]perylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Benzo[k]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Chrysene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Dibenz[a,h]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Fluoranthene	0.027		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Fluorene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Indeno[1,2,3-cd]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Naphthalene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Phenanthrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120				04/30/12 13:01	05/07/12 16:29	5
Terphenyl-d14	75		35 - 146				04/30/12 13:01	05/07/12 16:29	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15		1.0		mg/Kg		05/03/12 10:30	05/04/12 17:19	1
Motor Oil Range Organics [C24-C36]	51		50		mg/Kg		05/03/12 10:30	05/04/12 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1				05/03/12 10:30	05/04/12 17:19	1
p-Terphenyl	61		38 - 148				05/03/12 10:30	05/04/12 17:19	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B2-5'-042312

Lab Sample ID: 720-41840-2

Date Collected: 04/23/12 11:39

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		33 - 120				04/30/12 13:01	05/05/12 23:23	1
Terphenyl-d14	80		35 - 146				04/30/12 13:01	05/05/12 23:23	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/03/12 10:30	05/04/12 17:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/03/12 10:30	05/04/12 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1				05/03/12 10:30	05/04/12 17:43	1
p-Terphenyl	81		38 - 148				05/03/12 10:30	05/04/12 17:43	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B1-16'-042312

Lab Sample ID: 720-41840-4

Date Collected: 04/23/12 11:54

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/05/12 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		33 - 120				04/30/12 13:01	05/05/12 23:46	1
Terphenyl-d14	84		35 - 146				04/30/12 13:01	05/05/12 23:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	49		1.0		mg/Kg		05/03/12 10:30	05/04/12 14:35	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/03/12 10:30	05/04/12 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/03/12 10:30	05/04/12 14:35	1
p-Terphenyl	82		38 - 148				05/03/12 10:30	05/04/12 14:35	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B1-10'-042312

Lab Sample ID: 720-41840-5

Date Collected: 04/23/12 12:04

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Acenaphthylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Benzo[a]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Benzo[a]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Benzo[b]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Benzo[g,h,i]perylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Benzo[k]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Chrysene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Dibenz[a,h]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Fluorene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Indeno[1,2,3-cd]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Naphthalene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Phenanthrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 16:52	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		33 - 120				04/30/12 13:01	05/07/12 16:52	5
Terphenyl-d14	66		35 - 146				04/30/12 13:01	05/07/12 16:52	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		1.0		mg/Kg		05/03/12 10:30	05/04/12 14:58	1
Motor Oil Range Organics [C24-C36]	87		50		mg/Kg		05/03/12 10:30	05/04/12 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 1				05/03/12 10:30	05/04/12 14:58	1
p-Terphenyl	66		38 - 148				05/03/12 10:30	05/04/12 14:58	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B3-5'-042312

Lab Sample ID: 720-41840-6

Date Collected: 04/23/12 12:13

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Acenaphthylene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Benzo[a]anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Benzo[a]pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Benzo[b]fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Benzo[g,h,i]perylene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Benzo[k]fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Chrysene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Dibenz[a,h]anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Fluorene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Indeno[1,2,3-cd]pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Naphthalene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Phenanthrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120				04/30/12 13:01	05/06/12 00:10	1
Terphenyl-d14	81		35 - 146				04/30/12 13:01	05/06/12 00:10	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/03/12 10:30	05/04/12 15:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/03/12 10:30	05/04/12 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1				05/03/12 10:30	05/04/12 15:22	1
p-Terphenyl	96		38 - 148				05/03/12 10:30	05/04/12 15:22	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B2-11'-042312

Lab Sample ID: 720-41840-7

Date Collected: 04/23/12 13:17

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Acenaphthylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Benzo[a]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Benzo[a]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Benzo[b]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Benzo[g,h,i]perylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Benzo[k]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Chrysene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Dibenz[a,h]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Fluorene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Indeno[1,2,3-cd]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Naphthalene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Phenanthrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:16	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		33 - 120				04/30/12 13:01	05/07/12 17:16	5
Terphenyl-d14	79		35 - 146				04/30/12 13:01	05/07/12 17:16	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		4.9		mg/Kg		05/03/12 10:30	05/05/12 20:35	5
Motor Oil Range Organics [C24-C36]	610		250		mg/Kg		05/03/12 10:30	05/05/12 20:35	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/03/12 10:30	05/05/12 20:35	5
p-Terphenyl	0	X D	38 - 148				05/03/12 10:30	05/05/12 20:35	5

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B4-5'-042312

Lab Sample ID: 720-41840-9

Date Collected: 04/23/12 13:41

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Acenaphthylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Benzo[a]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Benzo[a]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Benzo[b]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Benzo[g,h,i]perylene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Benzo[k]fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Chrysene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Dibenz[a,h]anthracene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Fluoranthene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Fluorene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Indeno[1,2,3-cd]pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Naphthalene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Phenanthrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Pyrene	ND		0.025		mg/Kg		04/30/12 13:01	05/07/12 17:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		33 - 120				04/30/12 13:01	05/07/12 17:39	5
Terphenyl-d14	74		35 - 146				04/30/12 13:01	05/07/12 17:39	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	77		3.0		mg/Kg		05/03/12 10:30	05/05/12 20:59	3
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg		05/03/12 10:30	05/05/12 20:59	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/03/12 10:30	05/05/12 20:59	3
p-Terphenyl	102		38 - 148				05/03/12 10:30	05/05/12 20:59	3

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B3-15.5'-042312

Lab Sample ID: 720-41840-10

Date Collected: 04/23/12 14:16

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Acenaphthylene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Benzo[a]anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Benzo[a]pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Benzo[b]fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Benzo[g,h,i]perylene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Benzo[k]fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Chrysene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Dibenz[a,h]anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Fluorene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Naphthalene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Phenanthrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/06/12 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120				04/30/12 13:01	05/06/12 00:33	1
Terphenyl-d14	77		35 - 146				04/30/12 13:01	05/06/12 00:33	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/03/12 10:30	05/04/12 16:32	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/03/12 10:30	05/04/12 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.08		0 - 1				05/03/12 10:30	05/04/12 16:32	1
p-Terphenyl	89		38 - 148				05/03/12 10:30	05/04/12 16:32	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B3-12'-042312

Lab Sample ID: 720-41840-11

Date Collected: 04/23/12 14:22

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		33 - 120				04/30/12 13:01	05/07/12 13:20	1
Terphenyl-d14	83		35 - 146				04/30/12 13:01	05/07/12 13:20	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/03/12 10:30	05/04/12 16:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/03/12 10:30	05/04/12 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1				05/03/12 10:30	05/04/12 16:56	1
p-Terphenyl	96		38 - 148				05/03/12 10:30	05/04/12 16:56	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B5-5'-042312

Lab Sample ID: 720-41840-12

Date Collected: 04/23/12 15:06

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		33 - 120				04/30/12 13:01	05/07/12 13:43	1
Terphenyl-d14	77		35 - 146				04/30/12 13:01	05/07/12 13:43	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		05/03/12 10:30	05/04/12 17:19	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		05/03/12 10:30	05/04/12 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.003		0 - 1				05/03/12 10:30	05/04/12 17:19	1
p-Terphenyl	88		38 - 148				05/03/12 10:30	05/04/12 17:19	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B4-12'-042312

Lab Sample ID: 720-41840-13

Date Collected: 04/23/12 15:22

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Acenaphthylene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Anthracene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Benzo[a]anthracene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Benzo[a]pyrene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Benzo[b]fluoranthene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Benzo[g,h,i]perylene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Benzo[k]fluoranthene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Chrysene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Dibenz[a,h]anthracene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Fluoranthene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Fluorene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Indeno[1,2,3-cd]pyrene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Naphthalene	0.020		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Phenanthrene	ND		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Pyrene	0.017		0.0099		mg/Kg		04/30/12 13:01	05/07/12 14:07	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		33 - 120				04/30/12 13:01	05/07/12 14:07	2
Terphenyl-d14	76		35 - 146				04/30/12 13:01	05/07/12 14:07	2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	810		9.9		mg/Kg		05/03/12 10:30	05/05/12 21:22	10
Motor Oil Range Organics [C24-C36]	ND		500		mg/Kg		05/03/12 10:30	05/05/12 21:22	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/03/12 10:30	05/05/12 21:22	10
p-Terphenyl	0	X D	38 - 148				05/03/12 10:30	05/05/12 21:22	10

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B4-16'-042312

Lab Sample ID: 720-41840-14

Date Collected: 04/23/12 15:25

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120				04/30/12 13:01	05/07/12 14:30	1
Terphenyl-d14	81		35 - 146				04/30/12 13:01	05/07/12 14:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		05/04/12 10:50	05/05/12 16:28	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/04/12 10:50	05/05/12 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.05		0 - 1				05/04/12 10:50	05/05/12 16:28	1
p-Terphenyl	80		38 - 148				05/04/12 10:50	05/05/12 16:28	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B1-042312

Lab Sample ID: 720-41840-15

Date Collected: 04/23/12 15:30

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.7		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Acenaphthene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Acenaphthylene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Fluorene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Phenanthrene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Anthracene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Benzo[a]anthracene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Chrysene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Benzo[a]pyrene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Benzo[b]fluoranthene	1.2		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Benzo[k]fluoranthene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Benzo[g,h,i]perylene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Indeno[1,2,3-cd]pyrene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Fluoranthene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Pyrene	2.7		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Dibenz(a,h)anthracene	ND		0.60		ug/L		04/27/12 18:27	05/02/12 20:07	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	15	X	29 - 120				04/27/12 18:27	05/02/12 20:07	5
Terphenyl-d14	13	X	45 - 120				04/27/12 18:27	05/02/12 20:07	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5600		54		ug/L		04/27/12 14:09	04/30/12 14:49	1
Motor Oil Range Organics [C24-C36]	4700		110		ug/L		04/27/12 14:09	04/30/12 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	2		0 - 5				04/27/12 14:09	04/30/12 14:49	1
p-Terphenyl	45		31 - 150				04/27/12 14:09	04/30/12 14:49	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B2-042312

Lab Sample ID: 720-41840-16

Date Collected: 04/23/12 15:45

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1.4		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Acenaphthene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Acenaphthylene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Fluorene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Phenanthrene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Anthracene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Benzo[a]anthracene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Chrysene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Benzo[a]pyrene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Benzo[b]fluoranthene	1.0		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Benzo[k]fluoranthene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Benzo[g,h,i]perylene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Indeno[1,2,3-cd]pyrene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Fluoranthene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Pyrene	2.5		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Dibenz(a,h)anthracene	ND		0.62		ug/L		04/27/12 18:27	05/02/12 20:31	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	17	X	29 - 120				04/27/12 18:27	05/02/12 20:31	5
Terphenyl-d14	14	X	45 - 120				04/27/12 18:27	05/02/12 20:31	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110000		1200		ug/L		04/27/12 14:09	04/30/12 15:12	20
Motor Oil Range Organics [C24-C36]	94000		2500		ug/L		04/27/12 14:09	04/30/12 15:12	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				04/27/12 14:09	04/30/12 15:12	20
p-Terphenyl	0	X D	31 - 150				04/27/12 14:09	04/30/12 15:12	20

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B3-042312

Lab Sample ID: 720-41840-17

Date Collected: 04/23/12 16:00

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Acenaphthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Acenaphthylene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Fluorene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Phenanthrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Anthracene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Benzo[a]anthracene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Chrysene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Benzo[a]pyrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Benzo[b]fluoranthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Benzo[k]fluoranthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Fluoranthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Pyrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Dibenz[a,h]anthracene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		29 - 120				04/27/12 18:27	04/30/12 20:15	1
Terphenyl-d14	48		45 - 120				04/27/12 18:27	04/30/12 20:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2000		62		ug/L		04/27/12 14:09	04/30/12 15:36	1
Motor Oil Range Organics [C24-C36]	1900		120		ug/L		04/27/12 14:09	04/30/12 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				04/27/12 14:09	04/30/12 15:36	1
p-Terphenyl	102		31 - 150				04/27/12 14:09	04/30/12 15:36	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B5-16'-042312

Lab Sample ID: 720-41840-18

Date Collected: 04/23/12 16:26

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		33 - 120				04/30/12 13:01	05/07/12 14:54	1
Terphenyl-d14	77		35 - 146				04/30/12 13:01	05/07/12 14:54	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/04/12 10:50	05/05/12 16:53	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/04/12 10:50	05/05/12 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/04/12 10:50	05/05/12 16:53	1
p-Terphenyl	86		38 - 148				05/04/12 10:50	05/05/12 16:53	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B5-10'-042312

Lab Sample ID: 720-41840-19

Date Collected: 04/23/12 16:28

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Acenaphthylene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Benzo[a]anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Benzo[a]pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Benzo[b]fluoranthene	0.0052		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Benzo[g,h,i]perylene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Benzo[k]fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Chrysene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Dibenz[a,h]anthracene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Fluoranthene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Fluorene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Naphthalene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Phenanthrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Pyrene	ND		0.0049		mg/Kg		04/30/12 13:01	05/07/12 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120				04/30/12 13:01	05/07/12 15:18	1
Terphenyl-d14	77		35 - 146				04/30/12 13:01	05/07/12 15:18	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/04/12 10:50	05/05/12 16:04	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/04/12 10:50	05/05/12 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.05		0 - 1				05/04/12 10:50	05/05/12 16:04	1
p-Terphenyl	78		38 - 148				05/04/12 10:50	05/05/12 16:04	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B4-042312

Lab Sample ID: 720-41840-20

Date Collected: 04/23/12 16:45

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.36		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Acenaphthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Acenaphthylene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Fluorene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Phenanthrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Benzo[a]anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Chrysene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Benzo[a]pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Benzo[b]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Benzo[k]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Benzo[g,h,i]perylene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Indeno[1,2,3-cd]pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Pyrene	0.38		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Dibenz(a,h)anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		29 - 120				04/27/12 18:27	04/30/12 20:39	1
Terphenyl-d14	63		45 - 120				04/27/12 18:27	04/30/12 20:39	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32000		540		ug/L		04/27/12 18:17	04/30/12 12:27	10
Motor Oil Range Organics [C24-C36]	ND		1100		ug/L		04/27/12 18:17	04/30/12 12:27	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				04/27/12 18:17	04/30/12 12:27	10
p-Terphenyl	0	X D	31 - 150				04/27/12 18:17	04/30/12 12:27	10

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B5-042312

Lab Sample ID: 720-41840-21

Date Collected: 04/23/12 17:00

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Acenaphthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Acenaphthylene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Fluorene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Phenanthrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Benzo[a]anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Chrysene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Benzo[a]pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Benzo[b]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Benzo[k]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Benzo[g,h,i]perylene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Indeno[1,2,3-cd]pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Dibenz(a,h)anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		29 - 120				04/27/12 18:27	04/30/12 21:02	1
Terphenyl-d14	58		45 - 120				04/27/12 18:27	04/30/12 21:02	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		56		ug/L		04/27/12 18:17	04/28/12 18:50	1
Motor Oil Range Organics [C24-C36]	ND		110		ug/L		04/27/12 18:17	04/28/12 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.001		0 - 5				04/27/12 18:17	04/28/12 18:50	1
p-Terphenyl	70		31 - 150				04/27/12 18:17	04/28/12 18:50	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B6B-042412

Lab Sample ID: 720-41840-22

Date Collected: 04/24/12 11:45

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		29 - 120				04/27/12 18:27	04/30/12 21:26	1
Terphenyl-d14	72		45 - 120				04/27/12 18:27	04/30/12 21:26	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		59		ug/L		04/27/12 18:17	04/28/12 19:14	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.001		0 - 5				04/27/12 18:17	04/28/12 19:14	1
p-Terphenyl	63		31 - 150				04/27/12 18:17	04/28/12 19:14	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B7B-042412

Lab Sample ID: 720-41840-23

Date Collected: 04/24/12 13:21

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	54		29 - 120				04/27/12 18:27	04/30/12 21:49	1
Terphenyl-d14	64		45 - 120				04/27/12 18:27	04/30/12 21:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		62		ug/L		04/27/12 18:17	04/28/12 19:38	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.0001		0 - 5				04/27/12 18:17	04/28/12 19:38	1
p-Terphenyl	65		31 - 150				04/27/12 18:17	04/28/12 19:38	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B8B-042412

Lab Sample ID: 720-41840-24

Date Collected: 04/24/12 15:16

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		29 - 120				04/27/12 18:27	04/30/12 22:13	1
Terphenyl-d14	57		45 - 120				04/27/12 18:27	04/30/12 22:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		62		ug/L		04/27/12 18:17	04/28/12 20:03	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.005		0 - 5				04/27/12 18:17	04/28/12 20:03	1
p-Terphenyl	51		31 - 150				04/27/12 18:17	04/28/12 20:03	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B9B-042512

Lab Sample ID: 720-41840-25

Date Collected: 04/25/12 08:00

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Acenaphthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Acenaphthylene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Fluorene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Phenanthrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Benzo[a]anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Chrysene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Benzo[a]pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Benzo[b]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Benzo[k]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Benzo[g,h,i]perylene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Indeno[1,2,3-cd]pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Fluoranthene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Pyrene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Dibenz(a,h)anthracene	ND		0.12		ug/L		04/27/12 18:27	04/30/12 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		29 - 120				04/27/12 18:27	04/30/12 22:37	1
Terphenyl-d14	69		45 - 120				04/27/12 18:27	04/30/12 22:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		61		ug/L		04/27/12 18:17	04/28/12 20:27	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.004		0 - 5				04/27/12 18:17	04/28/12 20:27	1
p-Terphenyl	65		31 - 150				04/27/12 18:17	04/28/12 20:27	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B10A-042512

Lab Sample ID: 720-41840-26

Date Collected: 04/25/12 10:00

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Acenaphthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Acenaphthylene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Fluorene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Phenanthrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Anthracene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Benzo[a]anthracene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Chrysene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Benzo[a]pyrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Benzo[b]fluoranthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Benzo[k]fluoranthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Benzo[g,h,i]perylene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Indeno[1,2,3-cd]pyrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Fluoranthene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Pyrene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Dibenz(a,h)anthracene	ND		0.11		ug/L		04/27/12 18:27	04/30/12 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		29 - 120				04/27/12 18:27	04/30/12 23:00	1
Terphenyl-d14	62		45 - 120				04/27/12 18:27	04/30/12 23:00	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		58		ug/L		04/27/12 18:17	04/28/12 20:51	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 5				04/27/12 18:17	04/28/12 20:51	1
p-Terphenyl	73		31 - 150				04/27/12 18:17	04/28/12 20:51	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B10B-042512

Lab Sample ID: 720-41840-27

Date Collected: 04/25/12 11:00

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		29 - 120				04/27/12 18:27	04/30/12 23:24	1
Terphenyl-d14	50		45 - 120				04/27/12 18:27	04/30/12 23:24	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		62		ug/L		04/27/12 18:17	04/28/12 21:16	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5				04/27/12 18:17	04/28/12 21:16	1
p-Terphenyl	53		31 - 150				04/27/12 18:17	04/28/12 21:16	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B11B-042512

Lab Sample ID: 720-41840-28

Date Collected: 04/25/12 12:45

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	04/30/12 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		29 - 120				04/27/12 18:27	04/30/12 23:47	1
Terphenyl-d14	71		45 - 120				04/27/12 18:27	04/30/12 23:47	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		62		ug/L		04/27/12 18:17	04/28/12 21:40	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/28/12 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.003		0 - 5				04/27/12 18:17	04/28/12 21:40	1
p-Terphenyl	58		31 - 150				04/27/12 18:17	04/28/12 21:40	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B12A-042512

Lab Sample ID: 720-41840-29

Date Collected: 04/25/12 15:15

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Acenaphthene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Acenaphthylene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Fluorene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Phenanthrene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Anthracene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Benzo[a]anthracene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Chrysene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Benzo[a]pyrene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Benzo[b]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Benzo[k]fluoranthene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Benzo[g,h,i]perylene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Indeno[1,2,3-cd]pyrene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Fluoranthene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Pyrene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Dibenz(a,h)anthracene	ND		0.12		ug/L		04/27/12 18:27	05/01/12 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		29 - 120				04/27/12 18:27	05/01/12 00:11	1
Terphenyl-d14	72		45 - 120				04/27/12 18:27	05/01/12 00:11	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		57		ug/L		04/27/12 18:17	04/28/12 22:04	1
Motor Oil Range Organics [C24-C36]	ND		110		ug/L		04/27/12 18:17	04/28/12 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5				04/27/12 18:17	04/28/12 22:04	1
p-Terphenyl	74		31 - 150				04/27/12 18:17	04/28/12 22:04	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B12B-042512

Lab Sample ID: 720-41840-30

Date Collected: 04/25/12 15:45

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	46		29 - 120				04/27/12 18:27	05/01/12 21:55	1
Terphenyl-d14	58		45 - 120				04/27/12 18:27	05/01/12 21:55	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		61		ug/L		04/27/12 18:17	04/29/12 00:54	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/29/12 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5				04/27/12 18:17	04/29/12 00:54	1
p-Terphenyl	66		31 - 150				04/27/12 18:17	04/29/12 00:54	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B8A-042512

Lab Sample ID: 720-41840-31

Date Collected: 04/25/12 16:30

Matrix: Water

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Acenaphthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Acenaphthylene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Fluorene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Phenanthrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Anthracene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Benzo[a]anthracene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Chrysene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Benzo[a]pyrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Benzo[b]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Benzo[k]fluoranthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Benzo[g,h,i]perylene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Indeno[1,2,3-cd]pyrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Fluoranthene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Pyrene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Dibenz(a,h)anthracene	ND		0.13		ug/L		04/27/12 18:27	05/01/12 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		29 - 120				04/27/12 18:27	05/01/12 22:18	1
Terphenyl-d14	74		45 - 120				04/27/12 18:27	05/01/12 22:18	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		62		ug/L		04/27/12 18:17	04/29/12 01:19	1
Motor Oil Range Organics [C24-C36]	ND		120		ug/L		04/27/12 18:17	04/29/12 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5				04/27/12 18:17	04/29/12 01:19	1
p-Terphenyl	75		31 - 150				04/27/12 18:17	04/29/12 01:19	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B2-14'-042312

Lab Sample ID: 720-41840-32

Date Collected: 04/23/12 13:22

Matrix: Solid

Date Received: 04/26/12 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Dibenz[a,h]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/07/12 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120				04/30/12 13:01	05/07/12 15:41	1
Terphenyl-d14	95		35 - 146				04/30/12 13:01	05/07/12 15:41	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		05/04/12 10:50	05/05/12 17:17	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		05/04/12 10:50	05/05/12 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/04/12 10:50	05/05/12 17:17	1
p-Terphenyl	82		38 - 148				05/04/12 10:50	05/05/12 17:17	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-112613/1-A

Matrix: Water

Analysis Batch: 112715

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Acenaphthylene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Anthracene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Benzo[a]anthracene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Benzo[a]pyrene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Chrysene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Benzo[b]fluoranthene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Benzo[k]fluoranthene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Fluorene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Fluoranthene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Naphthalene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Phenanthrene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Pyrene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		04/27/12 14:12	04/30/12 16:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		29 - 120	04/27/12 14:12	04/30/12 16:21	1
Terphenyl-d14	86		45 - 120	04/27/12 14:12	04/30/12 16:21	1

Lab Sample ID: LCS 720-112613/2-A

Matrix: Water

Analysis Batch: 112715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	6.88		ug/L		69	37 - 120
Acenaphthylene	10.0	6.77		ug/L		68	36 - 120
Anthracene	10.0	8.22		ug/L		82	45 - 120
Benzo[a]anthracene	10.0	8.32		ug/L		83	48 - 120
Benzo[a]pyrene	10.0	7.49		ug/L		75	50 - 120
Chrysene	10.0	7.66		ug/L		77	40 - 94
Benzo[b]fluoranthene	10.0	8.97		ug/L		90	48 - 120
Benzo[k]fluoranthene	10.0	6.98		ug/L		70	50 - 120
Benzo[g,h,i]perylene	10.0	4.28		ug/L		43	39 - 121
Fluorene	10.0	7.20		ug/L		72	22 - 120
Indeno[1,2,3-cd]pyrene	10.0	4.87		ug/L		49	40 - 126
Fluoranthene	10.0	8.68		ug/L		87	46 - 120
Naphthalene	10.0	6.09		ug/L		61	33 - 120
Phenanthrene	10.0	7.50		ug/L		75	44 - 120
Pyrene	10.0	8.48		ug/L		85	50 - 120
Dibenz(a,h)anthracene	10.0	5.05		ug/L		51	37 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	74		29 - 120
Terphenyl-d14	90		45 - 120

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-112613/3-A

Matrix: Water

Analysis Batch: 112715

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	10.0	7.20		ug/L		72	37 - 120	5	35
Acenaphthylene	10.0	7.06		ug/L		71	36 - 120	4	35
Anthracene	10.0	8.48		ug/L		85	45 - 120	3	35
Benzo[a]anthracene	10.0	8.42		ug/L		84	48 - 120	1	35
Benzo[a]pyrene	10.0	8.07		ug/L		81	50 - 120	7	35
Chrysene	10.0	7.71		ug/L		77	40 - 94	1	35
Benzo[b]fluoranthene	10.0	9.20		ug/L		92	48 - 120	3	35
Benzo[k]fluoranthene	10.0	7.67		ug/L		77	50 - 120	9	35
Benzo[g,h,i]perylene	10.0	4.51		ug/L		45	39 - 121	5	35
Fluorene	10.0	7.49		ug/L		75	22 - 120	4	35
Indeno[1,2,3-cd]pyrene	10.0	5.19		ug/L		52	40 - 126	6	35
Fluoranthene	10.0	8.78		ug/L		88	46 - 120	1	35
Naphthalene	10.0	6.34		ug/L		63	33 - 120	4	35
Phenanthrene	10.0	7.76		ug/L		78	44 - 120	3	35
Pyrene	10.0	8.15		ug/L		82	50 - 120	4	35
Dibenz(a,h)anthracene	10.0	5.40		ug/L		54	37 - 125	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	78		29 - 120
Terphenyl-d14	89		45 - 120

Lab Sample ID: MB 720-112717/1-A

Matrix: Solid

Analysis Batch: 112951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Acenaphthylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Benzo[a]anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Benzo[a]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Chrysene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Benzo[b]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Benzo[k]fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Benzo[g,h,i]perylene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Fluorene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Fluoranthene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Naphthalene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Phenanthrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Pyrene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1
Dibenz(a,h)anthracene	ND		0.0050		mg/Kg		04/30/12 13:01	05/03/12 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		33 - 120	04/30/12 13:01	05/03/12 14:38	1
Terphenyl-d14	94		35 - 146	04/30/12 13:01	05/03/12 14:38	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-112717/2-A

Matrix: Solid

Analysis Batch: 112951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.330	0.247		mg/Kg		75	49 - 120
Acenaphthylene	0.330	0.237		mg/Kg		72	52 - 120
Anthracene	0.330	0.288		mg/Kg		87	52 - 120
Benzo[a]anthracene	0.330	0.280		mg/Kg		85	52 - 120
Benzo[a]pyrene	0.330	0.298		mg/Kg		90	54 - 120
Chrysene	0.330	0.265		mg/Kg		80	40 - 120
Benzo[b]fluoranthene	0.330	0.307		mg/Kg		93	51 - 120
Benzo[k]fluoranthene	0.330	0.274		mg/Kg		83	56 - 120
Benzo[g,h,i]perylene	0.330	0.255		mg/Kg		77	48 - 120
Fluorene	0.330	0.255		mg/Kg		77	52 - 120
Indeno[1,2,3-cd]pyrene	0.330	0.264		mg/Kg		80	48 - 120
Fluoranthene	0.330	0.296		mg/Kg		90	57 - 120
Naphthalene	0.330	0.234		mg/Kg		71	46 - 120
Phenanthrene	0.330	0.261		mg/Kg		79	48 - 120
Pyrene	0.330	0.259		mg/Kg		79	53 - 120
Dibenz(a,h)anthracene	0.330	0.269		mg/Kg		82	50 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	79		33 - 120
Terphenyl-d14	93		35 - 146

Lab Sample ID: LCSD 720-112717/3-A

Matrix: Solid

Analysis Batch: 112951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.332	0.280		mg/Kg		84	49 - 120	12	20
Acenaphthylene	0.332	0.263		mg/Kg		79	52 - 120	10	20
Anthracene	0.332	0.311		mg/Kg		94	52 - 120	7	20
Benzo[a]anthracene	0.332	0.292		mg/Kg		88	52 - 120	4	20
Benzo[a]pyrene	0.332	0.311		mg/Kg		94	54 - 120	4	20
Chrysene	0.332	0.280		mg/Kg		84	40 - 120	6	20
Benzo[b]fluoranthene	0.332	0.316		mg/Kg		95	51 - 120	3	20
Benzo[k]fluoranthene	0.332	0.281		mg/Kg		85	56 - 120	2	20
Benzo[g,h,i]perylene	0.332	0.286		mg/Kg		86	48 - 120	12	20
Fluorene	0.332	0.278		mg/Kg		84	52 - 120	8	20
Indeno[1,2,3-cd]pyrene	0.332	0.291		mg/Kg		88	48 - 120	10	20
Fluoranthene	0.332	0.317		mg/Kg		96	57 - 120	7	20
Naphthalene	0.332	0.259		mg/Kg		78	46 - 120	10	20
Phenanthrene	0.332	0.285		mg/Kg		86	48 - 120	9	20
Pyrene	0.332	0.278		mg/Kg		84	53 - 120	7	20
Dibenz(a,h)anthracene	0.332	0.298		mg/Kg		90	50 - 120	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	88		33 - 120
Terphenyl-d14	97		35 - 146

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-112611/1-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 112611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		04/27/12 14:09	04/29/12 08:35	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		04/27/12 14:09	04/29/12 08:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.001		0 - 5				04/27/12 14:09	04/29/12 08:35	1
p-Terphenyl	82		31 - 150				04/27/12 14:09	04/29/12 08:35	1

Lab Sample ID: LCS 720-112611/2-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 112611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1560		ug/L		62	32 - 119
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
p-Terphenyl	85		31 - 150				

Lab Sample ID: LCSD 720-112611/3-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 112611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1500		ug/L		60	32 - 119	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
p-Terphenyl	80		31 - 150						

Lab Sample ID: MB 720-112631/1-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 112631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		04/27/12 18:17	04/28/12 23:17	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		04/27/12 18:17	04/28/12 23:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5				04/27/12 18:17	04/28/12 23:17	1
p-Terphenyl	82		31 - 150				04/27/12 18:17	04/28/12 23:17	1

Lab Sample ID: LCS 720-112631/2-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 112631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1520		ug/L		61	32 - 119

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-112631/2-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 112631

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	87		31 - 150

Lab Sample ID: LCSD 720-112631/3-A

Matrix: Water

Analysis Batch: 112671

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 112631

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1620		ug/L		65	32 - 119	6	35
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
p-Terphenyl	84		31 - 150						

Lab Sample ID: MB 720-112959/1-A

Matrix: Solid

Analysis Batch: 113010

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 112959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/03/12 10:30	05/04/12 11:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/03/12 10:30	05/04/12 11:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
Capric Acid (Surr)	0.08		0 - 1						
p-Terphenyl	100		38 - 148						

Lab Sample ID: LCS 720-112959/2-A

Matrix: Solid

Analysis Batch: 113010

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 112959

Analysis Data - 1/10/20										Top Data - 1/10/20	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.3	53.6		mg/Kg	-	64	36 - 112		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
p-Terphenyl	94		38 - 148								

Lab Sample ID: LCSD 720-112959/3-A

Matrix: Solid

Analysis Batch: 113010

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 112959

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.8	53.3		mg/Kg		64	36 - 112	1	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
p-Terphenyl	90		38 - 148						

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-113018/1-A

Matrix: Solid

Analysis Batch: 113071

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 113018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		05/04/12 10:50	05/05/12 22:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/04/12 10:50	05/05/12 22:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				05/04/12 10:50	05/05/12 22:58	1
p-Terphenyl	99		38 - 148				05/04/12 10:50	05/05/12 22:58	1

Lab Sample ID: LCS 720-113018/2-A

Matrix: Solid

Analysis Batch: 113071

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 113018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.9	52.7		mg/Kg		64	36 - 112
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
p-Terphenyl	67		38 - 148				

Lab Sample ID: LCSD 720-113018/3-A

Matrix: Solid

Analysis Batch: 113071

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 113018

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	56.4		mg/Kg		68	36 - 112	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
p-Terphenyl	72		38 - 148						

Lab Sample ID: 720-41840-19 MS

Matrix: Solid

Analysis Batch: 113071

Client Sample ID: SO-2344-B5-10'-042312

Prep Type: Silica Gel Cleanup

Prep Batch: 113018

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		82.2	45.9		mg/Kg		55	50 - 150
Surrogate	MS %Recovery	MS Qualifier	Limits						
p-Terphenyl	61		38 - 148						

Lab Sample ID: 720-41840-19 MSD

Matrix: Solid

Analysis Batch: 113071

Client Sample ID: SO-2344-B5-10'-042312

Prep Type: Silica Gel Cleanup

Prep Batch: 113018

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		82.5	51.3		mg/Kg		61	50 - 150	11	35

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-41840-19 MSD

Matrix: Solid

Analysis Batch: 113071

Client Sample ID: SO-2344-B5-10'-042312

Prep Type: Silica Gel Cleanup

Prep Batch: 113018

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
<i>p-Terphenyl</i>	67		38 - 148

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

GC/MS Semi VOA

Prep Batch: 112613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-15	W-2344-B1-042312	Total/NA	Water	3510C	
720-41840-16	W-2344-B2-042312	Total/NA	Water	3510C	
720-41840-17	W-2344-B3-042312	Total/NA	Water	3510C	
720-41840-20	W-2344-B4-042312	Total/NA	Water	3510C	
720-41840-21	W-2344-B5-042312	Total/NA	Water	3510C	
720-41840-22	W-2344-B6B-042412	Total/NA	Water	3510C	
720-41840-23	W-2344-B7B-042412	Total/NA	Water	3510C	
720-41840-24	W-2344-B8B-042412	Total/NA	Water	3510C	
720-41840-25	W-2344-B9B-042512	Total/NA	Water	3510C	
720-41840-26	W-2344-B10A-042512	Total/NA	Water	3510C	
720-41840-27	W-2344-B10B-042512	Total/NA	Water	3510C	
720-41840-28	W-2344-B11B-042512	Total/NA	Water	3510C	
720-41840-29	W-2344-B12A-042512	Total/NA	Water	3510C	
720-41840-30	W-2344-B12B-042512	Total/NA	Water	3510C	
720-41840-31	W-2344-B8A-042512	Total/NA	Water	3510C	
LCS 720-112613/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-112613/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-112613/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 112715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-17	W-2344-B3-042312	Total/NA	Water	8270C SIM	112613
720-41840-20	W-2344-B4-042312	Total/NA	Water	8270C SIM	112613
720-41840-21	W-2344-B5-042312	Total/NA	Water	8270C SIM	112613
720-41840-22	W-2344-B6B-042412	Total/NA	Water	8270C SIM	112613
720-41840-23	W-2344-B7B-042412	Total/NA	Water	8270C SIM	112613
720-41840-24	W-2344-B8B-042412	Total/NA	Water	8270C SIM	112613
720-41840-25	W-2344-B9B-042512	Total/NA	Water	8270C SIM	112613
720-41840-26	W-2344-B10A-042512	Total/NA	Water	8270C SIM	112613
720-41840-27	W-2344-B10B-042512	Total/NA	Water	8270C SIM	112613
720-41840-28	W-2344-B11B-042512	Total/NA	Water	8270C SIM	112613
720-41840-29	W-2344-B12A-042512	Total/NA	Water	8270C SIM	112613
LCS 720-112613/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	112613
LCSD 720-112613/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	112613
MB 720-112613/1-A	Method Blank	Total/NA	Water	8270C SIM	112613

Prep Batch: 112717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-1	SO-2344-B1-5'-042312	Total/NA	Solid	3546	
720-41840-2	SO-2344-B2-5'-042312	Total/NA	Solid	3546	
720-41840-4	SO-2344-B1-16'-042312	Total/NA	Solid	3546	
720-41840-5	SO-2344-B1-10'-042312	Total/NA	Solid	3546	
720-41840-6	SO-2344-B3-5'-042312	Total/NA	Solid	3546	
720-41840-7	SO-2344-B2-11'-042312	Total/NA	Solid	3546	
720-41840-9	SO-2344-B4-5'-042312	Total/NA	Solid	3546	
720-41840-10	SO-2344-B3-15.5'-042312	Total/NA	Solid	3546	
720-41840-11	SO-2344-B3-12'-042312	Total/NA	Solid	3546	
720-41840-12	SO-2344-B5-5'-042312	Total/NA	Solid	3546	
720-41840-13	SO-2344-B4-12'-042312	Total/NA	Solid	3546	
720-41840-14	SO-2344-B4-16'-042312	Total/NA	Solid	3546	
720-41840-18	SO-2344-B5-16'-042312	Total/NA	Solid	3546	
720-41840-19	SO-2344-B5-10'-042312	Total/NA	Solid	3546	

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

GC/MS Semi VOA (Continued)

Prep Batch: 112717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-32	SO-2344-B2-14'-042312	Total/NA	Solid	3546	
LCS 720-112717/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-112717/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-112717/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 112801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-30	W-2344-B12B-042512	Total/NA	Water	8270C SIM	112613
720-41840-31	W-2344-B8A-042512	Total/NA	Water	8270C SIM	112613

Analysis Batch: 112886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-15	W-2344-B1-042312	Total/NA	Water	8270C SIM	112613
720-41840-16	W-2344-B2-042312	Total/NA	Water	8270C SIM	112613

Analysis Batch: 112951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-112717/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	112717
LCSD 720-112717/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	112717
MB 720-112717/1-A	Method Blank	Total/NA	Solid	8270C SIM	112717

Analysis Batch: 113084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-2	SO-2344-B2-5'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-4	SO-2344-B1-16'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-6	SO-2344-B3-5'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-10	SO-2344-B3-15.5'-042312	Total/NA	Solid	8270C SIM	112717

Analysis Batch: 113121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-1	SO-2344-B1-5'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-5	SO-2344-B1-10'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-7	SO-2344-B2-11'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-9	SO-2344-B4-5'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-11	SO-2344-B3-12'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-12	SO-2344-B5-5'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-13	SO-2344-B4-12'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-14	SO-2344-B4-16'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-18	SO-2344-B5-16'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-19	SO-2344-B5-10'-042312	Total/NA	Solid	8270C SIM	112717
720-41840-32	SO-2344-B2-14'-042312	Total/NA	Solid	8270C SIM	112717

GC Semi VOA

Prep Batch: 112611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-15	W-2344-B1-042312	Silica Gel Cleanup	Water	3510C SGC	
720-41840-16	W-2344-B2-042312	Silica Gel Cleanup	Water	3510C SGC	
720-41840-17	W-2344-B3-042312	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-112611/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-112611/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-112611/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

GC Semi VOA (Continued)

Prep Batch: 112631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-20	W-2344-B4-042312	Silica Gel Cleanup	Water	3510C SGC	
720-41840-21	W-2344-B5-042312	Silica Gel Cleanup	Water	3510C SGC	
720-41840-22	W-2344-B6B-042412	Silica Gel Cleanup	Water	3510C SGC	
720-41840-23	W-2344-B7B-042412	Silica Gel Cleanup	Water	3510C SGC	
720-41840-24	W-2344-B8B-042412	Silica Gel Cleanup	Water	3510C SGC	
720-41840-25	W-2344-B9B-042512	Silica Gel Cleanup	Water	3510C SGC	
720-41840-26	W-2344-B10A-042512	Silica Gel Cleanup	Water	3510C SGC	
720-41840-27	W-2344-B10B-042512	Silica Gel Cleanup	Water	3510C SGC	
720-41840-28	W-2344-B11B-042512	Silica Gel Cleanup	Water	3510C SGC	
720-41840-29	W-2344-B12A-042512	Silica Gel Cleanup	Water	3510C SGC	
720-41840-30	W-2344-B12B-042512	Silica Gel Cleanup	Water	3510C SGC	
720-41840-31	W-2344-B8A-042512	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-112631/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-112631/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-112631/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 112671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-21	W-2344-B5-042312	Silica Gel Cleanup	Water	8015B	112631
720-41840-22	W-2344-B6B-042412	Silica Gel Cleanup	Water	8015B	112631
720-41840-23	W-2344-B7B-042412	Silica Gel Cleanup	Water	8015B	112631
720-41840-24	W-2344-B8B-042412	Silica Gel Cleanup	Water	8015B	112631
720-41840-25	W-2344-B9B-042512	Silica Gel Cleanup	Water	8015B	112631
720-41840-26	W-2344-B10A-042512	Silica Gel Cleanup	Water	8015B	112631
720-41840-27	W-2344-B10B-042512	Silica Gel Cleanup	Water	8015B	112631
720-41840-28	W-2344-B11B-042512	Silica Gel Cleanup	Water	8015B	112631
720-41840-29	W-2344-B12A-042512	Silica Gel Cleanup	Water	8015B	112631
720-41840-30	W-2344-B12B-042512	Silica Gel Cleanup	Water	8015B	112631
720-41840-31	W-2344-B8A-042512	Silica Gel Cleanup	Water	8015B	112631
LCS 720-112611/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	112611
LCS 720-112631/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	112631
LCSD 720-112611/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	112611
LCSD 720-112631/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	112631
MB 720-112611/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	112611
MB 720-112631/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	112631

Analysis Batch: 112693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-15	W-2344-B1-042312	Silica Gel Cleanup	Water	8015B	112611
720-41840-16	W-2344-B2-042312	Silica Gel Cleanup	Water	8015B	112611
720-41840-17	W-2344-B3-042312	Silica Gel Cleanup	Water	8015B	112611
720-41840-20	W-2344-B4-042312	Silica Gel Cleanup	Water	8015B	112631

Prep Batch: 112959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-1	SO-2344-B1-5'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-2	SO-2344-B2-5'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-4	SO-2344-B1-16'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-5	SO-2344-B1-10'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-6	SO-2344-B3-5'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-7	SO-2344-B2-11'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-9	SO-2344-B4-5'-042312	Silica Gel Cleanup	Solid	3546	

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

GC Semi VOA (Continued)

Prep Batch: 112959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-10	SO-2344-B3-15.5'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-11	SO-2344-B3-12'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-12	SO-2344-B5-5'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-13	SO-2344-B4-12'-042312	Silica Gel Cleanup	Solid	3546	
LCS 720-112959/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-112959/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-112959/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 113008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-4	SO-2344-B1-16'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-5	SO-2344-B1-10'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-6	SO-2344-B3-5'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-10	SO-2344-B3-15.5'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-11	SO-2344-B3-12'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-12	SO-2344-B5-5'-042312	Silica Gel Cleanup	Solid	8015B	112959

Analysis Batch: 113010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-1	SO-2344-B1-5'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-2	SO-2344-B2-5'-042312	Silica Gel Cleanup	Solid	8015B	112959
LCS 720-112959/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	112959
LCSD 720-112959/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	112959
MB 720-112959/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	112959

Prep Batch: 113018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-14	SO-2344-B4-16'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-18	SO-2344-B5-16'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-19	SO-2344-B5-10'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-19 MS	SO-2344-B5-10'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-19 MSD	SO-2344-B5-10'-042312	Silica Gel Cleanup	Solid	3546	
720-41840-32	SO-2344-B2-14'-042312	Silica Gel Cleanup	Solid	3546	
LCS 720-113018/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-113018/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-113018/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 113068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-7	SO-2344-B2-11'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-9	SO-2344-B4-5'-042312	Silica Gel Cleanup	Solid	8015B	112959
720-41840-13	SO-2344-B4-12'-042312	Silica Gel Cleanup	Solid	8015B	112959

Analysis Batch: 113071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-41840-14	SO-2344-B4-16'-042312	Silica Gel Cleanup	Solid	8015B	113018
720-41840-18	SO-2344-B5-16'-042312	Silica Gel Cleanup	Solid	8015B	113018
720-41840-19	SO-2344-B5-10'-042312	Silica Gel Cleanup	Solid	8015B	113018
720-41840-19 MS	SO-2344-B5-10'-042312	Silica Gel Cleanup	Solid	8015B	113018
720-41840-19 MSD	SO-2344-B5-10'-042312	Silica Gel Cleanup	Solid	8015B	113018
720-41840-32	SO-2344-B2-14'-042312	Silica Gel Cleanup	Solid	8015B	113018
LCS 720-113018/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	113018

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

GC Semi VOA (Continued)

Analysis Batch: 113071 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-113018/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	113018
MB 720-113018/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	113018

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B1-5'-042312

Date Collected: 04/23/12 10:50

Date Received: 04/26/12 18:20

Lab Sample ID: 720-41840-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		5	113121	05/07/12 16:29	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113010	05/04/12 17:19	JZ	TAL SF

Client Sample ID: SO-2344-B2-5'-042312

Date Collected: 04/23/12 11:39

Date Received: 04/26/12 18:20

Lab Sample ID: 720-41840-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113084	05/05/12 23:23	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113010	05/04/12 17:43	JZ	TAL SF

Client Sample ID: SO-2344-B1-16'-042312

Date Collected: 04/23/12 11:54

Date Received: 04/26/12 18:20

Lab Sample ID: 720-41840-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113084	05/05/12 23:46	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113008	05/04/12 14:35	JZ	TAL SF

Client Sample ID: SO-2344-B1-10'-042312

Date Collected: 04/23/12 12:04

Date Received: 04/26/12 18:20

Lab Sample ID: 720-41840-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		5	113121	05/07/12 16:52	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113008	05/04/12 14:58	JZ	TAL SF

Client Sample ID: SO-2344-B3-5'-042312

Date Collected: 04/23/12 12:13

Date Received: 04/26/12 18:20

Lab Sample ID: 720-41840-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113084	05/06/12 00:10	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113008	05/04/12 15:22	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B2-11'-042312

Lab Sample ID: 720-41840-7

Date Collected: 04/23/12 13:17

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		5	113121	05/07/12 17:16	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		5	113068	05/05/12 20:35	JZ	TAL SF

Client Sample ID: SO-2344-B4-5'-042312

Lab Sample ID: 720-41840-9

Date Collected: 04/23/12 13:41

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		5	113121	05/07/12 17:39	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		3	113068	05/05/12 20:59	JZ	TAL SF

Client Sample ID: SO-2344-B3-15.5'-042312

Lab Sample ID: 720-41840-10

Date Collected: 04/23/12 14:16

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113084	05/06/12 00:33	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113008	05/04/12 16:32	JZ	TAL SF

Client Sample ID: SO-2344-B3-12'-042312

Lab Sample ID: 720-41840-11

Date Collected: 04/23/12 14:22

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113121	05/07/12 13:20	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113008	05/04/12 16:56	JZ	TAL SF

Client Sample ID: SO-2344-B5-5'-042312

Lab Sample ID: 720-41840-12

Date Collected: 04/23/12 15:06

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113121	05/07/12 13:43	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113008	05/04/12 17:19	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B4-12'-042312

Lab Sample ID: 720-41840-13

Date Collected: 04/23/12 15:22

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		2	113121	05/07/12 14:07	ML	TAL SF
Silica Gel Cleanup	Prep	3546			112959	05/03/12 10:30	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	113068	05/05/12 21:22	JZ	TAL SF

Client Sample ID: SO-2344-B4-16'-042312

Lab Sample ID: 720-41840-14

Date Collected: 04/23/12 15:25

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113121	05/07/12 14:30	ML	TAL SF
Silica Gel Cleanup	Prep	3546			113018	05/04/12 10:50	MP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113071	05/05/12 16:28	JZ	TAL SF

Client Sample ID: W-2344-B1-042312

Lab Sample ID: 720-41840-15

Date Collected: 04/23/12 15:30

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		5	112886	05/02/12 20:07	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112611	04/27/12 14:09	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112693	04/30/12 14:49	JZ	TAL SF

Client Sample ID: W-2344-B2-042312

Lab Sample ID: 720-41840-16

Date Collected: 04/23/12 15:45

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		5	112886	05/02/12 20:31	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112611	04/27/12 14:09	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	112693	04/30/12 15:12	JZ	TAL SF

Client Sample ID: W-2344-B3-042312

Lab Sample ID: 720-41840-17

Date Collected: 04/23/12 16:00

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 20:15	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112611	04/27/12 14:09	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112693	04/30/12 15:36	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: SO-2344-B5-16'-042312

Lab Sample ID: 720-41840-18

Date Collected: 04/23/12 16:26

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113121	05/07/12 14:54	ML	TAL SF
Silica Gel Cleanup	Prep	3546			113018	05/04/12 10:50	MP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113071	05/05/12 16:53	JZ	TAL SF

Client Sample ID: SO-2344-B5-10'-042312

Lab Sample ID: 720-41840-19

Date Collected: 04/23/12 16:28

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113121	05/07/12 15:18	ML	TAL SF
Silica Gel Cleanup	Prep	3546			113018	05/04/12 10:50	MP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113071	05/05/12 16:04	JZ	TAL SF

Client Sample ID: W-2344-B4-042312

Lab Sample ID: 720-41840-20

Date Collected: 04/23/12 16:45

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 20:39	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	112693	04/30/12 12:27	JZ	TAL SF

Client Sample ID: W-2344-B5-042312

Lab Sample ID: 720-41840-21

Date Collected: 04/23/12 17:00

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 21:02	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 18:50	JZ	TAL SF

Client Sample ID: W-2344-B6B-042412

Lab Sample ID: 720-41840-22

Date Collected: 04/24/12 11:45

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 21:26	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 19:14	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B7B-042412

Lab Sample ID: 720-41840-23

Date Collected: 04/24/12 13:21

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 21:49	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 19:38	JZ	TAL SF

Client Sample ID: W-2344-B8B-042412

Lab Sample ID: 720-41840-24

Date Collected: 04/24/12 15:16

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 22:13	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 20:03	JZ	TAL SF

Client Sample ID: W-2344-B9B-042512

Lab Sample ID: 720-41840-25

Date Collected: 04/25/12 08:00

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 22:37	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 20:27	JZ	TAL SF

Client Sample ID: W-2344-B10A-042512

Lab Sample ID: 720-41840-26

Date Collected: 04/25/12 10:00

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 23:00	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 20:51	JZ	TAL SF

Client Sample ID: W-2344-B10B-042512

Lab Sample ID: 720-41840-27

Date Collected: 04/25/12 11:00

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 23:24	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 21:16	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Client Sample ID: W-2344-B11B-042512

Lab Sample ID: 720-41840-28

Date Collected: 04/25/12 12:45

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	04/30/12 23:47	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 21:40	JZ	TAL SF

Client Sample ID: W-2344-B12A-042512

Lab Sample ID: 720-41840-29

Date Collected: 04/25/12 15:15

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112715	05/01/12 00:11	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/28/12 22:04	JZ	TAL SF

Client Sample ID: W-2344-B12B-042512

Lab Sample ID: 720-41840-30

Date Collected: 04/25/12 15:45

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112801	05/01/12 21:55	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/29/12 00:54	JZ	TAL SF

Client Sample ID: W-2344-B8A-042512

Lab Sample ID: 720-41840-31

Date Collected: 04/25/12 16:30

Matrix: Water

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			112613	04/27/12 18:27	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	112801	05/01/12 22:18	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			112631	04/27/12 18:17	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	112671	04/29/12 01:19	JZ	TAL SF

Client Sample ID: SO-2344-B2-14'-042312

Lab Sample ID: 720-41840-32

Date Collected: 04/23/12 13:22

Matrix: Solid

Date Received: 04/26/12 18:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			112717	04/30/12 13:01	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	113121	05/07/12 15:41	ML	TAL SF
Silica Gel Cleanup	Prep	3546			113018	05/04/12 10:50	MP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	113071	05/05/12 17:17	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Laboratory	Authority	Program	EPA Region	Certification ID
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Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-41840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-41840-1	SO-2344-B1-5'-042312	Solid	04/23/12 10:50	04/26/12 18:20
720-41840-2	SO-2344-B2-5'-042312	Solid	04/23/12 11:39	04/26/12 18:20
720-41840-4	SO-2344-B1-16'-042312	Solid	04/23/12 11:54	04/26/12 18:20
720-41840-5	SO-2344-B1-10'-042312	Solid	04/23/12 12:04	04/26/12 18:20
720-41840-6	SO-2344-B3-5'-042312	Solid	04/23/12 12:13	04/26/12 18:20
720-41840-7	SO-2344-B2-11'-042312	Solid	04/23/12 13:17	04/26/12 18:20
720-41840-9	SO-2344-B4-5'-042312	Solid	04/23/12 13:41	04/26/12 18:20
720-41840-10	SO-2344-B3-15.5'-042312	Solid	04/23/12 14:16	04/26/12 18:20
720-41840-11	SO-2344-B3-12'-042312	Solid	04/23/12 14:22	04/26/12 18:20
720-41840-12	SO-2344-B5-5'-042312	Solid	04/23/12 15:06	04/26/12 18:20
720-41840-13	SO-2344-B4-12'-042312	Solid	04/23/12 15:22	04/26/12 18:20
720-41840-14	SO-2344-B4-16'-042312	Solid	04/23/12 15:25	04/26/12 18:20
720-41840-15	W-2344-B1-042312	Water	04/23/12 15:30	04/26/12 18:20
720-41840-16	W-2344-B2-042312	Water	04/23/12 15:45	04/26/12 18:20
720-41840-17	W-2344-B3-042312	Water	04/23/12 16:00	04/26/12 18:20
720-41840-18	SO-2344-B5-16'-042312	Solid	04/23/12 16:26	04/26/12 18:20
720-41840-19	SO-2344-B5-10'-042312	Solid	04/23/12 16:28	04/26/12 18:20
720-41840-20	W-2344-B4-042312	Water	04/23/12 16:45	04/26/12 18:20
720-41840-21	W-2344-B5-042312	Water	04/23/12 17:00	04/26/12 18:20
720-41840-22	W-2344-B6B-042412	Water	04/24/12 11:45	04/26/12 18:20
720-41840-23	W-2344-B7B-042412	Water	04/24/12 13:21	04/26/12 18:20
720-41840-24	W-2344-B8B-042412	Water	04/24/12 15:16	04/26/12 18:20
720-41840-25	W-2344-B9B-042512	Water	04/25/12 08:00	04/26/12 18:20
720-41840-26	W-2344-B10A-042512	Water	04/25/12 10:00	04/26/12 18:20
720-41840-27	W-2344-B10B-042512	Water	04/25/12 11:00	04/26/12 18:20
720-41840-28	W-2344-B11B-042512	Water	04/25/12 12:45	04/26/12 18:20
720-41840-29	W-2344-B12A-042512	Water	04/25/12 15:15	04/26/12 18:20
720-41840-30	W-2344-B12B-042512	Water	04/25/12 15:45	04/26/12 18:20
720-41840-31	W-2344-B8A-042512	Water	04/25/12 16:30	04/26/12 18:20
720-41840-32	SO-2344-B2-14'-042312	Solid	04/23/12 13:22	04/26/12 18:20

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 138012

Date: _____ Page 1 of 4

Report To

Attn: Lia Holder

Company: Antea Group

Address:

Email: lia.holder@anteagroup.com

Bill To: UPBR

Attn: James DeF

Sample ID: _____ Date: _____ Time: _____ Mat: _____ Preserv: _____

Analysis Request

Volatile Organics GC/MS (VOCs) ☐ EPA 8260B		HVOCs by ☐ EPA 8260B	
EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol		TEPH EPA 8015B ☒ Silica Gel ☒ Diesel Motor Oil ☐ Other	
SemiVolatile Organics GC/MS ☐ EPA 8270C		PNA/PAH's by ☐ 8270C ☒ 8270C SIM	
Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total		Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	
CAM17 Metals (EPA 6010/7470/7471)		Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	
Metals: ☐ 6020 ☐ 200.8 (ICP-MS):		☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	
Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199		pH ☐ 9040 ☐ SM4500	
☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS		Anions: ☐ Cl ☐ SO ₄ ☐ NO ₃ ☐ F ☐ Br ☐ NO ₂ ☐ PO ₄	
☐ Perchlorate by EPA 314.0		COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	
Number of Containers			

Sample ID	Date	Time	Mat	Preserv	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. 50-2344-B1-51-042312		1050	S	None														
2. 50-2344-B2-51-042312		1139	S	None														
3. 50-2344-B1-141-042312		1152																
4. 50-2344-B1-141-042312		1134																
5. 50-2344-B1-10-042312		1204																
6. 50-2344-B3-51-042312		1213																
7. 50-2344-B2-11042312		1117																
8. 50-2344-B2-121-042312		1119																
9. 50-2344-B4-51-042312		1141																
10. 50-2344-B3-1551-042312		1116																

Project Info

Project Name: # of Containers: _____

Head Space: _____

Temp: 2.9, 1.4, 3.1, 1.6, 0.6, 3.2, 3.9

PO#: _____

Credit Card V/N: _____

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF

Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:

Signature: _____ Time: 3:45

Printed Name: _____ Date: 4/26/12

Company: Antea

2) Relinquished by:

Signature: _____ Time: 1820

Printed Name: _____ Date: 4/26/12

Company: Antea

3) Relinquished by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

1) Received by:

Signature: _____ Time: 1713

Printed Name: _____ Date: 4/26/12

Company: Antea

2) Received by:

Signature: _____ Time: 1820

Printed Name: _____ Date: 4/26/12

Company: Test America

3) Received by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-41840

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 138012

Date: Page 2 of 4

5/10/2012

Report To Analysis Request

Attn:	
Company:	
Address:	
Email:	
Bill To:	Sampled By:
Attn:	Phone:
Sample ID	Date
Time	Mat
ix	Preserv
Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	
HVOCs by ☐ EPA 8260B	
EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	
TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other	
SemiVolatile Organics GC/MS ☐ EPA 8270C	
PNA/PAH's by ☐ 8270C ☒ 8270C SIM	
Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	
Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	
CAM17 Metals (EPA 6010/7470/7471)	
Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	
Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	
☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	
Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	
pH ☐ 9040 ☐ SM4500	
☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	
Anions: ☐ Cl ☐ SO ₄ ☐ NO ₃ ☐ F ☐ Br ☐ NO ₂ ☐ PO ₄	
☐ Perchlorate by EPA 314.0	
COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	
Number of Containers	

Sample ID	Date	Time	Mat	ix	Preserv
11. SO-2344-B3-12'-042312		222	S		None
12. SO-2344-B3-5'-042312		306	S		None
13. SO-2344-B4-12'-042312		322	S		None
14. SO-2344-B4-16'-042312		325	S		None
15. W-2344-B1-042312		330	W		
16. W-2344-B2-042312		345	W		
17. W-2344-B2-042312		400	W		
18. SO-2344-B5-16'-042312		426	S		
19. SO-2344-B5-10'-042312		428	S		
20. W-2344-B4-042312		445	W		

Project Info Sample Receipt

Project Name/ #:	# of Containers:
Head Space:	
PO#:	Temp:
Credit Card	
VIN:	If yes, please call with payment information ASAP
10 Day	5 Day
4 Day	3 Day
2 Day	1 Day
Other:	
Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF	Special Instructions / Comments: ☐ Global ID
See Terms and Conditions on reverse	

1) Relinquished by:	Signature: <u>[Signature]</u>	Time: <u>3:55</u>
Printed Name:	<u>Dene Parsons</u>	Date: <u>4/26/12</u>
Company:	<u>Amica</u>	
2) Relinquished by:	Signature: <u>[Signature]</u>	Time: <u>16:20</u>
Printed Name:	<u>Sam Motta</u>	Date: <u>04/26/12</u>
Company:	<u>Amica</u>	
3) Relinquished by:	Signature: <u>[Signature]</u>	Time: <u>18:20</u>
Printed Name:	<u>Tribble</u>	Date: <u>4/26/12</u>
Company:	<u>Test America</u>	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-41840

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #:

738012

Date: Page 3 of 4

Report To: Analysis Request

Attn:		Company:		Address:		Email:		Bill To:		Sampled By:		Phone:	
Sample ID		Date		Time		Mat		Preserv		Volatile Organics GC/MS (VOCs)		☐ EPA 8260B HVOCs by ☐ EPA 8260B EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	
1. W-2344-B5-042312		500		W		NONE				☒ EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other		SemiVolatile Organics GC/MS ☐ EPA 8270C PNAPAH's by ☐ 8270C ☒ 8270C SIM	
2. W-2344-B16B-042412		1145		W		None				☐ EPA 8081 ☐ EPA 8082 CAM17 Metals (EPA 6010/7470/7471)		☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	
3. W-2344-B18B-042412		121		W		None				☐ 6020 ☐ 200.8 (ICP-MS):		☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	
4. W-2344-B18B-042412		150		W		None				☐ EPA 7196 ☐ or EPA 7199		☐ pH ☐ 9040 ☐ SM4500	
5. W-2344-B18B-042412		310		W		None				☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS		☐ Anions: ☐ Cl ☐ SO ₄ ☐ NO ₃ ☐ F ☐ Br ☐ NO ₂ ☐ PO ₄	
6. W-2344-B10A-042512		800		W		None				☐ Perchlorate by EPA 314.0		☐ COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	
7. W-2344-B10B-042512		1100		W		None				Number of Containers			
8. W-2344-B11B-042512		1245		W		None							

Project Info Sample Receipt

Project Name/ #: # of Containers: 1) Relinquished by: Signature: Time: 355

Head Space: Printed Name: Date: 4/26/12

Temp: Printed Name: Date: 04/26/12

PO#: Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

Company: Signature: Time: 1820

Printed Name: Date: 04/26/12

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

720-41840

TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

INSTRUMENT #

138012

Date _____ Page 4 of 4

5/10/2012

Report to

Analysis Request

Attn: _____
 Company: _____
 Address: _____
 Email: _____
 Bill To: _____
 Sampled By: _____
 Phone: _____

Volatile Organics GC/MS (VOCs)
☐ EPA 8260B
 VOCs by ☐ EPA 8260B
 EPA 8260B: ☐ Gas ☐ BTEX
☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol
 TEPH EPA 8015B ☒ Silica Gel
☒ Diesel ☐ Motor Oil ☐ Other _____
 SemiVolatile Organics GC/MS
☐ EPA 8270C
 PMA/PAH's by ☐ 8270C
☒ 8270C SIM
 Oil and Grease ☐ Petroleum
 (EPA 1664/9071) ☐ Total
 Pesticides ☐ EPA 8081
 PCBs ☐ EPA 8082
 CAM17 Metals
 (EPA 6010/7470/7471)
 Metals: ☐ 6010B ☐ 200.7
☐ Lead ☐ LUFT ☐ RCRA ☐
 Other: _____
 Metals: ☐ 6020 ☐ 200.8
 (ICP-MS): _____
☐ W.E.T (STLC)
☐ W.E.T (DI) ☐ TCLP
 Hex. Chrom by ☐ EPA 7196
☐ or EPA 7199
 pH ☐ 9040
☐ SM4500
☐ Spec. Cond. ☐ Alkalinity
☐ TSS ☐ SS ☐ TDS
 Anions: ☐ Cl ☐ SO₄ ☐ NO₃ ☐ F
☐ Br ☐ NO₂ ☐ PO₄
☐ Perchlorate by EPA 314.0
 COD ☐ EPA 410.4 ☐ SM5220D
☐ Turbidity

Sample ID	Date	Time	Mat	Preser
W-2344-B12A-042512		315	W	None
W-2344-B12B-042512		345	W	None
W-2344-B38A-042512		430	W	None
W-2344-B12-14-042512		125	W	None

no more samples PNE

Project Info	Sample Receipt
Project Name: #	# of Containers:
Head Space:	Temp:
PO#:	
Credit Card	
Y/N:	If yes, please call with payment information ASAP
T 10 Day	5 Day
A 4 Day	3 Day
T 2 Day	1 Day
	Other:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: _____
Time: 3:35	Time: 18:20	Time: _____
Date: 04/26/12	Date: 04/26/12	Date: _____
Printed Name: <u>Denee Ransom</u>	Printed Name: <u>Sarah Motte</u>	Printed Name: _____
Company: <u>Unita</u>	Company: <u>TSR</u>	Company: _____

1) Received by:	2) Received by:	3) Received by:
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: _____
Time: 17:13	Time: 18:20	Time: _____
Date: 04/26/12	Date: 4/26/12	Date: _____
Printed Name: <u>Sarah Motte</u>	Printed Name: <u>Taibacca</u>	Printed Name: _____
Company: <u>Unita</u>	Company: <u>Test America</u>	Company: _____

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-41840-1

Login Number: 41840

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-43207-1

Client Project/Site: UPRR- Santa Rosa

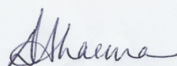
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

7/24/2012 12:17:22 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Job ID: 720-43207-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-43207-1

Comments

No additional comments.

Receipt

The samples were received on 7/11/2012 7:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

Except:

Received 2 containers not listed on coc: SO-2344-SSW-100712 and SO-2344-SSW1-100712 the time on both containers is 9:30. Logged as 1 sample with 2 containers on hold.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-SSW1-100712 (720-43207-3), SO-2344-SSW2-100712 (720-43207-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: SO-2344-SSW1-100712 (720-43207-3), SO-2344-SSW2-100712 (720-43207-4).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-BASE1-100712

Lab Sample ID: 720-43207-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	40		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	63		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-WSW1-100712

Lab Sample ID: 720-43207-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.0		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-SSW1-100712

Lab Sample ID: 720-43207-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	320		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	500		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-SSW2-100712

Lab Sample ID: 720-43207-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	56		50		ug/Kg	10		8270C SIM	Total/NA
Chrysene	72		50		ug/Kg	10		8270C SIM	Total/NA
Pyrene	62		50		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1800		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2000		1000		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-BASE2-100712

Lab Sample ID: 720-43207-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	8.2		4.9		ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	170		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	180		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-NSW2-100712

Lab Sample ID: 720-43207-6

No Detections

Client Sample ID: SO-2344-NSW1-100712

Lab Sample ID: 720-43207-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-BASE1-100712

Lab Sample ID: 720-43207-1

Date Collected: 07/10/12 08:50

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Acenaphthylene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Chrysene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Fluorene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Naphthalene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Phenanthrene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/14/12 07:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		33 - 120				07/11/12 11:59	07/14/12 07:47	1
Terphenyl-d14	69		35 - 146				07/11/12 11:59	07/14/12 07:47	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	40		0.99		mg/Kg		07/11/12 12:00	07/13/12 22:04	1
Motor Oil Range Organics [C24-C36]	63		49		mg/Kg		07/11/12 12:00	07/13/12 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 1				07/11/12 12:00	07/13/12 22:04	1
p-Terphenyl	71		38 - 148				07/11/12 12:00	07/13/12 22:04	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-WSW1-100712

Lab Sample ID: 720-43207-2

Date Collected: 07/10/12 09:07

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Acenaphthylene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Chrysene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Fluorene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Naphthalene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Phenanthrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	53		33 - 120				07/11/12 11:59	07/16/12 14:25	1
Terphenyl-d14	56		35 - 146				07/11/12 11:59	07/16/12 14:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.0		0.99		mg/Kg		07/11/12 12:00	07/12/12 17:03	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/11/12 12:00	07/12/12 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1				07/11/12 12:00	07/12/12 17:03	1
p-Terphenyl	66		38 - 148				07/11/12 12:00	07/12/12 17:03	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-SSW1-100712

Lab Sample ID: 720-43207-3

Date Collected: 07/10/12 09:20

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Acenaphthylene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Anthracene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Benzo[a]anthracene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Benzo[a]pyrene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Benzo[b]fluoranthene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Benzo[g,h,i]perylene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Benzo[k]fluoranthene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Chrysene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Dibenz[a,h]anthracene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Fluoranthene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Fluorene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Naphthalene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Phenanthrene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Pyrene	ND		25		ug/Kg		07/11/12 11:59	07/16/12 18:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	42		33 - 120				07/11/12 11:59	07/16/12 18:27	5
Terphenyl-d14	53		35 - 146				07/11/12 11:59	07/16/12 18:27	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	320		5.0		mg/Kg		07/11/12 12:00	07/13/12 22:29	5
Motor Oil Range Organics [C24-C36]	500		250		mg/Kg		07/11/12 12:00	07/13/12 22:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/11/12 12:00	07/13/12 22:29	5
p-Terphenyl	0	X D	38 - 148				07/11/12 12:00	07/13/12 22:29	5

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-SSW2-100712

Lab Sample ID: 720-43207-4

Date Collected: 07/10/12 11:55

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Acenaphthylene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Anthracene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Benzo[a]anthracene	56		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Benzo[a]pyrene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Benzo[b]fluoranthene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Benzo[g,h,i]perylene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Benzo[k]fluoranthene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Chrysene	72		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Dibenz(a,h)anthracene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Fluoranthene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Fluorene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Indeno[1,2,3-cd]pyrene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Naphthalene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Phenanthrene	ND		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Pyrene	62		50		ug/Kg		07/11/12 11:59	07/16/12 18:51	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	43		33 - 120				07/11/12 11:59	07/16/12 18:51	10
Terphenyl-d14	60		35 - 146				07/11/12 11:59	07/16/12 18:51	10

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1800		20		mg/Kg		07/11/12 12:00	07/13/12 22:53	20
Motor Oil Range Organics [C24-C36]	2000		1000		mg/Kg		07/11/12 12:00	07/13/12 22:53	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/11/12 12:00	07/13/12 22:53	20
p-Terphenyl	0	X D	38 - 148				07/11/12 12:00	07/13/12 22:53	20

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-BASE2-100712

Lab Sample ID: 720-43207-5

Date Collected: 07/10/12 12:00

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Acenaphthylene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Anthracene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Benzo[a]anthracene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Benzo[a]pyrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Chrysene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Fluoranthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Fluorene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Naphthalene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Phenanthrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Pyrene	8.2		4.9		ug/Kg		07/11/12 11:59	07/16/12 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		33 - 120				07/11/12 11:59	07/16/12 14:48	1
Terphenyl-d14	67		35 - 146				07/11/12 11:59	07/16/12 14:48	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		1.0		mg/Kg		07/11/12 12:00	07/13/12 23:18	1
Motor Oil Range Organics [C24-C36]	180		50		mg/Kg		07/11/12 12:00	07/13/12 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	1		0 - 1				07/11/12 12:00	07/13/12 23:18	1
p-Terphenyl	72		38 - 148				07/11/12 12:00	07/13/12 23:18	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-NSW2-100712

Lab Sample ID: 720-43207-6

Date Collected: 07/10/12 12:15

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Acenaphthylene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Anthracene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Benzo[a]anthracene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Benzo[a]pyrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Chrysene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Dibenz[a,h]anthracene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Fluoranthene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Fluorene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Naphthalene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Phenanthrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Pyrene	ND		4.9		ug/Kg		07/11/12 11:59	07/16/12 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		33 - 120				07/11/12 11:59	07/16/12 15:12	1
Terphenyl-d14	63		35 - 146				07/11/12 11:59	07/16/12 15:12	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/11/12 12:00	07/12/12 18:41	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/11/12 12:00	07/12/12 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/11/12 12:00	07/12/12 18:41	1
p-Terphenyl	68		38 - 148				07/11/12 12:00	07/12/12 18:41	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-NSW1-100712

Lab Sample ID: 720-43207-7

Date Collected: 07/10/12 09:20

Matrix: Solid

Date Received: 07/11/12 07:20

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Acenaphthylene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Chrysene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Fluoranthene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Fluorene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Naphthalene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Phenanthrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Pyrene	ND		5.0		ug/Kg		07/11/12 11:59	07/16/12 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		33 - 120				07/11/12 11:59	07/16/12 15:35	1
Terphenyl-d14	64		35 - 146				07/11/12 11:59	07/16/12 15:35	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		1.0		mg/Kg		07/11/12 12:00	07/12/12 19:06	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/11/12 12:00	07/12/12 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.5		0 - 1				07/11/12 12:00	07/12/12 19:06	1
p-Terphenyl	54		38 - 148				07/11/12 12:00	07/12/12 19:06	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-116955/1-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Acenaphthylene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Anthracene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Chrysene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Fluoranthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Fluorene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Naphthalene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Phenanthrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Pyrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120	07/11/12 09:17	07/13/12 11:38	1
Terphenyl-d14	82		35 - 146	07/11/12 09:17	07/13/12 11:38	1

Lab Sample ID: LCS 720-116955/2-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	240		ug/Kg		72	49 - 120
Acenaphthylene	333	235		ug/Kg		71	52 - 120
Anthracene	333	247		ug/Kg		74	52 - 120
Benzo[a]anthracene	333	246		ug/Kg		74	52 - 120
Benzo[a]pyrene	333	263		ug/Kg		79	54 - 120
Benzo[b]fluoranthene	333	285		ug/Kg		86	51 - 120
Benzo[g,h,i]perylene	333	235		ug/Kg		71	48 - 120
Benzo[k]fluoranthene	333	262		ug/Kg		79	56 - 120
Chrysene	333	227		ug/Kg		68	40 - 120
Dibenz(a,h)anthracene	333	259		ug/Kg		78	50 - 120
Fluoranthene	333	265		ug/Kg		80	57 - 120
Fluorene	333	251		ug/Kg		75	52 - 120
Indeno[1,2,3-cd]pyrene	333	256		ug/Kg		77	48 - 120
Naphthalene	333	230		ug/Kg		69	46 - 120
Phenanthrene	333	240		ug/Kg		72	48 - 120
Pyrene	333	235		ug/Kg		71	53 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	81		33 - 120
Terphenyl-d14	85		35 - 146

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-116955/3-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	333	235		ug/Kg		71	49 - 120	2	20
Acenaphthylene	333	224		ug/Kg		67	52 - 120	5	20
Anthracene	333	236		ug/Kg		71	52 - 120	5	20
Benzo[a]anthracene	333	244		ug/Kg		73	52 - 120	1	20
Benzo[a]pyrene	333	262		ug/Kg		79	54 - 120	1	20
Benzo[b]fluoranthene	333	281		ug/Kg		84	51 - 120	1	20
Benzo[g,h,i]perylene	333	233		ug/Kg		70	48 - 120	1	20
Benzo[k]fluoranthene	333	259		ug/Kg		78	56 - 120	1	20
Chrysene	333	225		ug/Kg		67	40 - 120	1	20
Dibenz(a,h)anthracene	333	254		ug/Kg		76	50 - 120	2	20
Fluoranthene	333	256		ug/Kg		77	57 - 120	4	20
Fluorene	333	238		ug/Kg		71	52 - 120	5	20
Indeno[1,2,3-cd]pyrene	333	253		ug/Kg		76	48 - 120	1	20
Naphthalene	333	223		ug/Kg		67	46 - 120	3	20
Phenanthrene	333	236		ug/Kg		71	48 - 120	2	20
Pyrene	333	224		ug/Kg		67	53 - 120	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	79		33 - 120
Terphenyl-d14	82		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-116971/1-A

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/11/12 12:00	07/12/12 12:49	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/11/12 12:00	07/12/12 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1	07/11/12 12:00	07/12/12 12:49	1
p-Terphenyl	70		38 - 148	07/11/12 12:00	07/12/12 12:49	1

Lab Sample ID: LCS 720-116971/2-A

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.1	55.5		mg/Kg		67	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	62		38 - 148

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-116971/3-A

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.7	56.5		mg/Kg		68	36 - 112	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	63		38 - 148

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

GC/MS Semi VOA

Prep Batch: 116955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43207-1	SO-2344-BASE1-100712	Total/NA	Solid	3546	
720-43207-2	SO-2344-WSW1-100712	Total/NA	Solid	3546	
720-43207-3	SO-2344-SSW1-100712	Total/NA	Solid	3546	
720-43207-4	SO-2344-SSW2-100712	Total/NA	Solid	3546	
720-43207-5	SO-2344-BASE2-100712	Total/NA	Solid	3546	
720-43207-6	SO-2344-NSW2-100712	Total/NA	Solid	3546	
720-43207-7	SO-2344-NSW1-100712	Total/NA	Solid	3546	
LCS 720-116955/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-116955/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-116955/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 117110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-116955/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	116955
LCSD 720-116955/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	116955
MB 720-116955/1-A	Method Blank	Total/NA	Solid	8270C SIM	116955

Analysis Batch: 117152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43207-1	SO-2344-BASE1-100712	Total/NA	Solid	8270C SIM	116955

Analysis Batch: 117206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43207-2	SO-2344-WSW1-100712	Total/NA	Solid	8270C SIM	116955
720-43207-3	SO-2344-SSW1-100712	Total/NA	Solid	8270C SIM	116955
720-43207-4	SO-2344-SSW2-100712	Total/NA	Solid	8270C SIM	116955
720-43207-5	SO-2344-BASE2-100712	Total/NA	Solid	8270C SIM	116955
720-43207-6	SO-2344-NSW2-100712	Total/NA	Solid	8270C SIM	116955
720-43207-7	SO-2344-NSW1-100712	Total/NA	Solid	8270C SIM	116955

GC Semi VOA

Prep Batch: 116971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43207-1	SO-2344-BASE1-100712	Silica Gel Cleanup	Solid	3546	
720-43207-2	SO-2344-WSW1-100712	Silica Gel Cleanup	Solid	3546	
720-43207-3	SO-2344-SSW1-100712	Silica Gel Cleanup	Solid	3546	
720-43207-4	SO-2344-SSW2-100712	Silica Gel Cleanup	Solid	3546	
720-43207-5	SO-2344-BASE2-100712	Silica Gel Cleanup	Solid	3546	
720-43207-6	SO-2344-NSW2-100712	Silica Gel Cleanup	Solid	3546	
720-43207-7	SO-2344-NSW1-100712	Silica Gel Cleanup	Solid	3546	
LCS 720-116971/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-116971/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-116971/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 117020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43207-2	SO-2344-WSW1-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43207-6	SO-2344-NSW2-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43207-7	SO-2344-NSW1-100712	Silica Gel Cleanup	Solid	8015B	116971
LCS 720-116971/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	116971
LCSD 720-116971/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	116971

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

GC Semi VOA (Continued)

Analysis Batch: 117020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-116971/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	116971

Analysis Batch: 117094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43207-1	SO-2344-BASE1-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43207-3	SO-2344-SSW1-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43207-4	SO-2344-SSW2-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43207-5	SO-2344-BASE2-100712	Silica Gel Cleanup	Solid	8015B	116971

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-BASE1-100712

Lab Sample ID: 720-43207-1

Date Collected: 07/10/12 08:50

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117152	07/14/12 07:47	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117094	07/13/12 22:04	JZ	TAL SF

Client Sample ID: SO-2344-WSW1-100712

Lab Sample ID: 720-43207-2

Date Collected: 07/10/12 09:07

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117206	07/16/12 14:25	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117020	07/12/12 17:03	JZ	TAL SF

Client Sample ID: SO-2344-SSW1-100712

Lab Sample ID: 720-43207-3

Date Collected: 07/10/12 09:20

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		5	117206	07/16/12 18:27	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		5	117094	07/13/12 22:29	JZ	TAL SF

Client Sample ID: SO-2344-SSW2-100712

Lab Sample ID: 720-43207-4

Date Collected: 07/10/12 11:55

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		10	117206	07/16/12 18:51	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	117094	07/13/12 22:53	JZ	TAL SF

Client Sample ID: SO-2344-BASE2-100712

Lab Sample ID: 720-43207-5

Date Collected: 07/10/12 12:00

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117206	07/16/12 14:48	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117094	07/13/12 23:18	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Client Sample ID: SO-2344-NSW2-100712

Lab Sample ID: 720-43207-6

Date Collected: 07/10/12 12:15

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117206	07/16/12 15:12	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117020	07/12/12 18:41	JZ	TAL SF

Client Sample ID: SO-2344-NSW1-100712

Lab Sample ID: 720-43207-7

Date Collected: 07/10/12 09:20

Matrix: Solid

Date Received: 07/11/12 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			116955	07/11/12 11:59	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117206	07/16/12 15:35	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117020	07/12/12 19:06	JZ	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pleasanton	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43207-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43207-1	SO-2344-BASE1-100712	Solid	07/10/12 08:50	07/11/12 07:20
720-43207-2	SO-2344-WSW1-100712	Solid	07/10/12 09:07	07/11/12 07:20
720-43207-3	SO-2344-SSW1-100712	Solid	07/10/12 09:20	07/11/12 07:20
720-43207-4	SO-2344-SSW2-100712	Solid	07/10/12 11:55	07/11/12 07:20
720-43207-5	SO-2344-BASE2-100712	Solid	07/10/12 12:00	07/11/12 07:20
720-43207-6	SO-2344-NSW2-100712	Solid	07/10/12 12:15	07/11/12 07:20
720-43207-7	SO-2344-NSW1-100712	Solid	07/10/12 09:20	07/11/12 07:20

Client Name/Address: Antea Group/UPRR 312 Piercy Road San Jose, CA 95138				Project / PO Number: Santa Rosa CA-2 Fourth Street and 34 Sixth Street Antea Group Project No. UPR8248				720-43207						
Project Manager/Phone Number: Lia Holden / 408-826-1863				Phone Number: (408) 580-4664										
Sampler: Renee Ransom				Fax Number: (408) 225-8501				GRO by EPA 8260B						
Sample Description				Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	DRO and MORO by EPA 8015 (with Silica Gel Cleanup)	VOCs by 8260B	Total and Dissolved CAM 5 Metals (Cd, Cr, Pb, Ni, Zn) by EPA 6010B	PAHs by EPA 8270C SIM	SVOCS by 8270C	Special Instructions
SD-2344-BASE1-100712				S	Jars	2	7/12/12 0850	None	X			X		4.12
SD-2344-NSM1-100712				S	Jars	2	7/12/12 0907	None	X		X			
SD-2344-SSM1-100712				S	Jars	1	7/12/12 0920	None	X		X			
SD-2344-SSM2-100712				S	Jars	1	7/12/12 1155	None	X		X			
SD-2344-BHSE2-100712				S	Jars	1	7/12/12 1200	None	X		X			
SD-2344-NSM2-100712				S	Jars	1	7/12/12 1215	None	X		X			
SD-2344-NSM1-100712				S	Jars	1	7/12/12 0920	None	X		X			
NO MORE SAMPLES														
Relinquished By: <i>SCALCINI COLE</i>				Received by:				Turnaround Time: (check)						
Date/Time:				Date/Time:				Date/Time:				Same Day _____ 72 Hours _____		
Relinquished By: <i>Benjamin - Renee Ransom</i>				Received by:				Date/Time:				24 Hours _____ 5 days _____		
Date/Time:				Date/Time:				Date/Time:				48 hours _____ normal _____		
Relinquished By:				Received by:				Date/Time:				Sample Integrity: (Check)		
Date/Time:				Date/Time:				Date/Time:				Intact _____ On Ice _____ Custody _____		

Note: By relinquishing samples to Test America, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-43207-1

Login Number: 43207

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-43231-1

Client Project/Site: UPRR- Santa Rosa

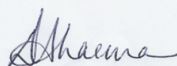
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

7/24/2012 12:42:56 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

LINKS

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results through

TotalAccess

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Job ID: 720-43231-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-43231-1

Comments

No additional comments.

Receipt

The samples were received on 7/12/2012 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-SSW3-110712 (720-43231-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-NSW3-110712

Lab Sample ID: 720-43231-1

No Detections

Client Sample ID: SO-2344-SSW3-110712

Lab Sample ID: 720-43231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	39		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	93		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-ESW1-110712

Lab Sample ID: 720-43231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	20		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-BASE4-110712

Lab Sample ID: 720-43231-4

No Detections

Client Sample ID: SO-2344-NSW4-110712

Lab Sample ID: 720-43231-5

No Detections

Client Sample ID: SO-2344-SSW4-110712

Lab Sample ID: 720-43231-6

No Detections

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-NSW3-110712

Lab Sample ID: 720-43231-1

Date Collected: 07/11/12 09:15

Matrix: Solid

Date Received: 07/12/12 18:40

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Acenaphthylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Chrysene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Fluorene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Naphthalene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Phenanthrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		33 - 120				07/12/12 19:36	07/19/12 02:15	1
Terphenyl-d14	95		35 - 146				07/12/12 19:36	07/19/12 02:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/13/12 14:27	07/17/12 21:16	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/13/12 14:27	07/17/12 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/13/12 14:27	07/17/12 21:16	1
p-Terphenyl	64		38 - 148				07/13/12 14:27	07/17/12 21:16	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-SSW3-110712

Lab Sample ID: 720-43231-2

Date Collected: 07/11/12 09:25

Matrix: Solid

Date Received: 07/12/12 18:40

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Acenaphthylene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Anthracene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Benzo[a]anthracene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Benzo[a]pyrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Benzo[b]fluoranthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Benzo[g,h,i]perylene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Benzo[k]fluoranthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Chrysene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Dibenz[a,h]anthracene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Fluoranthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Fluorene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Naphthalene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Phenanthrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Pyrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 02:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		33 - 120				07/12/12 19:36	07/19/12 02:39	5
Terphenyl-d14	73		35 - 146				07/12/12 19:36	07/19/12 02:39	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39		0.99		mg/Kg		07/13/12 14:27	07/17/12 21:40	1
Motor Oil Range Organics [C24-C36]	93		50		mg/Kg		07/13/12 14:27	07/17/12 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 1				07/13/12 14:27	07/17/12 21:40	1
p-Terphenyl	67		38 - 148				07/13/12 14:27	07/17/12 21:40	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-ESW1-110712

Lab Sample ID: 720-43231-3

Date Collected: 07/11/12 09:45

Matrix: Solid

Date Received: 07/12/12 18:40

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Acenaphthylene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Anthracene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Benzo[a]anthracene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Benzo[a]pyrene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Chrysene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Dibenz[a,h]anthracene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Fluoranthene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Fluorene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Naphthalene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Phenanthrene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Pyrene	ND		4.9		ug/Kg		07/12/12 19:36	07/19/12 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		33 - 120				07/12/12 19:36	07/19/12 03:02	1
Terphenyl-d14	97		35 - 146				07/12/12 19:36	07/19/12 03:02	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		0.99		mg/Kg		07/13/12 14:27	07/17/12 22:04	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/13/12 14:27	07/17/12 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 1				07/13/12 14:27	07/17/12 22:04	1
p-Terphenyl	68		38 - 148				07/13/12 14:27	07/17/12 22:04	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-BASE4-110712

Lab Sample ID: 720-43231-4

Date Collected: 07/11/12 09:50

Matrix: Solid

Date Received: 07/12/12 18:40

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Acenaphthylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Chrysene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Fluorene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Naphthalene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Phenanthrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		33 - 120				07/12/12 19:36	07/19/12 03:25	1
Terphenyl-d14	99		35 - 146				07/12/12 19:36	07/19/12 03:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/13/12 14:27	07/17/12 22:29	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/13/12 14:27	07/17/12 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/13/12 14:27	07/17/12 22:29	1
p-Terphenyl	70		38 - 148				07/13/12 14:27	07/17/12 22:29	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-NSW4-110712

Lab Sample ID: 720-43231-5

Date Collected: 07/11/12 09:55

Matrix: Solid

Date Received: 07/12/12 18:40

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Acenaphthylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Chrysene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Fluorene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Naphthalene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Phenanthrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		33 - 120				07/12/12 19:36	07/19/12 03:49	1
Terphenyl-d14	102		35 - 146				07/12/12 19:36	07/19/12 03:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/13/12 14:27	07/17/12 22:53	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/13/12 14:27	07/17/12 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/13/12 14:27	07/17/12 22:53	1
p-Terphenyl	87		38 - 148				07/13/12 14:27	07/17/12 22:53	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-SSW4-110712

Lab Sample ID: 720-43231-6

Date Collected: 07/11/12 11:55

Matrix: Solid

Date Received: 07/12/12 18:40

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Acenaphthylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Chrysene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Fluorene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Naphthalene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Phenanthrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/19/12 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		33 - 120				07/12/12 19:36	07/19/12 04:12	1
Terphenyl-d14	96		35 - 146				07/12/12 19:36	07/19/12 04:12	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/13/12 14:27	07/17/12 23:18	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/13/12 14:27	07/17/12 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/13/12 14:27	07/17/12 23:18	1
p-Terphenyl	86		38 - 148				07/13/12 14:27	07/17/12 23:18	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-117079/1-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Acenaphthylene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Chrysene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Fluorene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Naphthalene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Phenanthrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120	07/12/12 19:36	07/17/12 18:46	1
Terphenyl-d14	95		35 - 146	07/12/12 19:36	07/17/12 18:46	1

Lab Sample ID: LCS 720-117079/2-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	332	257		ug/Kg		77	49 - 120
Acenaphthylene	332	252		ug/Kg		76	52 - 120
Anthracene	332	252		ug/Kg		76	52 - 120
Benzo[a]anthracene	332	247		ug/Kg		74	52 - 120
Benzo[a]pyrene	332	265		ug/Kg		80	54 - 120
Benzo[b]fluoranthene	332	278		ug/Kg		84	51 - 120
Benzo[g,h,i]perylene	332	295		ug/Kg		89	48 - 120
Benzo[k]fluoranthene	332	261		ug/Kg		78	56 - 120
Chrysene	332	257		ug/Kg		77	40 - 120
Dibenz(a,h)anthracene	332	275		ug/Kg		83	50 - 120
Fluoranthene	332	261		ug/Kg		79	57 - 120
Fluorene	332	254		ug/Kg		77	52 - 120
Indeno[1,2,3-cd]pyrene	332	281		ug/Kg		85	48 - 120
Naphthalene	332	235		ug/Kg		71	46 - 120
Phenanthrene	332	256		ug/Kg		77	48 - 120
Pyrene	332	272		ug/Kg		82	53 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		33 - 120
Terphenyl-d14	90		35 - 146

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-117079/3-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117079

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	328	270		ug/Kg		82	49 - 120	5	20
Acenaphthylene	328	265		ug/Kg		81	52 - 120	5	20
Anthracene	328	256		ug/Kg		78	52 - 120	1	20
Benzo[a]anthracene	328	247		ug/Kg		75	52 - 120	0	20
Benzo[a]pyrene	328	274		ug/Kg		83	54 - 120	3	20
Benzo[b]fluoranthene	328	273		ug/Kg		83	51 - 120	2	20
Benzo[g,h,i]perylene	328	295		ug/Kg		90	48 - 120	0	20
Benzo[k]fluoranthene	328	267		ug/Kg		81	56 - 120	2	20
Chrysene	328	258		ug/Kg		79	40 - 120	0	20
Dibenz(a,h)anthracene	328	275		ug/Kg		84	50 - 120	0	20
Fluoranthene	328	265		ug/Kg		81	57 - 120	1	20
Fluorene	328	258		ug/Kg		79	52 - 120	1	20
Indeno[1,2,3-cd]pyrene	328	285		ug/Kg		87	48 - 120	1	20
Naphthalene	328	247		ug/Kg		75	46 - 120	5	20
Phenanthrene	328	264		ug/Kg		80	48 - 120	3	20
Pyrene	328	275		ug/Kg		84	53 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	83		33 - 120
Terphenyl-d14	90		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-117130/1-A

Matrix: Solid

Analysis Batch: 117182

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 117130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		07/13/12 14:27	07/16/12 13:23	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/13/12 14:27	07/16/12 13:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	07/13/12 14:27	07/16/12 13:23	1
p-Terphenyl	87		38 - 148	07/13/12 14:27	07/16/12 13:23	1

Lab Sample ID: LCS 720-117130/2-A

Matrix: Solid

Analysis Batch: 117182

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 117130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.1	68.6		mg/Kg		84	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	74		38 - 148

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-117130/3-A

Matrix: Solid

Analysis Batch: 117182

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 117130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.7	63.6		mg/Kg		77	36 - 112	8	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
p-Terphenyl	67		38 - 148						

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

GC/MS Semi VOA

Prep Batch: 117079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43231-1	SO-2344-NSW3-110712	Total/NA	Solid	3546	
720-43231-2	SO-2344-SSW3-110712	Total/NA	Solid	3546	
720-43231-3	SO-2344-ESW1-110712	Total/NA	Solid	3546	
720-43231-4	SO-2344-BASE4-110712	Total/NA	Solid	3546	
720-43231-5	SO-2344-NSW4-110712	Total/NA	Solid	3546	
720-43231-6	SO-2344-SSW4-110712	Total/NA	Solid	3546	
LCS 720-117079/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-117079/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-117079/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 117297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117079/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	117079
LCSD 720-117079/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	117079
MB 720-117079/1-A	Method Blank	Total/NA	Solid	8270C SIM	117079

Analysis Batch: 117432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43231-1	SO-2344-NSW3-110712	Total/NA	Solid	8270C SIM	117079
720-43231-2	SO-2344-SSW3-110712	Total/NA	Solid	8270C SIM	117079
720-43231-3	SO-2344-ESW1-110712	Total/NA	Solid	8270C SIM	117079
720-43231-4	SO-2344-BASE4-110712	Total/NA	Solid	8270C SIM	117079
720-43231-5	SO-2344-NSW4-110712	Total/NA	Solid	8270C SIM	117079
720-43231-6	SO-2344-SSW4-110712	Total/NA	Solid	8270C SIM	117079

GC Semi VOA

Prep Batch: 117130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43231-1	SO-2344-NSW3-110712	Silica Gel Cleanup	Solid	3546	
720-43231-2	SO-2344-SSW3-110712	Silica Gel Cleanup	Solid	3546	
720-43231-3	SO-2344-ESW1-110712	Silica Gel Cleanup	Solid	3546	
720-43231-4	SO-2344-BASE4-110712	Silica Gel Cleanup	Solid	3546	
720-43231-5	SO-2344-NSW4-110712	Silica Gel Cleanup	Solid	3546	
720-43231-6	SO-2344-SSW4-110712	Silica Gel Cleanup	Solid	3546	
LCS 720-117130/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-117130/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-117130/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 117182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117130/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	117130
LCSD 720-117130/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	117130
MB 720-117130/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	117130

Analysis Batch: 117277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43231-1	SO-2344-NSW3-110712	Silica Gel Cleanup	Solid	8015B	117130
720-43231-2	SO-2344-SSW3-110712	Silica Gel Cleanup	Solid	8015B	117130
720-43231-3	SO-2344-ESW1-110712	Silica Gel Cleanup	Solid	8015B	117130
720-43231-4	SO-2344-BASE4-110712	Silica Gel Cleanup	Solid	8015B	117130
720-43231-5	SO-2344-NSW4-110712	Silica Gel Cleanup	Solid	8015B	117130

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

GC Semi VOA (Continued)

Analysis Batch: 117277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43231-6	SO-2344-SSW4-110712	Silica Gel Cleanup	Solid	8015B	117130

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-NSW3-110712

Date Collected: 07/11/12 09:15

Date Received: 07/12/12 18:40

Lab Sample ID: 720-43231-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	117432	07/19/12 02:15	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117277	07/17/12 21:16	JZ	TAL SF

Client Sample ID: SO-2344-SSW3-110712

Date Collected: 07/11/12 09:25

Date Received: 07/12/12 18:40

Lab Sample ID: 720-43231-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		5	117432	07/19/12 02:39	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117277	07/17/12 21:40	JZ	TAL SF

Client Sample ID: SO-2344-ESW1-110712

Date Collected: 07/11/12 09:45

Date Received: 07/12/12 18:40

Lab Sample ID: 720-43231-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	117432	07/19/12 03:02	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117277	07/17/12 22:04	JZ	TAL SF

Client Sample ID: SO-2344-BASE4-110712

Date Collected: 07/11/12 09:50

Date Received: 07/12/12 18:40

Lab Sample ID: 720-43231-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	117432	07/19/12 03:25	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117277	07/17/12 22:29	JZ	TAL SF

Client Sample ID: SO-2344-NSW4-110712

Date Collected: 07/11/12 09:55

Date Received: 07/12/12 18:40

Lab Sample ID: 720-43231-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	117432	07/19/12 03:49	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117277	07/17/12 22:53	JZ	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Client Sample ID: SO-2344-SSW4-110712

Lab Sample ID: 720-43231-6

Date Collected: 07/11/12 11:55

Matrix: Solid

Date Received: 07/12/12 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		1	117432	07/19/12 04:12	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117277	07/17/12 23:18	JZ	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pleasanton	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43231-1	SO-2344-NSW3-110712	Solid	07/11/12 09:15	07/12/12 18:40
720-43231-2	SO-2344-SSW3-110712	Solid	07/11/12 09:25	07/12/12 18:40
720-43231-3	SO-2344-ESW1-110712	Solid	07/11/12 09:45	07/12/12 18:40
720-43231-4	SO-2344-BASE4-110712	Solid	07/11/12 09:50	07/12/12 18:40
720-43231-5	SO-2344-NSW4-110712	Solid	07/11/12 09:55	07/12/12 18:40
720-43231-6	SO-2344-SSW4-110712	Solid	07/11/12 11:55	07/12/12 18:40

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-43231-1

Login Number: 43231

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-43300-1

Client Project/Site: UPRR- Santa Rosa

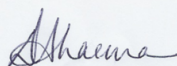
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

7/27/2012 5:27:22 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Job ID: 720-43300-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-43300-1

Comments

No additional comments.

Receipt

The samples were received on 7/13/2012 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-NSW5-110712 (720-43300-3), SO-2344-WSW2-110712 (720-43300-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Capric acid surrogate recovery for the following sample(s) was outside control limits: SO-2344-WSW2-110712 (720-43300-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-SSW6-110712

Lab Sample ID: 720-43300-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.7		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-WSW2-110712

Lab Sample ID: 720-43300-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	20		9.9		ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	37		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-NSW5-110712

Lab Sample ID: 720-43300-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	67		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	110		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	54		49		ug/Kg	10		8270C SIM	Total/NA
Chrysene	53		49		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	74		49		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	60		49		ug/Kg	10		8270C SIM	Total/NA
Pyrene	120		49		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	28		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	55		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: SO-2344-NSW6-110712

Lab Sample ID: 720-43300-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	5.6		5.0		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	7.7		5.0		ug/Kg	1		8270C SIM	Total/NA
Pyrene	25		5.0		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: SO-2344-ESW2-110712

Lab Sample ID: 720-43300-5

No Detections

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-SSW6-110712

Lab Sample ID: 720-43300-1

Date Collected: 07/11/12 14:00

Matrix: Solid

Date Received: 07/13/12 17:55

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Acenaphthylene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Anthracene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Chrysene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Fluoranthene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Fluorene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Naphthalene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Phenanthrene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Pyrene	ND		5.0		ug/Kg		07/16/12 09:14	07/27/12 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		33 - 120				07/16/12 09:14	07/27/12 14:40	1
Terphenyl-d14	62		35 - 146				07/16/12 09:14	07/27/12 14:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.7		0.99		mg/Kg		07/23/12 08:43	07/25/12 00:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/23/12 08:43	07/25/12 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 1				07/23/12 08:43	07/25/12 00:20	1
p-Terphenyl	89		38 - 148				07/23/12 08:43	07/25/12 00:20	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-WSW2-110712

Lab Sample ID: 720-43300-2

Date Collected: 07/11/12 14:05

Matrix: Solid

Date Received: 07/13/12 17:55

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Acenaphthylene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Anthracene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Benzo[a]anthracene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Benzo[a]pyrene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Benzo[b]fluoranthene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Benzo[g,h,i]perylene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Benzo[k]fluoranthene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Chrysene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Dibenz[a,h]anthracene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Fluoranthene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Fluorene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Indeno[1,2,3-cd]pyrene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Naphthalene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Phenanthrene	20		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Pyrene	ND		9.9		ug/Kg		07/16/12 09:14	07/27/12 15:03	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		33 - 120				07/16/12 09:14	07/27/12 15:03	2
Terphenyl-d14	90		35 - 146				07/16/12 09:14	07/27/12 15:03	2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	37		1.0		mg/Kg		07/23/12 08:43	07/25/12 00:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/23/12 08:43	07/25/12 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	2	X	0 - 1				07/23/12 08:43	07/25/12 00:45	1
p-Terphenyl	57		38 - 148				07/23/12 08:43	07/25/12 00:45	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-NSW5-110712

Lab Sample ID: 720-43300-3

Date Collected: 07/11/12 14:10

Matrix: Solid

Date Received: 07/13/12 17:55

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Acenaphthylene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Anthracene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Benzo[a]anthracene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Benzo[a]pyrene	67		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Benzo[b]fluoranthene	110		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Benzo[g,h,i]perylene	54		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Benzo[k]fluoranthene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Chrysene	53		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Fluoranthene	74		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Fluorene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Naphthalene	ND		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Phenanthrene	60		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Pyrene	120		49		ug/Kg		07/17/12 11:26	07/27/12 15:26	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		33 - 120				07/17/12 11:26	07/27/12 15:26	10
Terphenyl-d14	83		35 - 146				07/17/12 11:26	07/27/12 15:26	10

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28		0.98		mg/Kg		07/23/12 08:43	07/25/12 01:09	1
Motor Oil Range Organics [C24-C36]	55		49		mg/Kg		07/23/12 08:43	07/25/12 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.06		0 - 1				07/23/12 08:43	07/25/12 01:09	1
p-Terphenyl	63		38 - 148				07/23/12 08:43	07/25/12 01:09	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-NSW6-110712

Lab Sample ID: 720-43300-4

Date Collected: 07/11/12 14:15

Matrix: Solid

Date Received: 07/13/12 17:55

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Acenaphthylene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Anthracene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Chrysene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Dibenz[a,h]anthracene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Fluoranthene	5.6		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Fluorene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Naphthalene	ND		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Phenanthrene	7.7		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Pyrene	25		5.0		ug/Kg		07/17/12 11:26	07/27/12 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		33 - 120				07/17/12 11:26	07/27/12 15:50	1
Terphenyl-d14	89		35 - 146				07/17/12 11:26	07/27/12 15:50	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		07/23/12 08:43	07/25/12 01:33	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/23/12 08:43	07/25/12 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/23/12 08:43	07/25/12 01:33	1
p-Terphenyl	75		38 - 148				07/23/12 08:43	07/25/12 01:33	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-ESW2-110712

Lab Sample ID: 720-43300-5

Date Collected: 07/11/12 14:20

Matrix: Solid

Date Received: 07/13/12 17:55

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Acenaphthylene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Anthracene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Benzo[a]anthracene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Benzo[a]pyrene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Chrysene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Dibenz[a,h]anthracene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Fluoranthene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Fluorene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Naphthalene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Phenanthrene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Pyrene	ND		4.9		ug/Kg		07/17/12 11:26	07/27/12 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		33 - 120				07/17/12 11:26	07/27/12 16:13	1
Terphenyl-d14	88		35 - 146				07/17/12 11:26	07/27/12 16:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/23/12 08:43	07/25/12 01:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/23/12 08:43	07/25/12 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/23/12 08:43	07/25/12 01:58	1
p-Terphenyl	69		38 - 148				07/23/12 08:43	07/25/12 01:58	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-117200/1-A

Matrix: Solid

Analysis Batch: 117615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Acenaphthylene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Anthracene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Chrysene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Fluoranthene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Fluorene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Naphthalene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Phenanthrene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1
Pyrene	ND		5.0		ug/Kg		07/16/12 09:14	07/21/12 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		33 - 120	07/16/12 09:14	07/21/12 11:34	1
Terphenyl-d14	82		35 - 146	07/16/12 09:14	07/21/12 11:34	1

Lab Sample ID: LCS 720-117200/2-A

Matrix: Solid

Analysis Batch: 117615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	256		ug/Kg		77	49 - 120
Acenaphthylene	333	252		ug/Kg		76	52 - 120
Anthracene	333	260		ug/Kg		78	52 - 120
Benzo[a]anthracene	333	257		ug/Kg		77	52 - 120
Benzo[a]pyrene	333	273		ug/Kg		82	54 - 120
Benzo[b]fluoranthene	333	271		ug/Kg		82	51 - 120
Benzo[g,h,i]perylene	333	280		ug/Kg		84	48 - 120
Benzo[k]fluoranthene	333	273		ug/Kg		82	56 - 120
Chrysene	333	267		ug/Kg		80	40 - 120
Dibenz(a,h)anthracene	333	287		ug/Kg		86	50 - 120
Fluoranthene	333	260		ug/Kg		78	57 - 120
Fluorene	333	256		ug/Kg		77	52 - 120
Indeno[1,2,3-cd]pyrene	333	283		ug/Kg		85	48 - 120
Naphthalene	333	238		ug/Kg		72	46 - 120
Phenanthrene	333	256		ug/Kg		77	48 - 120
Pyrene	333	262		ug/Kg		79	53 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		33 - 120
Terphenyl-d14	80		35 - 146

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-117200/3-A

Matrix: Solid

Analysis Batch: 117615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117200

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	332	270		ug/Kg		81	49 - 120	5	20
Acenaphthylene	332	265		ug/Kg		80	52 - 120	5	20
Anthracene	332	278		ug/Kg		84	52 - 120	6	20
Benzo[a]anthracene	332	271		ug/Kg		81	52 - 120	5	20
Benzo[a]pyrene	332	287		ug/Kg		86	54 - 120	5	20
Benzo[b]fluoranthene	332	296		ug/Kg		89	51 - 120	9	20
Benzo[g,h,i]perylene	332	291		ug/Kg		88	48 - 120	4	20
Benzo[k]fluoranthene	332	278		ug/Kg		84	56 - 120	2	20
Chrysene	332	274		ug/Kg		83	40 - 120	3	20
Dibenz(a,h)anthracene	332	297		ug/Kg		89	50 - 120	4	20
Fluoranthene	332	273		ug/Kg		82	57 - 120	5	20
Fluorene	332	272		ug/Kg		82	52 - 120	6	20
Indeno[1,2,3-cd]pyrene	332	295		ug/Kg		89	48 - 120	4	20
Naphthalene	332	258		ug/Kg		78	46 - 120	8	20
Phenanthrene	332	276		ug/Kg		83	48 - 120	8	20
Pyrene	332	272		ug/Kg		82	53 - 120	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	79		33 - 120
Terphenyl-d14	83		35 - 146

Lab Sample ID: MB 720-117302/1-A

Matrix: Solid

Analysis Batch: 117664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Acenaphthylene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Anthracene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Chrysene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Fluoranthene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Fluorene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Naphthalene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Phenanthrene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1
Pyrene	ND		5.0		ug/Kg		07/17/12 11:26	07/23/12 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		33 - 120	07/17/12 11:26	07/23/12 13:02	1
Terphenyl-d14	93		35 - 146	07/17/12 11:26	07/23/12 13:02	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-117302/2-A

Matrix: Solid

Analysis Batch: 117664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	331	291		ug/Kg		88	49 - 120
Acenaphthylene	331	275		ug/Kg		83	52 - 120
Anthracene	331	290		ug/Kg		88	52 - 120
Benzo[a]anthracene	331	291		ug/Kg		88	52 - 120
Benzo[a]pyrene	331	306		ug/Kg		92	54 - 120
Benzo[b]fluoranthene	331	301		ug/Kg		91	51 - 120
Benzo[g,h,i]perylene	331	317		ug/Kg		95	48 - 120
Benzo[k]fluoranthene	331	316		ug/Kg		95	56 - 120
Chrysene	331	301		ug/Kg		91	40 - 120
Dibenz(a,h)anthracene	331	321		ug/Kg		97	50 - 120
Fluoranthene	331	288		ug/Kg		87	57 - 120
Fluorene	331	281		ug/Kg		85	52 - 120
Indeno[1,2,3-cd]pyrene	331	318		ug/Kg		96	48 - 120
Naphthalene	331	271		ug/Kg		82	46 - 120
Phenanthrene	331	292		ug/Kg		88	48 - 120
Pyrene	331	322		ug/Kg		97	53 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	84		33 - 120
Terphenyl-d14	94		35 - 146

Lab Sample ID: LCSD 720-117302/3-A

Matrix: Solid

Analysis Batch: 117664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	331	286		ug/Kg		86	49 - 120	2	20
Acenaphthylene	331	276		ug/Kg		83	52 - 120	0	20
Anthracene	331	289		ug/Kg		87	52 - 120	1	20
Benzo[a]anthracene	331	294		ug/Kg		89	52 - 120	1	20
Benzo[a]pyrene	331	306		ug/Kg		92	54 - 120	0	20
Benzo[b]fluoranthene	331	321		ug/Kg		97	51 - 120	6	20
Benzo[g,h,i]perylene	331	316		ug/Kg		95	48 - 120	0	20
Benzo[k]fluoranthene	331	302		ug/Kg		91	56 - 120	5	20
Chrysene	331	297		ug/Kg		90	40 - 120	1	20
Dibenz(a,h)anthracene	331	322		ug/Kg		97	50 - 120	0	20
Fluoranthene	331	290		ug/Kg		87	57 - 120	1	20
Fluorene	331	282		ug/Kg		85	52 - 120	0	20
Indeno[1,2,3-cd]pyrene	331	318		ug/Kg		96	48 - 120	0	20
Naphthalene	331	265		ug/Kg		80	46 - 120	2	20
Phenanthrene	331	292		ug/Kg		88	48 - 120	0	20
Pyrene	331	321		ug/Kg		97	53 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	83		33 - 120
Terphenyl-d14	94		35 - 146

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-117657/1-A

Matrix: Solid

Analysis Batch: 117715

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 117657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/23/12 08:43	07/24/12 18:37	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/23/12 08:43	07/24/12 18:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/23/12 08:43	07/24/12 18:37	1
p-Terphenyl	87		38 - 148				07/23/12 08:43	07/24/12 18:37	1

Lab Sample ID: LCS 720-117657/2-A

Matrix: Solid

Analysis Batch: 117715

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 117657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.2	59.0		mg/Kg		72	36 - 112
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
p-Terphenyl	58		38 - 148				

Lab Sample ID: LCSD 720-117657/3-A

Matrix: Solid

Analysis Batch: 117715

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 117657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.3	68.6		mg/Kg		83	36 - 112	15	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
p-Terphenyl	69		38 - 148						

Lab Sample ID: 720-43300-1 MS

Matrix: Solid

Analysis Batch: 117715

Client Sample ID: SO-2344-SSW6-110712

Prep Type: Silica Gel Cleanup

Prep Batch: 117657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.7		83.0	67.0		mg/Kg		77	50 - 150
Surrogate	MS %Recovery	MS Qualifier	Limits						
p-Terphenyl	55		38 - 148						

Lab Sample ID: 720-43300-1 MSD

Matrix: Solid

Analysis Batch: 117715

Client Sample ID: SO-2344-SSW6-110712

Prep Type: Silica Gel Cleanup

Prep Batch: 117657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.7		83.3	61.4		mg/Kg		70	50 - 150	9	30

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-43300-1 MSD

Matrix: Solid

Analysis Batch: 117715

Client Sample ID: SO-2344-SSW6-110712

Prep Type: Silica Gel Cleanup

Prep Batch: 117657

Surrogate	MSD		Limits
	%Recovery	Qualifier	
p-Terphenyl	55		38 - 148

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

GC/MS Semi VOA

Prep Batch: 117200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43300-1	SO-2344-SSW6-110712	Total/NA	Solid	3546	
720-43300-2	SO-2344-WSW2-110712	Total/NA	Solid	3546	
LCS 720-117200/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-117200/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-117200/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 117302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43300-3	SO-2344-NSW5-110712	Total/NA	Solid	3546	
720-43300-4	SO-2344-NSW6-110712	Total/NA	Solid	3546	
720-43300-5	SO-2344-ESW2-110712	Total/NA	Solid	3546	
LCS 720-117302/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-117302/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-117302/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 117615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117200/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	117200
LCSD 720-117200/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	117200
MB 720-117200/1-A	Method Blank	Total/NA	Solid	8270C SIM	117200

Analysis Batch: 117664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117302/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	117302
LCSD 720-117302/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	117302
MB 720-117302/1-A	Method Blank	Total/NA	Solid	8270C SIM	117302

Analysis Batch: 117965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43300-1	SO-2344-SSW6-110712	Total/NA	Solid	8270C SIM	117200
720-43300-2	SO-2344-WSW2-110712	Total/NA	Solid	8270C SIM	117200
720-43300-3	SO-2344-NSW5-110712	Total/NA	Solid	8270C SIM	117302
720-43300-4	SO-2344-NSW6-110712	Total/NA	Solid	8270C SIM	117302
720-43300-5	SO-2344-ESW2-110712	Total/NA	Solid	8270C SIM	117302

GC Semi VOA

Prep Batch: 117657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43300-1	SO-2344-SSW6-110712	Silica Gel Cleanup	Solid	3546	
720-43300-1 MS	SO-2344-SSW6-110712	Silica Gel Cleanup	Solid	3546	
720-43300-1 MSD	SO-2344-SSW6-110712	Silica Gel Cleanup	Solid	3546	
720-43300-2	SO-2344-WSW2-110712	Silica Gel Cleanup	Solid	3546	
720-43300-3	SO-2344-NSW5-110712	Silica Gel Cleanup	Solid	3546	
720-43300-4	SO-2344-NSW6-110712	Silica Gel Cleanup	Solid	3546	
720-43300-5	SO-2344-ESW2-110712	Silica Gel Cleanup	Solid	3546	
LCS 720-117657/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-117657/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-117657/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

GC Semi VOA (Continued)

Analysis Batch: 117715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43300-1	SO-2344-SSW6-110712	Silica Gel Cleanup	Solid	8015B	117657
720-43300-1 MS	SO-2344-SSW6-110712	Silica Gel Cleanup	Solid	8015B	117657
720-43300-1 MSD	SO-2344-SSW6-110712	Silica Gel Cleanup	Solid	8015B	117657
720-43300-2	SO-2344-WSW2-110712	Silica Gel Cleanup	Solid	8015B	117657
720-43300-3	SO-2344-NSW5-110712	Silica Gel Cleanup	Solid	8015B	117657
720-43300-4	SO-2344-NSW6-110712	Silica Gel Cleanup	Solid	8015B	117657
720-43300-5	SO-2344-ESW2-110712	Silica Gel Cleanup	Solid	8015B	117657
LCS 720-117657/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	117657
LCSD 720-117657/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	117657
MB 720-117657/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	117657

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Client Sample ID: SO-2344-SSW6-110712

Date Collected: 07/11/12 14:00

Date Received: 07/13/12 17:55

Lab Sample ID: 720-43300-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117200	07/16/12 09:14	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117965	07/27/12 14:40	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117657	07/23/12 08:43	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117715	07/25/12 00:20	DH	TAL SF

Client Sample ID: SO-2344-WSW2-110712

Date Collected: 07/11/12 14:05

Date Received: 07/13/12 17:55

Lab Sample ID: 720-43300-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117200	07/16/12 09:14	MP	TAL SF
Total/NA	Analysis	8270C SIM		2	117965	07/27/12 15:03	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117657	07/23/12 08:43	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117715	07/25/12 00:45	DH	TAL SF

Client Sample ID: SO-2344-NSW5-110712

Date Collected: 07/11/12 14:10

Date Received: 07/13/12 17:55

Lab Sample ID: 720-43300-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117302	07/17/12 11:26	MP	TAL SF
Total/NA	Analysis	8270C SIM		10	117965	07/27/12 15:26	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117657	07/23/12 08:43	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117715	07/25/12 01:09	DH	TAL SF

Client Sample ID: SO-2344-NSW6-110712

Date Collected: 07/11/12 14:15

Date Received: 07/13/12 17:55

Lab Sample ID: 720-43300-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117302	07/17/12 11:26	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117965	07/27/12 15:50	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117657	07/23/12 08:43	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117715	07/25/12 01:33	DH	TAL SF

Client Sample ID: SO-2344-ESW2-110712

Date Collected: 07/11/12 14:20

Date Received: 07/13/12 17:55

Lab Sample ID: 720-43300-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			117302	07/17/12 11:26	MP	TAL SF
Total/NA	Analysis	8270C SIM		1	117965	07/27/12 16:13	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117657	07/23/12 08:43	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117715	07/25/12 01:58	DH	TAL SF

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43300-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43300-1	SO-2344-SSW6-110712	Solid	07/11/12 14:00	07/13/12 17:55
720-43300-2	SO-2344-WSW2-110712	Solid	07/11/12 14:05	07/13/12 17:55
720-43300-3	SO-2344-NSW5-110712	Solid	07/11/12 14:10	07/13/12 17:55
720-43300-4	SO-2344-NSW6-110712	Solid	07/11/12 14:15	07/13/12 17:55
720-43300-5	SO-2344-ESW2-110712	Solid	07/11/12 14:20	07/13/12 17:55

Note: By relinquishing samples to Test America, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-43300-1

Login Number: 43300

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Appendix F

Certified Laboratory Analytical Reports – Waste

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-43270-1

Client Project/Site: UPRR- Santa Rosa

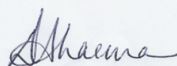
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

7/17/2012 12:50:24 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Job ID: 720-43270-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-43270-1

Comments

No additional comments.

Receipt

The samples were received on 7/13/2012 7:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

Except:

Received 4 trip blank vials not listed on coc. Logged on hold.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 6010B: The continuing calibration verification (CCV) associated with analysis batch 117168 recovered above the upper control limit for Cr. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 720-43270-k-1

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Client Sample ID: W-2344-COMP-120712

Lab Sample ID: 720-43270-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1900		53		ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	6100		110		ug/L	1		8015B	Silica Gel Cleanup
Lead	0.0060		0.0050		mg/L	1		6010B	Dissolved
Zinc	0.023		0.020		mg/L	1		6010B	Dissolved

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Client Sample ID: W-2344-COMP-120712

Lab Sample ID: 720-43270-1

Date Collected: 07/12/12 08:30

Matrix: Water

Date Received: 07/13/12 07:10

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/13/12 14:58	1
Acetone	ND		50		ug/L			07/13/12 14:58	1
Benzene	ND		0.50		ug/L			07/13/12 14:58	1
Dichlorobromomethane	ND		0.50		ug/L			07/13/12 14:58	1
Bromobenzene	ND		1.0		ug/L			07/13/12 14:58	1
Chlorobromomethane	ND		1.0		ug/L			07/13/12 14:58	1
Bromoform	ND		1.0		ug/L			07/13/12 14:58	1
Bromomethane	ND		1.0		ug/L			07/13/12 14:58	1
2-Butanone (MEK)	ND		50		ug/L			07/13/12 14:58	1
n-Butylbenzene	ND		1.0		ug/L			07/13/12 14:58	1
sec-Butylbenzene	ND		1.0		ug/L			07/13/12 14:58	1
tert-Butylbenzene	ND		1.0		ug/L			07/13/12 14:58	1
Carbon disulfide	ND		5.0		ug/L			07/13/12 14:58	1
Carbon tetrachloride	ND		0.50		ug/L			07/13/12 14:58	1
Chlorobenzene	ND		0.50		ug/L			07/13/12 14:58	1
Chloroethane	ND		1.0		ug/L			07/13/12 14:58	1
Chloroform	ND		1.0		ug/L			07/13/12 14:58	1
Chloromethane	ND		1.0		ug/L			07/13/12 14:58	1
2-Chlorotoluene	ND		0.50		ug/L			07/13/12 14:58	1
4-Chlorotoluene	ND		0.50		ug/L			07/13/12 14:58	1
Chlorodibromomethane	ND		0.50		ug/L			07/13/12 14:58	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/13/12 14:58	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/13/12 14:58	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/13/12 14:58	1
1,3-Dichloropropane	ND		1.0		ug/L			07/13/12 14:58	1
1,1-Dichloropropene	ND		0.50		ug/L			07/13/12 14:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/13/12 14:58	1
Ethylene Dibromide	ND		0.50		ug/L			07/13/12 14:58	1
Dibromomethane	ND		0.50		ug/L			07/13/12 14:58	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/13/12 14:58	1
1,1-Dichloroethane	ND		0.50		ug/L			07/13/12 14:58	1
1,2-Dichloroethane	ND		0.50		ug/L			07/13/12 14:58	1
1,1-Dichloroethene	ND		0.50		ug/L			07/13/12 14:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/13/12 14:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/13/12 14:58	1
1,2-Dichloropropane	ND		0.50		ug/L			07/13/12 14:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/13/12 14:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/13/12 14:58	1
Ethylbenzene	ND		0.50		ug/L			07/13/12 14:58	1
Hexachlorobutadiene	ND		1.0		ug/L			07/13/12 14:58	1
2-Hexanone	ND		50		ug/L			07/13/12 14:58	1
Isopropylbenzene	ND		0.50		ug/L			07/13/12 14:58	1
4-Isopropyltoluene	ND		1.0		ug/L			07/13/12 14:58	1
Methylene Chloride	ND		5.0		ug/L			07/13/12 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/13/12 14:58	1
Naphthalene	ND		1.0		ug/L			07/13/12 14:58	1
N-Propylbenzene	ND		1.0		ug/L			07/13/12 14:58	1
Styrene	ND		0.50		ug/L			07/13/12 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/13/12 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/13/12 14:58	1
Tetrachloroethene	ND		0.50		ug/L			07/13/12 14:58	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Client Sample ID: W-2344-COMP-120712

Lab Sample ID: 720-43270-1

Date Collected: 07/12/12 08:30

Matrix: Water

Date Received: 07/13/12 07:10

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			07/13/12 14:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/13/12 14:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/13/12 14:58	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/13/12 14:58	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/13/12 14:58	1
Trichloroethene	ND		0.50		ug/L			07/13/12 14:58	1
Trichlorofluoromethane	ND		1.0		ug/L			07/13/12 14:58	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/13/12 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/13/12 14:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/13/12 14:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/13/12 14:58	1
Vinyl acetate	ND		10		ug/L			07/13/12 14:58	1
Vinyl chloride	ND		0.50		ug/L			07/13/12 14:58	1
Xylenes, Total	ND		1.0		ug/L			07/13/12 14:58	1
2,2-Dichloropropane	ND		0.50		ug/L			07/13/12 14:58	1
Gasoline Range Organics (GRO)	ND		50		ug/L			07/13/12 14:58	1
-C5-C12									
TBA	ND		4.0		ug/L			07/13/12 14:58	1
DIPE	ND		0.50		ug/L			07/13/12 14:58	1
TAME	ND		0.50		ug/L			07/13/12 14:58	1
Ethyl t-butyl ether	ND		0.50		ug/L			07/13/12 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130					07/13/12 14:58	1
1,2-Dichloroethane-d4 (Surr)	122		75 - 138					07/13/12 14:58	1
Toluene-d8 (Surr)	95		70 - 130					07/13/12 14:58	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Acenaphthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Acenaphthylene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Fluorene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Phenanthrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Anthracene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Benzo[a]anthracene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Chrysene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Benzo[a]pyrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Fluoranthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Pyrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	51		29 - 120				07/13/12 10:47	07/14/12 02:21	1
Terphenyl-d14	52		45 - 120				07/13/12 10:47	07/14/12 02:21	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Client Sample ID: W-2344-COMP-120712

Lab Sample ID: 720-43270-1

Date Collected: 07/12/12 08:30

Matrix: Water

Date Received: 07/13/12 07:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Bis(2-chloroethyl)ether	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Chlorophenol	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
1,3-Dichlorobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
1,4-Dichlorobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzyl alcohol	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
1,2-Dichlorobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Methylphenol	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Methylphenol	ND		8.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
N-Nitrosodi-n-propylamine	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Hexachloroethane	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Nitrobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Isophorone	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Nitrophenol	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,4-Dimethylphenol	ND		3.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Bis(2-chloroethoxy)methane	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,4-Dichlorophenol	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
1,2,4-Trichlorobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Naphthalene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Chloroaniline	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Hexachlorobutadiene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Chloro-3-methylphenol	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Methylnaphthalene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Hexachlorocyclopentadiene	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,4,6-Trichlorophenol	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,4,5-Trichlorophenol	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Chloronaphthalene	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Nitroaniline	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
Dimethyl phthalate	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Acenaphthylene	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
3-Nitroaniline	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Acenaphthene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,4-Dinitrophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Nitrophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
Dibenzofuran	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,4-Dinitrotoluene	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
2,6-Dinitrotoluene	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Diethyl phthalate	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Chlorophenyl phenyl ether	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Fluorene	ND		4.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Nitroaniline	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
2-Methyl-4,6-dinitrophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
N-Nitrosodiphenylamine	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
4-Bromophenyl phenyl ether	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Hexachlorobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Pentachlorophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
Phenanthrene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Anthracene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Di-n-butyl phthalate	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Fluoranthene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Pyrene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Client Sample ID: W-2344-COMP-120712

Lab Sample ID: 720-43270-1

Date Collected: 07/12/12 08:30

Matrix: Water

Date Received: 07/13/12 07:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
3,3'-Dichlorobenzidine	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzo[a]anthracene	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
Chrysene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Di-n-octyl phthalate	ND		5.2		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzo[b]fluoranthene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzo[a]pyrene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzo[k]fluoranthene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Indeno[1,2,3-cd]pyrene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzo[g,h,i]perylene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Benzoic acid	ND		10		ug/L		07/16/12 07:24	07/16/12 13:51	1
Azobenzene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1
Dibenz(a,h)anthracene	ND		2.1		ug/L		07/16/12 07:24	07/16/12 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		25 - 102	07/16/12 07:24	07/16/12 13:51	1
2-Fluorobiphenyl	73		10 - 101	07/16/12 07:24	07/16/12 13:51	1
Terphenyl-d14	67		57 - 117	07/16/12 07:24	07/16/12 13:51	1
2-Fluorophenol	34		10 - 65	07/16/12 07:24	07/16/12 13:51	1
Phenol-d5	20		10 - 46	07/16/12 07:24	07/16/12 13:51	1
2,4,6-Tribromophenol	82		18 - 123	07/16/12 07:24	07/16/12 13:51	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1900		53		ug/L		07/13/12 10:45	07/16/12 15:54	1
Motor Oil Range Organics [C24-C36]	6100		110		ug/L		07/13/12 10:45	07/16/12 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.04		0 - 5	07/13/12 10:45	07/16/12 15:54	1
p-Terphenyl	35		31 - 150	07/13/12 10:45	07/16/12 15:54	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0025		mg/L		07/13/12 14:09	07/14/12 10:46	1
Chromium	ND		0.010		mg/L		07/13/12 14:09	07/14/12 10:46	1
Nickel	ND		0.010		mg/L		07/13/12 14:09	07/14/12 10:46	1
Lead	ND		0.0050		mg/L		07/13/12 14:09	07/14/12 10:46	1
Zinc	ND		0.020		mg/L		07/13/12 14:09	07/14/12 10:46	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		07/16/12 10:05	07/16/12 14:19	1
Chromium	ND		0.010		mg/L		07/16/12 10:05	07/16/12 14:19	1
Nickel	ND		0.010		mg/L		07/16/12 10:05	07/16/12 14:19	1
Lead	0.0060		0.0050		mg/L		07/16/12 10:05	07/16/12 14:19	1
Zinc	0.023		0.020		mg/L		07/16/12 10:05	07/16/12 14:19	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-117089/6

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/13/12 08:57	1
Acetone	ND		50		ug/L			07/13/12 08:57	1
Benzene	ND		0.50		ug/L			07/13/12 08:57	1
Dichlorobromomethane	ND		0.50		ug/L			07/13/12 08:57	1
Bromobenzene	ND		1.0		ug/L			07/13/12 08:57	1
Chlorobromomethane	ND		1.0		ug/L			07/13/12 08:57	1
Bromoform	ND		1.0		ug/L			07/13/12 08:57	1
Bromomethane	ND		1.0		ug/L			07/13/12 08:57	1
2-Butanone (MEK)	ND		50		ug/L			07/13/12 08:57	1
n-Butylbenzene	ND		1.0		ug/L			07/13/12 08:57	1
sec-Butylbenzene	ND		1.0		ug/L			07/13/12 08:57	1
tert-Butylbenzene	ND		1.0		ug/L			07/13/12 08:57	1
Carbon disulfide	ND		5.0		ug/L			07/13/12 08:57	1
Carbon tetrachloride	ND		0.50		ug/L			07/13/12 08:57	1
Chlorobenzene	ND		0.50		ug/L			07/13/12 08:57	1
Chloroethane	ND		1.0		ug/L			07/13/12 08:57	1
Chloroform	ND		1.0		ug/L			07/13/12 08:57	1
Chloromethane	ND		1.0		ug/L			07/13/12 08:57	1
2-Chlorotoluene	ND		0.50		ug/L			07/13/12 08:57	1
4-Chlorotoluene	ND		0.50		ug/L			07/13/12 08:57	1
Chlorodibromomethane	ND		0.50		ug/L			07/13/12 08:57	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/13/12 08:57	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/13/12 08:57	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/13/12 08:57	1
1,3-Dichloropropane	ND		1.0		ug/L			07/13/12 08:57	1
1,1-Dichloropropene	ND		0.50		ug/L			07/13/12 08:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/13/12 08:57	1
Ethylene Dibromide	ND		0.50		ug/L			07/13/12 08:57	1
Dibromomethane	ND		0.50		ug/L			07/13/12 08:57	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/13/12 08:57	1
1,1-Dichloroethane	ND		0.50		ug/L			07/13/12 08:57	1
1,2-Dichloroethane	ND		0.50		ug/L			07/13/12 08:57	1
1,1-Dichloroethene	ND		0.50		ug/L			07/13/12 08:57	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/13/12 08:57	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/13/12 08:57	1
1,2-Dichloropropane	ND		0.50		ug/L			07/13/12 08:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/13/12 08:57	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/13/12 08:57	1
Ethylbenzene	ND		0.50		ug/L			07/13/12 08:57	1
Hexachlorobutadiene	ND		1.0		ug/L			07/13/12 08:57	1
2-Hexanone	ND		50		ug/L			07/13/12 08:57	1
Isopropylbenzene	ND		0.50		ug/L			07/13/12 08:57	1
4-Isopropyltoluene	ND		1.0		ug/L			07/13/12 08:57	1
Methylene Chloride	ND		5.0		ug/L			07/13/12 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/13/12 08:57	1
Naphthalene	ND		1.0		ug/L			07/13/12 08:57	1
N-Propylbenzene	ND		1.0		ug/L			07/13/12 08:57	1
Styrene	ND		0.50		ug/L			07/13/12 08:57	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/13/12 08:57	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-117089/6

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/13/12 08:57	1
Tetrachloroethene	ND		0.50		ug/L			07/13/12 08:57	1
Toluene	ND		0.50		ug/L			07/13/12 08:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/13/12 08:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/13/12 08:57	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/13/12 08:57	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/13/12 08:57	1
Trichloroethene	ND		0.50		ug/L			07/13/12 08:57	1
Trichlorofluoromethane	ND		1.0		ug/L			07/13/12 08:57	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/13/12 08:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/13/12 08:57	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/13/12 08:57	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/13/12 08:57	1
Vinyl acetate	ND		10		ug/L			07/13/12 08:57	1
Vinyl chloride	ND		0.50		ug/L			07/13/12 08:57	1
Xylenes, Total	ND		1.0		ug/L			07/13/12 08:57	1
2,2-Dichloropropane	ND		0.50		ug/L			07/13/12 08:57	1
Gasoline Range Organics (GRO)	ND		50		ug/L			07/13/12 08:57	1
-C5-C12									
TBA	ND		4.0		ug/L			07/13/12 08:57	1
DIPE	ND		0.50		ug/L			07/13/12 08:57	1
TAME	ND		0.50		ug/L			07/13/12 08:57	1
Ethyl t-butyl ether	ND		0.50		ug/L			07/13/12 08:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130		07/13/12 08:57	1
1,2-Dichloroethane-d4 (Surr)	103		75 - 138		07/13/12 08:57	1
Toluene-d8 (Surr)	95		70 - 130		07/13/12 08:57	1

Lab Sample ID: LCS 720-117089/7

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	29.2		ug/L		117	62 - 130
Acetone	125	96.3		ug/L		77	26 - 180
Benzene	25.0	21.7		ug/L		87	79 - 130
Dichlorobromomethane	25.0	28.3		ug/L		113	70 - 130
Bromobenzene	25.0	22.3		ug/L		89	70 - 130
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Bromoform	25.0	24.2		ug/L		97	68 - 136
Bromomethane	25.0	27.1		ug/L		108	43 - 151
2-Butanone (MEK)	125	119		ug/L		95	54 - 130
n-Butylbenzene	25.0	25.1		ug/L		100	70 - 142
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 134
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 135
Carbon disulfide	25.0	19.8		ug/L		79	58 - 130
Carbon tetrachloride	25.0	28.3		ug/L		113	70 - 146
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130
Chloroethane	25.0	26.5		ug/L		106	62 - 138

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-117089/7

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	24.6		ug/L		98	70 - 130
Chloromethane	25.0	22.4		ug/L		90	52 - 175
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130
4-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 145
1,2-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130
1,3-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 136
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130
Dibromomethane	25.0	24.1		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	21.4		ug/L		86	34 - 132
1,1-Dichloroethane	25.0	23.0		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	23.9		ug/L		96	61 - 132
1,1-Dichloroethene	25.0	21.6		ug/L		86	64 - 128
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	19.4		ug/L		78	68 - 130
1,2-Dichloropropane	25.0	21.9		ug/L		88	70 - 130
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 140
Ethylbenzene	25.0	22.8		ug/L		91	80 - 120
Hexachlorobutadiene	25.0	23.2		ug/L		93	70 - 130
2-Hexanone	125	116		ug/L		93	60 - 164
Isopropylbenzene	25.0	24.4		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	58 - 130
Naphthalene	25.0	25.1		ug/L		100	70 - 130
N-Propylbenzene	25.0	23.5		ug/L		94	70 - 130
Styrene	25.0	24.1		ug/L		96	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
Tetrachloroethene	25.0	22.2		ug/L		89	70 - 130
Toluene	25.0	22.1		ug/L		88	78 - 120
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130
Trichloroethene	25.0	21.8		ug/L		87	70 - 130
Trichlorofluoromethane	25.0	26.3		ug/L		105	66 - 132
1,2,3-Trichloropropane	25.0	26.1		ug/L		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.6		ug/L		98	42 - 162
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 132
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
Vinyl acetate	25.0	25.0		ug/L		100	43 - 163
Vinyl chloride	25.0	24.9		ug/L		100	54 - 135
m-Xylene & p-Xylene	50.0	47.1		ug/L		94	70 - 142

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-117089/7

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	25.0	24.3		ug/L		97	70 - 130
2,2-Dichloropropane	25.0	29.1		ug/L		116	70 - 140
TBA	500	486		ug/L		97	70 - 130
DIPE	25.0	23.3		ug/L		93	69 - 134
TAME	25.0	30.5		ug/L		122	79 - 130
Ethyl t-butyl ether	25.0	26.8		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		75 - 138
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCS 720-117089/9

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)	500	491		ug/L		98	62 - 120
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	103		75 - 138
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-117089/10

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	500	450		ug/L		90	62 - 120	9	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	103		75 - 138
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 720-117089/8

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	29.4		ug/L		118	62 - 130	1	20
Acetone	125	92.5		ug/L		74	26 - 180	4	30
Benzene	25.0	22.9		ug/L		92	79 - 130	5	20
Dichlorobromomethane	25.0	29.1		ug/L		116	70 - 130	3	20
Bromobenzene	25.0	23.6		ug/L		94	70 - 130	6	20
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130	4	20

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-117089/8

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	24.8		ug/L		99	68 - 136	2	20
Bromomethane	25.0	28.3		ug/L		113	43 - 151	4	20
2-Butanone (MEK)	125	113		ug/L		90	54 - 130	6	20
n-Butylbenzene	25.0	27.4		ug/L		110	70 - 142	9	20
sec-Butylbenzene	25.0	26.6		ug/L		106	70 - 134	9	20
tert-Butylbenzene	25.0	27.0		ug/L		108	70 - 135	8	20
Carbon disulfide	25.0	21.4		ug/L		86	58 - 130	8	20
Carbon tetrachloride	25.0	29.8		ug/L		119	70 - 146	5	20
Chlorobenzene	25.0	24.0		ug/L		96	70 - 130	6	20
Chloroethane	25.0	27.9		ug/L		112	62 - 138	5	20
Chloroform	25.0	25.7		ug/L		103	70 - 130	4	20
Chloromethane	25.0	23.8		ug/L		95	52 - 175	6	20
2-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130	7	20
4-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	6	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 145	3	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	6	20
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	6	20
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	5	20
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	3	20
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 136	1	20
Ethylene Dibromide	25.0	26.0		ug/L		104	70 - 130	1	20
Dibromomethane	25.0	24.7		ug/L		99	70 - 130	2	20
Dichlorodifluoromethane	25.0	22.2		ug/L		89	34 - 132	4	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	5	20
1,2-Dichloroethane	25.0	24.5		ug/L		98	61 - 132	2	20
1,1-Dichloroethene	25.0	23.0		ug/L		92	64 - 128	6	20
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	20.7		ug/L		83	68 - 130	6	20
1,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 140	2	20
Ethylbenzene	25.0	24.8		ug/L		99	80 - 120	8	20
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130	7	20
2-Hexanone	125	109		ug/L		87	60 - 164	6	20
Isopropylbenzene	25.0	26.3		ug/L		105	70 - 130	7	20
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130	7	20
Methylene Chloride	25.0	23.9		ug/L		96	70 - 147	5	20
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		91	58 - 130	3	20
Naphthalene	25.0	26.2		ug/L		105	70 - 130	4	20
N-Propylbenzene	25.0	25.4		ug/L		102	70 - 130	8	20
Styrene	25.0	25.6		ug/L		102	70 - 130	6	20
1,1,1,2-Tetrachloroethane	25.0	27.2		ug/L		109	70 - 130	7	20
1,1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
Tetrachloroethene	25.0	23.4		ug/L		94	70 - 130	5	20
Toluene	25.0	23.8		ug/L		95	78 - 120	7	20
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130	6	20
1,1,1-Trichloroethane	25.0	28.3		ug/L		113	70 - 130	5	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	3	20

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-117089/8

Matrix: Water

Analysis Batch: 117089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	25.0	23.3		ug/L		93	70 - 130	7	20
Trichlorofluoromethane	25.0	27.2		ug/L		109	66 - 132	3	20
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.7		ug/L		103	42 - 162	4	20
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 132	8	20
1,3,5-Trimethylbenzene	25.0	27.3		ug/L		109	70 - 130	7	20
Vinyl acetate	25.0	23.6		ug/L		94	43 - 163	6	20
Vinyl chloride	25.0	26.9		ug/L		108	54 - 135	8	20
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	70 - 142	7	20
o-Xylene	25.0	25.8		ug/L		103	70 - 130	6	20
2,2-Dichloropropane	25.0	31.4		ug/L		126	70 - 140	8	20
TBA	500	510		ug/L		102	70 - 130	5	20
DIPE	25.0	24.4		ug/L		98	69 - 134	5	20
TAME	25.0	31.4		ug/L		126	79 - 130	3	20
Ethyl t-butyl ether	25.0	27.6		ug/L		110	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		75 - 138
Toluene-d8 (Surr)	99		70 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-117180/1-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Bis(2-chloroethyl)ether	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Chlorophenol	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
1,3-Dichlorobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
1,4-Dichlorobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzyl alcohol	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
1,2-Dichlorobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Methylphenol	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Methylphenol	ND		8.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
N-Nitrosodi-n-propylamine	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Hexachloroethane	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Nitrobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Isophorone	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Nitrophenol	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,4-Dimethylphenol	ND		3.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Bis(2-chloroethoxy)methane	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,4-Dichlorophenol	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Naphthalene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Chloroaniline	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-117180/1-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Chloro-3-methylphenol	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Methylnaphthalene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Hexachlorocyclopentadiene	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,4,6-Trichlorophenol	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,4,5-Trichlorophenol	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Chloronaphthalene	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Nitroaniline	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
Dimethyl phthalate	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Acenaphthylene	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
3-Nitroaniline	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Acenaphthene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,4-Dinitrophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Nitrophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
Dibenzofuran	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,4-Dinitrotoluene	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
2,6-Dinitrotoluene	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Diethyl phthalate	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Chlorophenyl phenyl ether	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Fluorene	ND		4.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Nitroaniline	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
2-Methyl-4,6-dinitrophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
N-Nitrosodiphenylamine	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
4-Bromophenyl phenyl ether	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Hexachlorobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Pentachlorophenol	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
Phenanthrene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Anthracene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Di-n-butyl phthalate	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Fluoranthene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Pyrene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Butyl benzyl phthalate	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
3,3'-Dichlorobenzidine	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzo[a]anthracene	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
Chrysene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Di-n-octyl phthalate	ND		5.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzo[b]fluoranthene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzo[a]pyrene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzo[k]fluoranthene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Benzoic acid	ND		10		ug/L		07/16/12 07:24	07/16/12 13:27	1
Azobenzene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		07/16/12 07:24	07/16/12 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		25 - 102	07/16/12 07:24	07/16/12 13:27	1
2-Fluorobiphenyl	62		10 - 101	07/16/12 07:24	07/16/12 13:27	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-117180/1-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117180

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	87		57 - 117	07/16/12 07:24	07/16/12 13:27	1
2-Fluorophenol	31		10 - 65	07/16/12 07:24	07/16/12 13:27	1
Phenol-d5	19		10 - 46	07/16/12 07:24	07/16/12 13:27	1
2,4,6-Tribromophenol	84		18 - 123	07/16/12 07:24	07/16/12 13:27	1

Lab Sample ID: LCS 720-117180/2-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	50.0	9.60		ug/L		19	10 - 115
Bis(2-chloroethyl)ether	50.0	29.7		ug/L		59	12 - 115
2-Chlorophenol	50.0	24.0		ug/L		48	14 - 115
1,3-Dichlorobenzene	50.0	8.98		ug/L		18	13 - 115
1,4-Dichlorobenzene	50.0	9.06		ug/L		18	14 - 115
Benzyl alcohol	50.0	23.4		ug/L		47	19 - 115
1,2-Dichlorobenzene	50.0	9.82		ug/L		20	17 - 115
2-Methylphenol	50.0	21.2		ug/L		42	13 - 115
4-Methylphenol	100	36.3		ug/L		36	10 - 115
N-Nitrosodi-n-propylamine	50.0	29.5		ug/L		59	17 - 115
Hexachloroethane	50.0	7.24		ug/L		14	9 - 115
Nitrobenzene	50.0	25.9		ug/L		52	18 - 115
Isophorone	50.0	32.3		ug/L		65	18 - 134
2-Nitrophenol	50.0	28.6		ug/L		57	14 - 115
2,4-Dimethylphenol	50.0	26.6		ug/L		53	10 - 119
Bis(2-chloroethoxy)methane	50.0	30.5		ug/L		61	10 - 119
2,4-Dichlorophenol	50.0	28.2		ug/L		56	13 - 118
1,2,4-Trichlorobenzene	50.0	14.1		ug/L		28	17 - 115
Naphthalene	50.0	17.7		ug/L		35	12 - 115
4-Chloroaniline	50.0	28.8		ug/L		58	26 - 115
Hexachlorobutadiene	50.0	9.45		ug/L		19	12 - 115
4-Chloro-3-methylphenol	50.0	30.8		ug/L		62	19 - 128
2-Methylnaphthalene	50.0	22.2		ug/L		44	16 - 115
Hexachlorocyclopentadiene	50.0	18.1		ug/L		36	10 - 115
2,4,6-Trichlorophenol	50.0	33.6		ug/L		67	20 - 120
2,4,5-Trichlorophenol	50.0	33.2		ug/L		66	22 - 117
2-Chloronaphthalene	50.0	27.9		ug/L		56	17 - 115
2-Nitroaniline	50.0	40.3		ug/L		81	37 - 119
Dimethyl phthalate	50.0	40.7		ug/L		81	48 - 127
Acenaphthylene	50.0	34.1		ug/L		68	29 - 129
3-Nitroaniline	50.0	39.5		ug/L		79	40 - 115
Acenaphthene	50.0	31.2		ug/L		62	25 - 115
2,4-Dinitrophenol	50.0	44.2		ug/L		88	44 - 116
4-Nitrophenol	50.0	18.6		ug/L		37	20 - 115
Dibenzofuran	50.0	32.8		ug/L		66	28 - 115
2,4-Dinitrotoluene	50.0	48.6		ug/L		97	61 - 118
2,6-Dinitrotoluene	50.0	41.4		ug/L		83	46 - 119
Diethyl phthalate	50.0	44.3		ug/L		89	59 - 115
4-Chlorophenyl phenyl ether	50.0	35.6		ug/L		71	32 - 115

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-117180/2-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	50.0	36.2		ug/L		72	39 - 115
4-Nitroaniline	50.0	46.0		ug/L		92	67 - 115
2-Methyl-4,6-dinitrophenol	50.0	46.4		ug/L		93	53 - 115
N-Nitrosodiphenylamine	50.0	41.7		ug/L		83	57 - 115
4-Bromophenyl phenyl ether	50.0	39.0		ug/L		78	42 - 115
Hexachlorobenzene	50.0	42.3		ug/L		85	49 - 115
Pentachlorophenol	50.0	44.3		ug/L		89	54 - 115
Phenanthrene	50.0	41.4		ug/L		83	54 - 115
Anthracene	50.0	42.7		ug/L		85	54 - 115
Di-n-butyl phthalate	50.0	43.6		ug/L		87	58 - 115
Fluoranthene	50.0	44.4		ug/L		89	65 - 115
Pyrene	50.0	44.5		ug/L		89	64 - 122
Butyl benzyl phthalate	50.0	48.6		ug/L		97	37 - 115
3,3'-Dichlorobenzidine	50.0	43.0		ug/L		86	24 - 110
Benzo[a]anthracene	50.0	44.7		ug/L		89	63 - 116
Bis(2-ethylhexyl) phthalate	50.0	49.5		ug/L		99	59 - 115
Chrysene	50.0	47.4		ug/L		95	70 - 115
Di-n-octyl phthalate	50.0	48.8		ug/L		98	12 - 115
Benzo[b]fluoranthene	50.0	38.0		ug/L		76	66 - 115
Benzo[a]pyrene	50.0	41.9		ug/L		84	62 - 121
Benzo[k]fluoranthene	50.0	47.4		ug/L		95	66 - 115
Indeno[1,2,3-cd]pyrene	50.0	46.5		ug/L		93	68 - 115
Benzo[g,h,i]perylene	50.0	48.2		ug/L		96	67 - 128
Benzoic acid	50.0	16.7		ug/L		33	10 - 115
Azobenzene	50.0	36.1		ug/L		72	42 - 115
Dibenz(a,h)anthracene	50.0	48.1		ug/L		96	65 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	59		25 - 102
2-Fluorobiphenyl	58		10 - 101
Terphenyl-d14	91		57 - 117
2-Fluorophenol	27		10 - 65
Phenol-d5	18		10 - 46
2,4,6-Tribromophenol	85		18 - 123

Lab Sample ID: LCSD 720-117180/3-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Phenol	50.0	12.1		ug/L		24	10 - 115	23	51
Bis(2-chloroethyl)ether	50.0	36.8		ug/L		74	12 - 115	21	35
2-Chlorophenol	50.0	29.5		ug/L		59	14 - 115	21	40
1,3-Dichlorobenzene	50.0	11.0		ug/L		22	13 - 115	20	40
1,4-Dichlorobenzene	50.0	11.2		ug/L		22	14 - 115	21	41
Benzyl alcohol	50.0	27.6		ug/L		55	19 - 115	16	35
1,2-Dichlorobenzene	50.0	11.9		ug/L		24	17 - 115	19	35
2-Methylphenol	50.0	26.3		ug/L		53	13 - 115	21	35
4-Methylphenol	100	44.9		ug/L		45	10 - 115	21	35

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-117180/3-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
N-Nitrosodi-n-propylamine	50.0	36.3		ug/L		73	17 - 115		21	34
Hexachloroethane	50.0	8.60		ug/L		17	9 - 115		17	35
Nitrobenzene	50.0	32.1		ug/L		64	18 - 115		21	43
Isophorone	50.0	36.2		ug/L		72	18 - 134		11	39
2-Nitrophenol	50.0	33.7		ug/L		67	14 - 115		16	46
2,4-Dimethylphenol	50.0	30.6		ug/L		61	10 - 119		14	44
Bis(2-chloroethoxy)methane	50.0	35.3		ug/L		71	10 - 119		15	46
2,4-Dichlorophenol	50.0	33.0		ug/L		66	13 - 118		16	38
1,2,4-Trichlorobenzene	50.0	15.5		ug/L		31	17 - 115		9	51
Naphthalene	50.0	19.9		ug/L		40	12 - 115		12	42
4-Chloroaniline	50.0	29.9		ug/L		60	26 - 115		4	49
Hexachlorobutadiene	50.0	10.6		ug/L		21	12 - 115		11	46
4-Chloro-3-methylphenol	50.0	35.2		ug/L		70	19 - 128		13	40
2-Methylnaphthalene	50.0	24.7		ug/L		49	16 - 115		11	45
Hexachlorocyclopentadiene	50.0	20.4		ug/L		41	10 - 115		12	63
2,4,6-Trichlorophenol	50.0	37.7		ug/L		75	20 - 120		12	43
2,4,5-Trichlorophenol	50.0	36.5		ug/L		73	22 - 117		9	41
2-Chloronaphthalene	50.0	30.5		ug/L		61	17 - 115		9	49
2-Nitroaniline	50.0	42.4		ug/L		85	37 - 119		5	29
Dimethyl phthalate	50.0	42.2		ug/L		84	48 - 127		4	29
Acenaphthylene	50.0	37.0		ug/L		74	29 - 129		8	40
3-Nitroaniline	50.0	38.9		ug/L		78	40 - 115		2	30
Acenaphthene	50.0	34.1		ug/L		68	25 - 115		9	40
2,4-Dinitrophenol	50.0	46.2		ug/L		92	44 - 116		4	21
4-Nitrophenol	50.0	20.5		ug/L		41	20 - 115		10	32
Dibenzofuran	50.0	35.7		ug/L		71	28 - 115		8	46
2,4-Dinitrotoluene	50.0	48.3		ug/L		97	61 - 118		1	19
2,6-Dinitrotoluene	50.0	44.3		ug/L		89	46 - 119		7	26
Diethyl phthalate	50.0	44.2		ug/L		88	59 - 115		0	24
4-Chlorophenyl phenyl ether	50.0	38.9		ug/L		78	32 - 115		9	38
Fluorene	50.0	38.8		ug/L		78	39 - 115		7	39
4-Nitroaniline	50.0	46.7		ug/L		93	67 - 115		2	23
2-Methyl-4,6-dinitrophenol	50.0	46.7		ug/L		93	53 - 115		1	19
N-Nitrosodiphenylamine	50.0	42.6		ug/L		85	57 - 115		2	27
4-Bromophenyl phenyl ether	50.0	41.4		ug/L		83	42 - 115		6	29
Hexachlorobenzene	50.0	43.6		ug/L		87	49 - 115		3	28
Pentachlorophenol	50.0	44.5		ug/L		89	54 - 115		0	22
Phenanthrene	50.0	42.1		ug/L		84	54 - 115		2	35
Anthracene	50.0	43.2		ug/L		86	54 - 115		1	25
Di-n-butyl phthalate	50.0	43.6		ug/L		87	58 - 115		0	26
Fluoranthene	50.0	44.2		ug/L		88	65 - 115		0	26
Pyrene	50.0	43.3		ug/L		87	64 - 122		3	22
Butyl benzyl phthalate	50.0	47.5		ug/L		95	37 - 115		2	21
3,3'-Dichlorobenzidine	50.0	40.7		ug/L		81	24 - 110		5	30
Benzo[a]anthracene	50.0	44.3		ug/L		89	63 - 116		1	24
Bis(2-ethylhexyl) phthalate	50.0	50.4		ug/L		101	59 - 115		2	30
Chrysene	50.0	48.4		ug/L		97	70 - 115		2	24
Di-n-octyl phthalate	50.0	48.6		ug/L		97	12 - 115		0	27
Benzo[b]fluoranthene	50.0	37.3		ug/L		75	66 - 115		2	31
Benzo[a]pyrene	50.0	41.1		ug/L		82	62 - 121		2	23

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-117180/3-A

Matrix: Water

Analysis Batch: 117207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene	50.0	47.5		ug/L		95	66 - 115	0	39
Indeno[1,2,3-cd]pyrene	50.0	46.0		ug/L		92	68 - 115	1	19
Benzo[g,h,i]perylene	50.0	47.4		ug/L		95	67 - 128	2	35
Benzoic acid	50.0	19.2		ug/L		38	10 - 115	14	56
Azobenzene	50.0	39.4		ug/L		79	42 - 115	9	35
Dibenz(a,h)anthracene	50.0	47.3		ug/L		95	65 - 121	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	68		25 - 102
2-Fluorobiphenyl	63		10 - 101
Terphenyl-d14	89		57 - 117
2-Fluorophenol	34		10 - 65
Phenol-d5	23		10 - 46
2,4,6-Tribromophenol	84		18 - 123

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-117111/1-A

Matrix: Water

Analysis Batch: 117152

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Acenaphthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Acenaphthylene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Fluorene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Phenanthrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Anthracene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Benzo[a]anthracene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Chrysene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Benzo[a]pyrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Benzo[b]fluoranthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Benzo[k]fluoranthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Fluoranthene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Pyrene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		07/13/12 10:47	07/14/12 01:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	70		29 - 120	07/13/12 10:47	07/14/12 01:57	1
Terphenyl-d14	91		45 - 120	07/13/12 10:47	07/14/12 01:57	1

Lab Sample ID: LCS 720-117111/2-A

Matrix: Water

Analysis Batch: 117152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	6.49		ug/L		65	33 - 120

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-117111/2-A

Matrix: Water

Analysis Batch: 117152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	7.33		ug/L		73	37 - 120
Acenaphthylene	10.0	7.19		ug/L		72	36 - 120
Fluorene	10.0	7.38		ug/L		74	22 - 120
Phenanthrene	10.0	7.99		ug/L		80	44 - 120
Anthracene	10.0	8.32		ug/L		83	45 - 120
Benzo[a]anthracene	10.0	7.45		ug/L		75	48 - 120
Chrysene	10.0	7.71		ug/L		77	40 - 94
Benzo[a]pyrene	10.0	7.38		ug/L		74	50 - 120
Benzo[b]fluoranthene	10.0	8.02		ug/L		80	48 - 120
Benzo[k]fluoranthene	10.0	6.63		ug/L		66	50 - 120
Benzo[g,h,i]perylene	10.0	6.42		ug/L		64	39 - 121
Indeno[1,2,3-cd]pyrene	10.0	6.50		ug/L		65	40 - 126
Fluoranthene	10.0	8.66		ug/L		87	46 - 120
Pyrene	10.0	8.03		ug/L		80	50 - 120
Dibenz(a,h)anthracene	10.0	6.20		ug/L		62	37 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	65		29 - 120
Terphenyl-d14	75		45 - 120

Lab Sample ID: LCSD 720-117111/3-A

Matrix: Water

Analysis Batch: 117152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	10.0	6.21		ug/L		62	33 - 120	4	35
Acenaphthene	10.0	7.04		ug/L		70	37 - 120	4	35
Acenaphthylene	10.0	7.00		ug/L		70	36 - 120	3	35
Fluorene	10.0	7.18		ug/L		72	22 - 120	3	35
Phenanthrene	10.0	7.85		ug/L		79	44 - 120	2	35
Anthracene	10.0	8.07		ug/L		81	45 - 120	3	35
Benzo[a]anthracene	10.0	7.27		ug/L		73	48 - 120	2	35
Chrysene	10.0	7.23		ug/L		72	40 - 94	6	35
Benzo[a]pyrene	10.0	6.53		ug/L		65	50 - 120	12	35
Benzo[b]fluoranthene	10.0	7.40		ug/L		74	48 - 120	8	35
Benzo[k]fluoranthene	10.0	6.09		ug/L		61	50 - 120	8	35
Benzo[g,h,i]perylene	10.0	5.64		ug/L		56	39 - 121	13	35
Indeno[1,2,3-cd]pyrene	10.0	5.65		ug/L		57	40 - 126	14	35
Fluoranthene	10.0	8.21		ug/L		82	46 - 120	5	35
Pyrene	10.0	7.83		ug/L		78	50 - 120	3	35
Dibenz(a,h)anthracene	10.0	5.44		ug/L		54	37 - 125	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	62		29 - 120
Terphenyl-d14	71		45 - 120

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-117109/1-A

Matrix: Water

Analysis Batch: 117182

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 117109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		07/13/12 10:45	07/16/12 19:34	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		07/13/12 10:45	07/16/12 19:34	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/13/12 10:45	07/16/12 19:34	1
p-Terphenyl	58		31 - 150				07/13/12 10:45	07/16/12 19:34	1

Lab Sample ID: LCS 720-117109/2-A

Matrix: Water

Analysis Batch: 117182

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 117109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1280		ug/L		51	32 - 119
Surrogate	%Recovery	LCS Qualifier	Limits				
p-Terphenyl	56		31 - 150				

Lab Sample ID: LCSD 720-117109/3-A

Matrix: Water

Analysis Batch: 117182

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 117109

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1170		ug/L		47	32 - 119	9	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
p-Terphenyl	50		31 - 150						

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-117129/1-A

Matrix: Water

Analysis Batch: 117168

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0025		mg/L		07/13/12 14:07	07/14/12 09:38	1
Chromium	ND		0.010		mg/L		07/13/12 14:07	07/14/12 09:38	1
Nickel	ND		0.010		mg/L		07/13/12 14:07	07/14/12 09:38	1
Lead	ND		0.0050		mg/L		07/13/12 14:07	07/14/12 09:38	1
Zinc	ND		0.020		mg/L		07/13/12 14:07	07/14/12 09:38	1

Lab Sample ID: LCS 720-117129/2-A

Matrix: Water

Analysis Batch: 117168

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.00	0.996		mg/L		100	80 - 120
Chromium	1.00	1.04		mg/L		104	80 - 120

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-117129/2-A

Matrix: Water

Analysis Batch: 117168

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	1.00	0.997		mg/L		100	80 - 120
Lead	1.00	0.998		mg/L		100	80 - 120
Zinc	1.00	0.995		mg/L		100	80 - 120

Lab Sample ID: LCSD 720-117129/3-A

Matrix: Water

Analysis Batch: 117168

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117129

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cadmium	1.00	0.988		mg/L		99	80 - 120	1	20
Chromium	1.00	1.03		mg/L		103	80 - 120	1	20
Nickel	1.00	0.991		mg/L		99	80 - 120	1	20
Lead	1.00	0.991		mg/L		99	80 - 120	1	20
Zinc	1.00	0.988		mg/L		99	80 - 120	1	20

Lab Sample ID: 720-43270-1 MS

Matrix: Water

Analysis Batch: 117168

Client Sample ID: W-2344-COMP-120712

Prep Type: Total/NA

Prep Batch: 117129

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		1.00	0.976		mg/L		98	75 - 125
Chromium	ND		1.00	1.05		mg/L		105	75 - 125
Nickel	ND		1.00	0.961		mg/L		96	75 - 125
Lead	ND		1.00	0.961		mg/L		96	75 - 125
Zinc	ND		1.00	0.980		mg/L		98	75 - 125

Lab Sample ID: 720-43270-1 MSD

Matrix: Water

Analysis Batch: 117168

Client Sample ID: W-2344-COMP-120712

Prep Type: Total/NA

Prep Batch: 117129

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cadmium	ND		1.00	0.971		mg/L		97	75 - 125	1	20
Chromium	ND		1.00	1.06		mg/L		106	75 - 125	1	20
Nickel	ND		1.00	0.960		mg/L		96	75 - 125	0	20
Lead	ND		1.00	0.955		mg/L		96	75 - 125	1	20
Zinc	ND		1.00	0.976		mg/L		98	75 - 125	0	20

Lab Sample ID: LCS 720-117199/2-A

Matrix: Water

Analysis Batch: 117229

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.00	0.954		mg/L		95	80 - 120
Chromium	1.00	0.991		mg/L		99	80 - 120
Nickel	1.00	0.994		mg/L		99	80 - 120
Lead	1.00	0.980		mg/L		98	80 - 120
Zinc	1.00	0.972		mg/L		97	80 - 120

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-117199/3-A

Matrix: Water

Analysis Batch: 117229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 117199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.00	0.976		mg/L		98	80 - 120	2	20
Chromium	1.00	0.999		mg/L		100	80 - 120	1	20
Nickel	1.00	1.01		mg/L		101	80 - 120	1	20
Lead	1.00	0.998		mg/L		100	80 - 120	2	20
Zinc	1.00	0.990		mg/L		99	80 - 120	2	20

Lab Sample ID: MB 720-117120/1-B

Matrix: Water

Analysis Batch: 117229

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 117199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		07/16/12 09:23	07/16/12 14:06	1
Chromium	ND		0.010		mg/L		07/16/12 09:23	07/16/12 14:06	1
Nickel	ND		0.010		mg/L		07/16/12 09:23	07/16/12 14:06	1
Lead	ND		0.0050		mg/L		07/16/12 09:23	07/16/12 14:06	1
Zinc	ND		0.020		mg/L		07/16/12 09:23	07/16/12 14:06	1

Lab Sample ID: 720-43270-1 MS

Matrix: Water

Analysis Batch: 117229

Client Sample ID: W-2344-COMP-120712

Prep Type: Dissolved

Prep Batch: 117199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		1.00	0.947		mg/L		95	75 - 125
Chromium	ND		1.00	0.996		mg/L		100	75 - 125
Nickel	ND		1.00	0.993		mg/L		99	75 - 125
Lead	0.0060		1.00	0.980		mg/L		97	75 - 125
Zinc	0.023		1.00	0.987		mg/L		96	75 - 125

Lab Sample ID: 720-43270-1 MSD

Matrix: Water

Analysis Batch: 117229

Client Sample ID: W-2344-COMP-120712

Prep Type: Dissolved

Prep Batch: 117199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		1.00	0.951		mg/L		95	75 - 125	1	20
Chromium	ND		1.00	1.01		mg/L		101	75 - 125	1	20
Nickel	ND		1.00	0.997		mg/L		99	75 - 125	0	20
Lead	0.0060		1.00	0.985		mg/L		98	75 - 125	1	20
Zinc	0.023		1.00	0.992		mg/L		97	75 - 125	0	20

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

GC/MS VOA

Analysis Batch: 117089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-117089/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-117089/9	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-117089/10	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-117089/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-117089/6	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 117111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	3510C	
LCS 720-117111/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-117111/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-117111/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 117152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	8270C SIM	117111
LCS 720-117111/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	117111
LCSD 720-117111/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	117111
MB 720-117111/1-A	Method Blank	Total/NA	Water	8270C SIM	117111

Prep Batch: 117180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	3510C	
LCS 720-117180/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-117180/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-117180/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 117207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	8270C	117180
LCS 720-117180/2-A	Lab Control Sample	Total/NA	Water	8270C	117180
LCSD 720-117180/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	117180
MB 720-117180/1-A	Method Blank	Total/NA	Water	8270C	117180

GC Semi VOA

Prep Batch: 117109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-117109/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-117109/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-117109/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

GC Semi VOA (Continued)

Analysis Batch: 117182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Silica Gel Cleanup	Water	8015B	117109
LCS 720-117109/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	117109
LCSD 720-117109/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	117109
MB 720-117109/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	117109

Metals

Prep Batch: 117129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	3010A	
720-43270-1 MS	W-2344-COMP-120712	Total/NA	Water	3010A	
720-43270-1 MSD	W-2344-COMP-120712	Total/NA	Water	3010A	
LCS 720-117129/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-117129/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-117129/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 117168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Total/NA	Water	6010B	117129
720-43270-1 MS	W-2344-COMP-120712	Total/NA	Water	6010B	117129
720-43270-1 MSD	W-2344-COMP-120712	Total/NA	Water	6010B	117129
LCS 720-117129/2-A	Lab Control Sample	Total/NA	Water	6010B	117129
LCSD 720-117129/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	117129
MB 720-117129/1-A	Method Blank	Total/NA	Water	6010B	117129

Prep Batch: 117199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Dissolved	Water	3005A	
720-43270-1 MS	W-2344-COMP-120712	Dissolved	Water	3005A	
720-43270-1 MSD	W-2344-COMP-120712	Dissolved	Water	3005A	
LCS 720-117199/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 720-117199/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 720-117120/1-B	Method Blank	Dissolved	Water	3005A	

Analysis Batch: 117229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43270-1	W-2344-COMP-120712	Dissolved	Water	6010B	117199
720-43270-1 MS	W-2344-COMP-120712	Dissolved	Water	6010B	117199
720-43270-1 MSD	W-2344-COMP-120712	Dissolved	Water	6010B	117199
LCS 720-117199/2-A	Lab Control Sample	Total Recoverable	Water	6010B	117199
LCSD 720-117199/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	117199
MB 720-117120/1-B	Method Blank	Dissolved	Water	6010B	117199

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Client Sample ID: W-2344-COMP-120712

Lab Sample ID: 720-43270-1

Date Collected: 07/12/12 08:30

Matrix: Water

Date Received: 07/13/12 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	117089	07/13/12 14:58	AC	TAL SF
Total/NA	Prep	3510C			117111	07/13/12 10:47	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	117152	07/14/12 02:21	ML	TAL SF
Total/NA	Prep	3510C			117180	07/16/12 07:24	AM	TAL SF
Total/NA	Analysis	8270C		1	117207	07/16/12 13:51	ML	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			117109	07/13/12 10:45	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117182	07/16/12 15:54	JZ	TAL SF
Total/NA	Prep	3010A			117129	07/13/12 14:09	ET	TAL SF
Total/NA	Analysis	6010B		1	117168	07/14/12 10:46	BA	TAL SF
Dissolved	Prep	3005A			117199	07/16/12 10:05	ET	TAL SF
Dissolved	Analysis	6010B		1	117229	07/16/12 14:19	EFH	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Pleasanton	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SF
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43270-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43270-1	W-2344-COMP-120712	Water	07/12/12 08:30	07/13/12 07:10

1

2

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Test America - Pleasanton

139459

Client Name/Address: Antea Group/UPRR 312 Piercy Road San Jose, CA 95138				Project / PO Number: Santa Rosa CA-2 Fourth Street and 34 Sixth Street Antea Group Project No. UPR8248																	
Project Manager/Phone Number: Lia Holden / 408-826-1863				Phone Number: PEDD-2344-3-Rev2-20120620																	
Sampler: Renee Ransom 920.540.9564				Fax Number:																	
Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	GRO and DRO by EPA 8260B		DRO and MORO by EPA 8015 (with Silica Gel Cleanup)		PCE and TCE by 8270C		Total and Dissolved CAM 5 Metals (Cd, Cr, Pb, Ni, Zn) by EPA 6010B		PAHs by EPA 8270		VOC's by 8260B		SVOC's by 8270C		Special Instructions	
W-2344-60MP-120112	W	plastic	10	7/12/12 8:00 AM	NMOS #44 10% HCl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24 hr. DASH	
RUSH																					
NOMORE SAMPLES																					
Relinquished By: Date/Time: 7/12/12 @ 3:10pm				Received by: Date/Time:				Turnaround Time: (check) Same Day _____ 72 Hours _____ 24 Hours ☒ 5 days _____ 48 hours _____ normal _____ Sample Integrity: (Check) Intact _____ On Ice: _____ Custody: 2.4%													
Relinquished By: Date/Time:				Received by: Date/Time:																	
Relinquished By: Date/Time:				Received in Lab by: Date/Time: 7/13/12 0710				Test America													

Note: By relinquishing samples to Test America, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-43270-1

Login Number: 43270

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-43205-1

Client Project/Site: UPRR- Santa Rosa

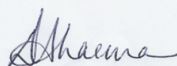
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

7/24/2012 10:40:05 AM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Job ID: 720-43205-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-43205-1

Comments

No additional comments.

Receipt

The samples were received on 7/11/2012 7:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-COMP1-100712 (720-43205-1), SO-2344-COMP2-100712 (720-43205-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: SO-2344-COMP2-100712 (720-43205-2).

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Client Sample ID: SO-2344-COMP1-100712

Lab Sample ID: 720-43205-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	44		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	84		50		mg/Kg	1		8015B	Silica Gel Cleanup
Chromium	120		2.0		mg/Kg	4		6010B	Total/NA
Nickel	140		2.0		mg/Kg	4		6010B	Total/NA
Lead	8.0		2.0		mg/Kg	4		6010B	Total/NA
Zinc	56		6.0		mg/Kg	4		6010B	Total/NA
Nickel	2.3		0.25		mg/L	2.5		6010B	STLC Citrate
Chromium	0.29		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample ID: SO-2344-COMP2-100712

Lab Sample ID: 720-43205-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	800		240		ug/Kg	1		8260B	Total/NA
Acenaphthene	180		49		ug/Kg	10		8270C SIM	Total/NA
Acenaphthylene	53		49		ug/Kg	10		8270C SIM	Total/NA
Fluorene	57		49		ug/Kg	10		8270C SIM	Total/NA
Pyrene	85		49		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4200		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4600		2500		mg/Kg	50		8015B	Silica Gel Cleanup
Cadmium	0.51		0.50		mg/Kg	4		6010B	Total/NA
Chromium	90		2.0		mg/Kg	4		6010B	Total/NA
Nickel	140		2.0		mg/Kg	4		6010B	Total/NA
Lead	6.9		2.0		mg/Kg	4		6010B	Total/NA
Zinc	56		6.0		mg/Kg	4		6010B	Total/NA
Nickel	2.3		0.25		mg/L	2.5		6010B	STLC Citrate
Chromium	0.61		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Client Sample ID: SO-2344-COMP1-100712

Lab Sample ID: 720-43205-1

Date Collected: 07/10/12 08:30

Matrix: Solid

Date Received: 07/11/12 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Benzene	ND		4.6		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Ethylbenzene	ND		4.6		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Toluene	ND		4.6		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Xylenes, Total	ND		9.1		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Gasoline Range Organics (GRO)	ND		230		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
-C5-C12									
Tetrachloroethene	ND		4.6		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Trichloroethene	ND		4.6		ug/Kg		07/11/12 09:50	07/11/12 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131				07/11/12 09:50	07/11/12 15:07	1
1,2-Dichloroethane-d4 (Surr)	121		60 - 140				07/11/12 09:50	07/11/12 15:07	1
Toluene-d8 (Surr)	97		58 - 140				07/11/12 09:50	07/11/12 15:07	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Acenaphthylene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Anthracene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Benzo[a]anthracene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Benzo[a]pyrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Benzo[b]fluoranthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Benzo[g,h,i]perylene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Benzo[k]fluoranthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Chrysene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Fluoranthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Fluorene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Naphthalene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Phenanthrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Pyrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:14	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		33 - 120				07/11/12 12:55	07/16/12 19:14	10
Terphenyl-d14	60		35 - 146				07/11/12 12:55	07/16/12 19:14	10

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44		1.0		mg/Kg		07/11/12 12:00	07/12/12 15:49	1
Motor Oil Range Organics [C24-C36]	84		50		mg/Kg		07/11/12 12:00	07/12/12 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.8		0 - 1				07/11/12 12:00	07/12/12 15:49	1
p-Terphenyl	41		38 - 148				07/11/12 12:00	07/12/12 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50		mg/Kg		07/11/12 18:03	07/12/12 12:07	4
Chromium	120		2.0		mg/Kg		07/11/12 18:03	07/12/12 12:07	4
Nickel	140		2.0		mg/Kg		07/11/12 18:03	07/12/12 12:07	4

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Client Sample ID: SO-2344-COMP1-100712

Lab Sample ID: 720-43205-1

Date Collected: 07/10/12 08:30

Matrix: Solid

Date Received: 07/11/12 09:32

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.0		2.0		mg/Kg		07/11/12 18:03	07/12/12 12:07	4
Zinc	56		6.0		mg/Kg		07/11/12 18:03	07/12/12 12:07	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.13		mg/L		07/16/12 09:07	07/16/12 13:43	2.5
Cadmium	ND		0.050		mg/L		07/16/12 09:07	07/16/12 13:43	2.5
Nickel	2.3		0.25		mg/L		07/16/12 09:07	07/16/12 13:43	2.5
Zinc	ND		0.50		mg/L		07/16/12 09:07	07/16/12 13:43	2.5
Chromium	0.29		0.25		mg/L		07/16/12 09:07	07/16/12 13:43	2.5

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Client Sample ID: SO-2344-COMP2-100712

Lab Sample ID: 720-43205-2

Date Collected: 07/10/12 12:05

Matrix: Solid

Date Received: 07/11/12 09:32

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Benzene	ND		4.8		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Ethylbenzene	ND		4.8		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Toluene	ND		4.8		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Xylenes, Total	ND		9.5		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Gasoline Range Organics (GRO)	800		240		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
-C5-C12									
Tetrachloroethene	ND		4.8		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Trichloroethene	ND		4.8		ug/Kg		07/11/12 09:50	07/11/12 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	80		45 - 131				07/11/12 09:50	07/11/12 18:33	1
1,2-Dichloroethane-d4 (Surr)	118		60 - 140				07/11/12 09:50	07/11/12 18:33	1
Toluene-d8 (Surr)	86		58 - 140				07/11/12 09:50	07/11/12 18:33	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Acenaphthylene	53		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Anthracene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Benzo[a]anthracene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Benzo[a]pyrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Benzo[b]fluoranthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Benzo[g,h,i]perylene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Benzo[k]fluoranthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Chrysene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Fluoranthene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Fluorene	57		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Naphthalene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Phenanthrene	ND		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Pyrene	85		49		ug/Kg		07/11/12 12:55	07/16/12 19:38	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	40		33 - 120				07/11/12 12:55	07/16/12 19:38	10
Terphenyl-d14	41		35 - 146				07/11/12 12:55	07/16/12 19:38	10

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4200		50		mg/Kg		07/11/12 12:00	07/13/12 21:40	50
Motor Oil Range Organics [C24-C36]	4600		2500		mg/Kg		07/11/12 12:00	07/13/12 21:40	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1				07/11/12 12:00	07/13/12 21:40	50
p-Terphenyl	0	X D	38 - 148				07/11/12 12:00	07/13/12 21:40	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.51		0.50		mg/Kg		07/11/12 18:03	07/12/12 12:11	4
Chromium	90		2.0		mg/Kg		07/11/12 18:03	07/12/12 12:11	4
Nickel	140		2.0		mg/Kg		07/11/12 18:03	07/12/12 12:11	4

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Client Sample ID: SO-2344-COMP2-100712

Lab Sample ID: 720-43205-2

Date Collected: 07/10/12 12:05

Matrix: Solid

Date Received: 07/11/12 09:32

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.9		2.0		mg/Kg		07/11/12 18:03	07/12/12 12:11	4
Zinc	56		6.0		mg/Kg		07/11/12 18:03	07/12/12 12:11	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.13		mg/L		07/16/12 09:07	07/16/12 13:47	2.5
Cadmium	ND		0.050		mg/L		07/16/12 09:07	07/16/12 13:47	2.5
Nickel	2.3		0.25		mg/L		07/16/12 09:07	07/16/12 13:47	2.5
Zinc	ND		0.50		mg/L		07/16/12 09:07	07/16/12 13:47	2.5
Chromium	0.61		0.25		mg/L		07/16/12 09:07	07/16/12 13:47	2.5

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-116965/1-A

Matrix: Solid

Analysis Batch: 116943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
Benzene	ND		5.0		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
Ethylbenzene	ND		5.0		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
Toluene	ND		5.0		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
Xylenes, Total	ND		10		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
-C5-C12									
Tetrachloroethene	ND		5.0		ug/Kg		07/11/12 07:00	07/11/12 08:30	1
Trichloroethene	ND		5.0		ug/Kg		07/11/12 07:00	07/11/12 08:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131	07/11/12 07:00	07/11/12 08:30	1
1,2-Dichloroethane-d4 (Surr)	121		60 - 140	07/11/12 07:00	07/11/12 08:30	1
Toluene-d8 (Surr)	101		58 - 140	07/11/12 07:00	07/11/12 08:30	1

Lab Sample ID: LCS 720-116965/2-A

Matrix: Solid

Analysis Batch: 116943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	63.8		ug/Kg		128	70 - 144
Benzene	50.0	50.6		ug/Kg		101	70 - 130
Ethylbenzene	50.0	50.2		ug/Kg		100	80 - 137
Toluene	50.0	48.4		ug/Kg		97	80 - 128
m-Xylene & p-Xylene	100	113		ug/Kg		113	70 - 146
o-Xylene	50.0	52.4		ug/Kg		105	70 - 140
Tetrachloroethene	50.0	54.4		ug/Kg		109	70 - 132
Trichloroethene	50.0	52.0		ug/Kg		104	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	117		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Lab Sample ID: LCS 720-116965/4-A

Matrix: Solid

Analysis Batch: 116943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)	1000	1040		ug/Kg		104	61 - 128
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	101		58 - 140

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-116965/3-A

Matrix: Solid

Analysis Batch: 116943

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	59.0		ug/Kg		118	70 - 144	8	20
Benzene	50.0	47.6		ug/Kg		95	70 - 130	6	20
Ethylbenzene	50.0	48.2		ug/Kg		96	80 - 137	4	20
Toluene	50.0	46.6		ug/Kg		93	80 - 128	4	20
m-Xylene & p-Xylene	100	107		ug/Kg		107	70 - 146	5	20
o-Xylene	50.0	50.6		ug/Kg		101	70 - 140	3	20
Tetrachloroethene	50.0	50.4		ug/Kg		101	70 - 132	8	20
Trichloroethene	50.0	48.8		ug/Kg		98	70 - 133	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Lab Sample ID: LCSD 720-116965/5-A

Matrix: Solid

Analysis Batch: 116943

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	1000	935		ug/Kg		94	61 - 128	11	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	124		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-116955/1-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Acenaphthylene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Anthracene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Chrysene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Fluoranthene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Fluorene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Naphthalene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Phenanthrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-116955/1-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.0		ug/Kg		07/11/12 09:17	07/13/12 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120				07/11/12 09:17	07/13/12 11:38	1
Terphenyl-d14	82		35 - 146				07/11/12 09:17	07/13/12 11:38	1

Lab Sample ID: LCS 720-116955/2-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	240		ug/Kg		72	49 - 120
Acenaphthylene	333	235		ug/Kg		71	52 - 120
Anthracene	333	247		ug/Kg		74	52 - 120
Benzo[a]anthracene	333	246		ug/Kg		74	52 - 120
Benzo[a]pyrene	333	263		ug/Kg		79	54 - 120
Benzo[b]fluoranthene	333	285		ug/Kg		86	51 - 120
Benzo[g,h,i]perylene	333	235		ug/Kg		71	48 - 120
Benzo[k]fluoranthene	333	262		ug/Kg		79	56 - 120
Chrysene	333	227		ug/Kg		68	40 - 120
Dibenz(a,h)anthracene	333	259		ug/Kg		78	50 - 120
Fluoranthene	333	265		ug/Kg		80	57 - 120
Fluorene	333	251		ug/Kg		75	52 - 120
Indeno[1,2,3-cd]pyrene	333	256		ug/Kg		77	48 - 120
Naphthalene	333	230		ug/Kg		69	46 - 120
Phenanthrene	333	240		ug/Kg		72	48 - 120
Pyrene	333	235		ug/Kg		71	53 - 120
Surrogate	%Recovery	Qualifier	Limits				
2-Fluorobiphenyl	81		33 - 120				
Terphenyl-d14	85		35 - 146				

Lab Sample ID: LCSD 720-116955/3-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	333	235		ug/Kg		71	49 - 120	2	20
Acenaphthylene	333	224		ug/Kg		67	52 - 120	5	20
Anthracene	333	236		ug/Kg		71	52 - 120	5	20
Benzo[a]anthracene	333	244		ug/Kg		73	52 - 120	1	20
Benzo[a]pyrene	333	262		ug/Kg		79	54 - 120	1	20
Benzo[b]fluoranthene	333	281		ug/Kg		84	51 - 120	1	20
Benzo[g,h,i]perylene	333	233		ug/Kg		70	48 - 120	1	20
Benzo[k]fluoranthene	333	259		ug/Kg		78	56 - 120	1	20
Chrysene	333	225		ug/Kg		67	40 - 120	1	20
Dibenz(a,h)anthracene	333	254		ug/Kg		76	50 - 120	2	20
Fluoranthene	333	256		ug/Kg		77	57 - 120	4	20
Fluorene	333	238		ug/Kg		71	52 - 120	5	20

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-116955/3-A

Matrix: Solid

Analysis Batch: 117110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	333	253		ug/Kg		76	48 - 120	1	20
Naphthalene	333	223		ug/Kg		67	46 - 120	3	20
Phenanthrene	333	236		ug/Kg		71	48 - 120	2	20
Pyrene	333	224		ug/Kg		67	53 - 120	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	79		33 - 120
Terphenyl-d14	82		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-116971/1-A

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/11/12 12:00	07/12/12 12:49	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/11/12 12:00	07/12/12 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 1	07/11/12 12:00	07/12/12 12:49	1
p-Terphenyl	70		38 - 148	07/11/12 12:00	07/12/12 12:49	1

Lab Sample ID: LCS 720-116971/2-A

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.1	55.5		mg/Kg		67	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	62		38 - 148

Lab Sample ID: LCSD 720-116971/3-A

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.7	56.5		mg/Kg		68	36 - 112	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	63		38 - 148

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-43205-1 MS

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: SO-2344-COMP1-100712

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	44		83.1	144		mg/Kg		120	50 - 150
Surrogate	MS %Recovery	MS Qualifier	Limits						
p-Terphenyl	42		38 - 148						

Lab Sample ID: 720-43205-1 MSD

Matrix: Solid

Analysis Batch: 117020

Client Sample ID: SO-2344-COMP1-100712

Prep Type: Silica Gel Cleanup

Prep Batch: 116971

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	44		82.4	150		mg/Kg	-	128	50 - 150	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
p-Terphenyl	36	X	38 - 148								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-117003/1-A

Matrix: Solid

Analysis Batch: 117053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.13		mg/Kg		07/11/12 18:03	07/12/12 10:51	1
Lead	ND		0.50		mg/Kg		07/11/12 18:03	07/12/12 10:51	1
Nickel	ND		0.50		mg/Kg		07/11/12 18:03	07/12/12 10:51	1
Zinc	ND		1.5		mg/Kg		07/11/12 18:03	07/12/12 10:51	1
Chromium	ND		0.50		mg/Kg		07/11/12 18:03	07/12/12 10:51	1

Lab Sample ID: LCS 720-117003/2-A

Matrix: Solid

Analysis Batch: 117053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	49.0		mg/Kg		98	80 - 120
Lead	50.0	50.5		mg/Kg		101	80 - 120
Nickel	50.0	50.3		mg/Kg		101	80 - 120
Zinc	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	50.2		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 720-117003/3-A

Matrix: Solid

Analysis Batch: 117053

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117003

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	50.0	48.3		mg/Kg		97	80 - 120	1	20
Lead	50.0	49.4		mg/Kg		99	80 - 120	2	20
Nickel	50.0	49.2		mg/Kg		98	80 - 120	2	20
Zinc	50.0	48.4		mg/Kg		97	80 - 120	2	20

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-117003/3-A

Matrix: Solid

Analysis Batch: 117053

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117003

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	50.0	48.7		mg/Kg		97	80 - 120	3	20

Lab Sample ID: LCSSRM 720-117003/23-A

Matrix: Solid

Analysis Batch: 117053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117003

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	42.0	35.5		mg/Kg		85	67 - 118
Lead	280	248		mg/Kg		88	62 - 113
Nickel	106	93.6		mg/Kg		88	65 - 117
Zinc	574	479		mg/Kg		83	62 - 110
Chromium	269	244		mg/Kg		91	67 - 121

Lab Sample ID: MB 720-117199/1-A

Matrix: Solid

Analysis Batch: 117229

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 117199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		07/16/12 09:07	07/16/12 12:11	1
Lead	ND		0.0050		mg/L		07/16/12 09:07	07/16/12 12:11	1
Nickel	ND		0.010		mg/L		07/16/12 09:07	07/16/12 12:11	1
Zinc	ND		0.020		mg/L		07/16/12 09:07	07/16/12 12:11	1
Chromium	ND		0.010		mg/L		07/16/12 09:07	07/16/12 12:11	1

Lab Sample ID: LCS 720-117199/2-A

Matrix: Solid

Analysis Batch: 117229

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.00	0.954		mg/L		95	80 - 120
Lead	1.00	0.980		mg/L		98	80 - 120
Nickel	1.00	0.994		mg/L		99	80 - 120
Zinc	1.00	0.972		mg/L		97	80 - 120
Chromium	1.00	0.991		mg/L		99	80 - 120

Lab Sample ID: LCSD 720-117199/3-A

Matrix: Solid

Analysis Batch: 117229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 117199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.00	0.976		mg/L		98	80 - 120	2	20
Lead	1.00	0.998		mg/L		100	80 - 120	2	20
Nickel	1.00	1.01		mg/L		101	80 - 120	1	20
Zinc	1.00	0.990		mg/L		99	80 - 120	2	20
Chromium	1.00	0.999		mg/L		100	80 - 120	1	20

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB4 720-116996/1-B LB4

Matrix: Solid

Analysis Batch: 117229

Client Sample ID: Method Blank

Prep Type: STLC Citrate

Prep Batch: 117199

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.050		mg/L		07/16/12 09:07	07/16/12 13:10	2.5
Lead	ND		0.13		mg/L		07/16/12 09:07	07/16/12 13:10	2.5
Nickel	ND		0.25		mg/L		07/16/12 09:07	07/16/12 13:10	2.5
Zinc	ND		0.50		mg/L		07/16/12 09:07	07/16/12 13:10	2.5
Chromium	ND		0.25		mg/L		07/16/12 09:07	07/16/12 13:10	2.5

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

GC/MS VOA

Analysis Batch: 116943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Total/NA	Solid	8260B	116965
720-43205-2	SO-2344-COMP2-100712	Total/NA	Solid	8260B	116965
LCS 720-116965/2-A	Lab Control Sample	Total/NA	Solid	8260B	116965
LCS 720-116965/4-A	Lab Control Sample	Total/NA	Solid	8260B	116965
LCSD 720-116965/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	116965
LCSD 720-116965/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B	116965
MB 720-116965/1-A	Method Blank	Total/NA	Solid	8260B	116965

Prep Batch: 116965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Total/NA	Solid	5035	
720-43205-2	SO-2344-COMP2-100712	Total/NA	Solid	5035	
LCS 720-116965/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-116965/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-116965/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-116965/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-116965/1-A	Method Blank	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 116955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Total/NA	Solid	3546	
720-43205-2	SO-2344-COMP2-100712	Total/NA	Solid	3546	
LCS 720-116955/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-116955/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-116955/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 117110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-116955/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	116955
LCSD 720-116955/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	116955
MB 720-116955/1-A	Method Blank	Total/NA	Solid	8270C SIM	116955

Analysis Batch: 117206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Total/NA	Solid	8270C SIM	116955
720-43205-2	SO-2344-COMP2-100712	Total/NA	Solid	8270C SIM	116955

GC Semi VOA

Prep Batch: 116971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Silica Gel Cleanup	Solid	3546	
720-43205-1 MS	SO-2344-COMP1-100712	Silica Gel Cleanup	Solid	3546	
720-43205-1 MSD	SO-2344-COMP1-100712	Silica Gel Cleanup	Solid	3546	
720-43205-2	SO-2344-COMP2-100712	Silica Gel Cleanup	Solid	3546	
LCS 720-116971/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-116971/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-116971/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

GC Semi VOA (Continued)

Analysis Batch: 117020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43205-1 MS	SO-2344-COMP1-100712	Silica Gel Cleanup	Solid	8015B	116971
720-43205-1 MSD	SO-2344-COMP1-100712	Silica Gel Cleanup	Solid	8015B	116971
LCS 720-116971/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	116971
LCSD 720-116971/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	116971
MB 720-116971/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	116971

Analysis Batch: 117094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-2	SO-2344-COMP2-100712	Silica Gel Cleanup	Solid	8015B	116971

Metals

Leach Batch: 116996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	STLC Citrate	Solid	CA WET Citrate	
720-43205-2	SO-2344-COMP2-100712	STLC Citrate	Solid	CA WET Citrate	
LB4 720-116996/1-B LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 117003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Total/NA	Solid	3050B	
720-43205-2	SO-2344-COMP2-100712	Total/NA	Solid	3050B	
LCS 720-117003/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-117003/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-117003/23-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-117003/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 117053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	Total/NA	Solid	6010B	117003
720-43205-2	SO-2344-COMP2-100712	Total/NA	Solid	6010B	117003
LCS 720-117003/2-A	Lab Control Sample	Total/NA	Solid	6010B	117003
LCSD 720-117003/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	117003
LCSSRM 720-117003/23-A	Lab Control Sample	Total/NA	Solid	6010B	117003
MB 720-117003/1-A	Method Blank	Total/NA	Solid	6010B	117003

Prep Batch: 117199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	STLC Citrate	Solid	3005A	116996
720-43205-2	SO-2344-COMP2-100712	STLC Citrate	Solid	3005A	116996
LB4 720-116996/1-B LB4	Method Blank	STLC Citrate	Solid	3005A	116996
LCS 720-117199/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-117199/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-117199/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 117229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43205-1	SO-2344-COMP1-100712	STLC Citrate	Solid	6010B	117199
720-43205-2	SO-2344-COMP2-100712	STLC Citrate	Solid	6010B	117199
LB4 720-116996/1-B LB4	Method Blank	STLC Citrate	Solid	6010B	117199
LCS 720-117199/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	117199

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Metals (Continued)

Analysis Batch: 117229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-117199/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	117199
MB 720-117199/1-A	Method Blank	Total Recoverable	Solid	6010B	117199

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Client Sample ID: SO-2344-COMP1-100712

Lab Sample ID: 720-43205-1

Date Collected: 07/10/12 08:30

Matrix: Solid

Date Received: 07/11/12 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			116965	07/11/12 09:50	YB	TAL SF
Total/NA	Analysis	8260B		1	116943	07/11/12 15:07	AC	TAL SF
Total/NA	Prep	3546			116955	07/11/12 12:55	MP	TAL SF
Total/NA	Analysis	8270C SIM		10	117206	07/16/12 19:14	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	117020	07/12/12 15:49	JZ	TAL SF
Total/NA	Prep	3050B			117003	07/11/12 18:03	CDT	TAL SF
Total/NA	Analysis	6010B		4	117053	07/12/12 12:07	EFH	TAL SF
STLC Citrate	Leach	CA WET Citrate			116996	07/11/12 15:56	ASB	TAL SF
STLC Citrate	Prep	3005A			117199	07/16/12 09:07	ET	TAL SF
STLC Citrate	Analysis	6010B		2.5	117229	07/16/12 13:43	EFH	TAL SF

Client Sample ID: SO-2344-COMP2-100712

Lab Sample ID: 720-43205-2

Date Collected: 07/10/12 12:05

Matrix: Solid

Date Received: 07/11/12 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			116965	07/11/12 09:50	YB	TAL SF
Total/NA	Analysis	8260B		1	116943	07/11/12 18:33	AC	TAL SF
Total/NA	Prep	3546			116955	07/11/12 12:55	MP	TAL SF
Total/NA	Analysis	8270C SIM		10	117206	07/16/12 19:38	ML	TAL SF
Silica Gel Cleanup	Prep	3546			116971	07/11/12 12:00	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		50	117094	07/13/12 21:40	JZ	TAL SF
Total/NA	Prep	3050B			117003	07/11/12 18:03	CDT	TAL SF
Total/NA	Analysis	6010B		4	117053	07/12/12 12:11	EFH	TAL SF
STLC Citrate	Leach	CA WET Citrate			116996	07/11/12 15:56	ASB	TAL SF
STLC Citrate	Prep	3005A			117199	07/16/12 09:07	ET	TAL SF
STLC Citrate	Analysis	6010B		2.5	117229	07/16/12 13:47	EFH	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SF
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43205-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43205-1	SO-2344-COMP1-100712	Solid	07/10/12 08:30	07/11/12 09:32
720-43205-2	SO-2344-COMP2-100712	Solid	07/10/12 12:05	07/11/12 09:32

Client Name/Address: Antea Group/UPRR 312 Piercy Road San Jose, CA 95138				Project / PO Number: Santa Rosa CA-2 Fourth Street and 34 Sixth Street Antea Group Project No. UPR8248				720-43205											
Project Manager/Phone Number: Lia Holden / 408-826-1863				Phone Number: PEDD-2344-3-Rev2-20120620				GRO and BTEX by EPA 8260B											
Sample: Renee Ransom 408.580.4164				Fax Number: (408) 225-9504				DRO and MORO by EPA 8015 (with Silica Gel Cleanup)											
Sample Description		Sample Matrix		Container Type		# of Containers		Sampling Date/Time		Preservation		PCE and TCE by 8270C		Total and Dissolved CAM 5 Metals (Cd, Cr, Pb, Ni, Zn) by EPA 6010B		PAHs by EPA 8270		4.1c	
50-2344-10MPL-100412 S		24hr 3 liter		S		5		7/10/12 0830		None		X		X		X			
80-2344-COMP2-100412 S		24hr 3 liter		S		5		7/10/12 1205		None		X		X		X			
NO MORE SAMPLES																			
Relinquished By: - SAIC in cooler Date/Time:				Received by: Date/Time:				Turnaround Time: (check) Same Day _____ 72 Hours _____ 24 Hours _____ 5 days _____ 48 hours _____ normal _____											
Relinquished By: Ben Nam (Renee Ransom) Date/Time: 3:30pm 7/11/12				Received by: Date/Time:				Sample Integrity: (Check) Intact _____ On Ice _____ Custody _____											
Relinquished By: Date/Time:				Received by: Date/Time:				Sample Integrity: (Check) Intact _____ On Ice _____ Custody _____											

Note: By relinquishing samples to Test America, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-43205-1

Login Number: 43205

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-43229-1

Client Project/Site: UPRR- Santa Rosa

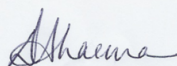
For:

Antea USA, Inc.

312 Piercy Road

San Jose, California 95138

Attn: Ms. Lia Holden



Authorized for release by:

7/25/2012 2:02:03 PM

Dimple Sharma

Project Manager I

dimple.sharma@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Job ID: 720-43229-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-43229-1

Comments

No additional comments.

Receipt

The sample was received on 7/11/2012 6:40 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: SO-2344-COMP3-110712 (720-43229-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Surrogate recovery for the following sample was outside control limits: SO-2344-COMP3-110712 (720-43229-1), (720-43229-1 MS), (720-43229-1 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Client Sample ID: SO-2344-COMP3-110712

Lab Sample ID: 720-43229-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	38		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	160		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	310		150		mg/Kg	3		8015B	Silica Gel Cleanup
Chromium	81		1.9		mg/Kg	4		6010B	Total/NA
Nickel	140		1.9		mg/Kg	4		6010B	Total/NA
Lead	4.7		1.9		mg/Kg	4		6010B	Total/NA
Zinc	42		5.7		mg/Kg	4		6010B	Total/NA
Nickel	3.6		0.25		mg/L	2.5		6010B	STLC Citrate
Chromium	0.31		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Client Sample ID: SO-2344-COMP3-110712

Lab Sample ID: 720-43229-1

Date Collected: 07/11/12 08:45

Matrix: Solid

Date Received: 07/11/12 18:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.1		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
Ethylbenzene	ND		5.1		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
Toluene	ND		5.1		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
Xylenes, Total	ND		10		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
Gasoline Range Organics (GRO)	ND		260		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
-C5-C12									
PCE	ND		5.1		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
TCE	ND		5.1		ug/Kg		07/12/12 13:45	07/12/12 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	75		45 - 131				07/12/12 13:45	07/12/12 17:43	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140				07/12/12 13:45	07/12/12 17:43	1
Toluene-d8 (Surr)	93		58 - 140				07/12/12 13:45	07/12/12 17:43	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Acenaphthylene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Anthracene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Benzo[a]anthracene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Benzo[a]pyrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Benzo[b]fluoranthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Benzo[g,h,i]perylene	38		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Benzo[k]fluoranthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Chrysene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Fluoranthene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Fluorene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Naphthalene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Phenanthrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Pyrene	ND		25		ug/Kg		07/12/12 19:36	07/19/12 04:35	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		33 - 120				07/12/12 19:36	07/19/12 04:35	5
Terphenyl-d14	74		35 - 146				07/12/12 19:36	07/19/12 04:35	5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		3.0		mg/Kg		07/13/12 14:27	07/19/12 13:55	3
Motor Oil Range Organics [C24-C36]	310		150		mg/Kg		07/13/12 14:27	07/19/12 13:55	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.8		0 - 1				07/13/12 14:27	07/19/12 13:55	3
p-Terphenyl	24	X	38 - 148				07/13/12 14:27	07/19/12 13:55	3

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.47		mg/Kg		07/23/12 16:16	07/24/12 20:55	4
Chromium	81		1.9		mg/Kg		07/23/12 16:16	07/24/12 20:55	4
Nickel	140		1.9		mg/Kg		07/23/12 16:16	07/24/12 20:55	4
Lead	4.7		1.9		mg/Kg		07/23/12 16:16	07/24/12 20:55	4

Client Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Client Sample ID: SO-2344-COMP3-110712

Lab Sample ID: 720-43229-1

Date Collected: 07/11/12 08:45

Matrix: Solid

Date Received: 07/11/12 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	42		5.7		mg/Kg		07/23/12 16:16	07/24/12 20:55	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.13		mg/L		07/19/12 10:48	07/19/12 14:07	2.5
Cadmium	ND		0.050		mg/L		07/19/12 10:48	07/19/12 14:07	2.5
Nickel	3.6		0.25		mg/L		07/19/12 10:48	07/19/12 14:07	2.5
Zinc	ND		0.50		mg/L		07/19/12 10:48	07/19/12 14:07	2.5
Chromium	0.31		0.25		mg/L		07/19/12 10:48	07/19/12 14:07	2.5

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-117042/1-A

Matrix: Solid

Analysis Batch: 117026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg		07/12/12 07:30	07/12/12 08:37	1
Ethylbenzene	ND		5.0		ug/Kg		07/12/12 07:30	07/12/12 08:37	1
Toluene	ND		5.0		ug/Kg		07/12/12 07:30	07/12/12 08:37	1
Xylenes, Total	ND		10		ug/Kg		07/12/12 07:30	07/12/12 08:37	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		07/12/12 07:30	07/12/12 08:37	1
-C5-C12									
PCE	ND		5.0		ug/Kg		07/12/12 07:30	07/12/12 08:37	1
TCE	ND		5.0		ug/Kg		07/12/12 07:30	07/12/12 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		45 - 131	07/12/12 07:30	07/12/12 08:37	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140	07/12/12 07:30	07/12/12 08:37	1
Toluene-d8 (Surr)	98		58 - 140	07/12/12 07:30	07/12/12 08:37	1

Lab Sample ID: LCS 720-117042/2-A

Matrix: Solid

Analysis Batch: 117026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.4		ug/Kg		95	70 - 130
Ethylbenzene	50.0	43.8		ug/Kg		88	80 - 137
Toluene	50.0	47.0		ug/Kg		94	80 - 128
m-Xylene & p-Xylene	100	84.0		ug/Kg		84	70 - 146
o-Xylene	50.0	45.8		ug/Kg		92	70 - 140
PCE	50.0	57.6		ug/Kg		115	70 - 132
TCE	50.0	55.4		ug/Kg		111	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCS 720-117042/4-A

Matrix: Solid

Analysis Batch: 117026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)	1000	978		ug/Kg		98	61 - 128
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	91		45 - 131
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	99		58 - 140

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-117042/3-A

Matrix: Solid

Analysis Batch: 117026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117042

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.4		ug/Kg		95	70 - 130	0	20
Ethylbenzene	50.0	43.4		ug/Kg		87	80 - 137	1	20
Toluene	50.0	47.2		ug/Kg		94	80 - 128	0	20
m-Xylene & p-Xylene	100	83.4		ug/Kg		83	70 - 146	1	20
o-Xylene	50.0	47.8		ug/Kg		96	70 - 140	4	20
PCE	50.0	59.2		ug/Kg		118	70 - 132	3	20
TCE	50.0	55.0		ug/Kg		110	70 - 133	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	86		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Lab Sample ID: LCSD 720-117042/5-A

Matrix: Solid

Analysis Batch: 117026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117042

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	1000	973		ug/Kg		97	61 - 128	1	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	88		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-117079/1-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Acenaphthylene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[a]anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[a]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Chrysene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Fluoranthene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Fluorene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Naphthalene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Phenanthrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1
Pyrene	ND		5.0		ug/Kg		07/12/12 19:36	07/17/12 18:46	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-117079/1-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117079

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		33 - 120	07/12/12 19:36	07/17/12 18:46	1
Terphenyl-d14	95		35 - 146	07/12/12 19:36	07/17/12 18:46	1

Lab Sample ID: LCS 720-117079/2-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	332	257		ug/Kg		77	49 - 120
Acenaphthylene	332	252		ug/Kg		76	52 - 120
Anthracene	332	252		ug/Kg		76	52 - 120
Benzo[a]anthracene	332	247		ug/Kg		74	52 - 120
Benzo[a]pyrene	332	265		ug/Kg		80	54 - 120
Benzo[b]fluoranthene	332	278		ug/Kg		84	51 - 120
Benzo[g,h,i]perylene	332	295		ug/Kg		89	48 - 120
Benzo[k]fluoranthene	332	261		ug/Kg		78	56 - 120
Chrysene	332	257		ug/Kg		77	40 - 120
Dibenz(a,h)anthracene	332	275		ug/Kg		83	50 - 120
Fluoranthene	332	261		ug/Kg		79	57 - 120
Fluorene	332	254		ug/Kg		77	52 - 120
Indeno[1,2,3-cd]pyrene	332	281		ug/Kg		85	48 - 120
Naphthalene	332	235		ug/Kg		71	46 - 120
Phenanthrene	332	256		ug/Kg		77	48 - 120
Pyrene	332	272		ug/Kg		82	53 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		33 - 120
Terphenyl-d14	90		35 - 146

Lab Sample ID: LCSD 720-117079/3-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117079

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	328	270		ug/Kg		82	49 - 120	5	20
Acenaphthylene	328	265		ug/Kg		81	52 - 120	5	20
Anthracene	328	256		ug/Kg		78	52 - 120	1	20
Benzo[a]anthracene	328	247		ug/Kg		75	52 - 120	0	20
Benzo[a]pyrene	328	274		ug/Kg		83	54 - 120	3	20
Benzo[b]fluoranthene	328	273		ug/Kg		83	51 - 120	2	20
Benzo[g,h,i]perylene	328	295		ug/Kg		90	48 - 120	0	20
Benzo[k]fluoranthene	328	267		ug/Kg		81	56 - 120	2	20
Chrysene	328	258		ug/Kg		79	40 - 120	0	20
Dibenz(a,h)anthracene	328	275		ug/Kg		84	50 - 120	0	20
Fluoranthene	328	265		ug/Kg		81	57 - 120	1	20
Fluorene	328	258		ug/Kg		79	52 - 120	1	20
Indeno[1,2,3-cd]pyrene	328	285		ug/Kg		87	48 - 120	1	20
Naphthalene	328	247		ug/Kg		75	46 - 120	5	20
Phenanthrene	328	264		ug/Kg		80	48 - 120	3	20

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-117079/3-A

Matrix: Solid

Analysis Batch: 117297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117079

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Pyrene	328	275		ug/Kg		84	53 - 120	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
2-Fluorobiphenyl	83		33 - 120						
Terphenyl-d14	90		35 - 146						

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-117130/1-A

Matrix: Solid

Analysis Batch: 117182

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 117130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		07/13/12 14:27	07/16/12 13:23	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/13/12 14:27	07/16/12 13:23	1
Surrogate	%Recovery	MB Qualifier	Limits						
Capric Acid (Surr)	0		0 - 1						
p-Terphenyl	87		38 - 148						

Lab Sample ID: LCS 720-117130/2-A

Matrix: Solid

Analysis Batch: 117182

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 117130

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			82.1	68.6		mg/Kg		84	36 - 112		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
p-Terphenyl	74		38 - 148								

Lab Sample ID: LCSD 720-117130/3-A

Matrix: Solid

Analysis Batch: 117182

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 117130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	82.7	63.6		mg/Kg		77	36 - 112	8	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
p-Terphenyl	67		38 - 148						

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-117693/1-A

Matrix: Solid

Analysis Batch: 117789

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.13		mg/Kg		07/23/12 16:16	07/24/12 20:04	1
Lead	ND		0.50		mg/Kg		07/23/12 16:16	07/24/12 20:04	1
Nickel	ND		0.50		mg/Kg		07/23/12 16:16	07/24/12 20:04	1
Zinc	ND		1.5		mg/Kg		07/23/12 16:16	07/24/12 20:04	1
Chromium	ND		0.50		mg/Kg		07/23/12 16:16	07/24/12 20:04	1

Lab Sample ID: LCS 720-117693/2-A

Matrix: Solid

Analysis Batch: 117789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	44.9		mg/Kg		90	80 - 120
Lead	50.0	46.4		mg/Kg		93	80 - 120
Nickel	50.0	46.4		mg/Kg		93	80 - 120
Zinc	50.0	44.8		mg/Kg		90	80 - 120
Chromium	50.0	46.8		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 720-117693/3-A

Matrix: Solid

Analysis Batch: 117789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117693

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cadmium	50.0	45.1		mg/Kg		90	80 - 120	1	20
Lead	50.0	46.9		mg/Kg		94	80 - 120	1	20
Nickel	50.0	46.9		mg/Kg		94	80 - 120	1	20
Zinc	50.0	45.1		mg/Kg		90	80 - 120	1	20
Chromium	50.0	47.5		mg/Kg		95	80 - 120	2	20

Lab Sample ID: LCSSRM 720-117693/25-A

Matrix: Solid

Analysis Batch: 117789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117693

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	42.0	36.5		mg/Kg		87	67 - 118
Lead	280	257		mg/Kg		92	62 - 113
Nickel	106	96.0		mg/Kg		91	65 - 117
Zinc	574	487		mg/Kg		85	62 - 110
Chromium	269	246		mg/Kg		91	67 - 121

Lab Sample ID: MB 720-117466/1-A

Matrix: Solid

Analysis Batch: 117484

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 117466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		07/19/12 10:46	07/19/12 12:41	1
Lead	ND		0.0050		mg/L		07/19/12 10:46	07/19/12 12:41	1
Nickel	ND		0.010		mg/L		07/19/12 10:46	07/19/12 12:41	1
Zinc	ND		0.020		mg/L		07/19/12 10:46	07/19/12 12:41	1
Chromium	ND		0.010		mg/L		07/19/12 10:46	07/19/12 12:41	1

QC Sample Results

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-117466/2-A

Matrix: Solid

Analysis Batch: 117484

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1.00	1.01		mg/L		101	80 - 120
Lead	1.00	1.01		mg/L		101	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Zinc	1.00	1.00		mg/L		100	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: LCSD 720-117466/3-A

Matrix: Solid

Analysis Batch: 117484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 117466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.00	1.01		mg/L		101	80 - 120	0	20
Lead	1.00	1.02		mg/L		102	80 - 120	0	20
Nickel	1.00	1.01		mg/L		101	80 - 120	0	20
Zinc	1.00	1.00		mg/L		100	80 - 120	0	20
Chromium	1.00	1.00		mg/L		100	80 - 120	0	20

Lab Sample ID: LB4 720-117217/1-F LB4

Matrix: Solid

Analysis Batch: 117484

Client Sample ID: Method Blank

Prep Type: STLC Citrate

Prep Batch: 117466

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.050		mg/L		07/19/12 10:48	07/19/12 14:03	2.5
Lead	ND		0.13		mg/L		07/19/12 10:48	07/19/12 14:03	2.5
Nickel	ND		0.25		mg/L		07/19/12 10:48	07/19/12 14:03	2.5
Zinc	ND		0.50		mg/L		07/19/12 10:48	07/19/12 14:03	2.5
Chromium	ND		0.25		mg/L		07/19/12 10:48	07/19/12 14:03	2.5

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

GC/MS VOA

Analysis Batch: 117026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Total/NA	Solid	8260B	117042
LCS 720-117042/2-A	Lab Control Sample	Total/NA	Solid	8260B	117042
LCS 720-117042/4-A	Lab Control Sample	Total/NA	Solid	8260B	117042
LCSD 720-117042/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B	117042
LCSD 720-117042/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B	117042
MB 720-117042/1-A	Method Blank	Total/NA	Solid	8260B	117042

Prep Batch: 117042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Total/NA	Solid	5035	
LCS 720-117042/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-117042/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-117042/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-117042/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-117042/1-A	Method Blank	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 117079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Total/NA	Solid	3546	
LCS 720-117079/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-117079/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-117079/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 117297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117079/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	117079
LCSD 720-117079/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	117079
MB 720-117079/1-A	Method Blank	Total/NA	Solid	8270C SIM	117079

Analysis Batch: 117432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Total/NA	Solid	8270C SIM	117079

GC Semi VOA

Prep Batch: 117130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Silica Gel Cleanup	Solid	3546	
LCS 720-117130/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-117130/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-117130/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 117182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117130/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	117130
LCSD 720-117130/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	117130
MB 720-117130/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	117130

QC Association Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

GC Semi VOA (Continued)

Analysis Batch: 117446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Silica Gel Cleanup	Solid	8015B	117130

Metals

Leach Batch: 117217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	STLC Citrate	Solid	CA WET Citrate	
LB4 720-117217/1-F LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 117466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	STLC Citrate	Solid	3005A	117217
LB4 720-117217/1-F LB4	Method Blank	STLC Citrate	Solid	3005A	117217
LCS 720-117466/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-117466/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-117466/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 117484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	STLC Citrate	Solid	6010B	117466
LB4 720-117217/1-F LB4	Method Blank	STLC Citrate	Solid	6010B	117466
LCS 720-117466/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	117466
LCSD 720-117466/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	117466
MB 720-117466/1-A	Method Blank	Total Recoverable	Solid	6010B	117466

Prep Batch: 117693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Total/NA	Solid	3050B	
LCS 720-117693/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-117693/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-117693/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-117693/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 117789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-117693/2-A	Lab Control Sample	Total/NA	Solid	6010B	117693
LCSD 720-117693/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	117693
LCSSRM 720-117693/25-A	Lab Control Sample	Total/NA	Solid	6010B	117693
MB 720-117693/1-A	Method Blank	Total/NA	Solid	6010B	117693

Analysis Batch: 117802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-43229-1	SO-2344-COMP3-110712	Total/NA	Solid	6010B	117693

Lab Chronicle

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Client Sample ID: SO-2344-COMP3-110712

Lab Sample ID: 720-43229-1

Date Collected: 07/11/12 08:45

Matrix: Solid

Date Received: 07/11/12 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			117042	07/12/12 13:45	DH	TAL SF
Total/NA	Analysis	8260B		1	117026	07/12/12 17:43	AC	TAL SF
Total/NA	Prep	3546			117079	07/12/12 19:36	RU	TAL SF
Total/NA	Analysis	8270C SIM		5	117432	07/19/12 04:35	ML	TAL SF
Silica Gel Cleanup	Prep	3546			117130	07/13/12 14:27	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		3	117446	07/19/12 13:55	JZ	TAL SF
STLC Citrate	Leach	CA WET Citrate			117217	07/16/12 12:51	JR	TAL SF
STLC Citrate	Prep	3005A			117466	07/19/12 10:48	ET	TAL SF
STLC Citrate	Analysis	6010B		2.5	117484	07/19/12 14:07	CAM	TAL SF
Total/NA	Prep	3050B			117693	07/23/12 16:16	JR	TAL SF
Total/NA	Analysis	6010B		4	117802	07/24/12 20:55	BA	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SF
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Antea USA, Inc.
Project/Site: UPRR- Santa Rosa

TestAmerica Job ID: 720-43229-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-43229-1	SO-2344-COMP3-110712	Solid	07/11/12 08:45	07/11/12 18:40

7/25/2012

Login Sample Receipt Checklist

Client: Antea USA, Inc.

Job Number: 720-43229-1

Login Number: 43229

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Appendix G

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest
Document No.

2. Page 1
of

097077

3. Generator's Name and Mailing Address

9451 ATKINSON ST. S.W. 40100
CORVINE CA 95117
CORVINE CA 95117

UNION PACIFIC RAILROAD
2400 N. 1st St. 34 South Street
Santa Ana CA 92702

4. Generator's Phone (916) 267-5165

5. Transporter 1 Company Name

UNITED PUMPING SERVICE, INC.

6. US EPA ID Number

C.A.D. 0.7.2.9.5.3.7.7

A. Transporter's Phone

626 951-9326

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

SEA PORT
679 Seaport Blvd.
Redwood City CA 94063

10. US EPA ID Number

C. Facility's Phone

(650) 364-1024

11. Waste Shipping Name and Description

12. Containers

13.
Total
Quantity

14.
Unit
Wt/Vol

a. Non-Hazardous waste liquid

No.

Type

b.

c.

d.

D. Additional Description for Materials Listed Above

a. Greasy water

b.

E. Handling Codes for Wastes Listed Above

a.

b.

15. Special Handling Instructions and Additional Information

24-HR. EMERGENCY PH: 626/ 951-9326

WEAR APPROPRIATE PROTECTIVE EQUIPMENT
WO #

16. GENERATOR'S CERTIFICATION: I Certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Type Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Type Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Type Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of Receipt or waste materials covered by this manifest as noted in Item 19.

Printed/Type Name

Signature

Month Day Year

TRANSPORTER #2

#2625

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WA	2. Page 1 of 1	3. Emergency Response Phone 800-898-1477	4. Waste Tracking Number WGA 82920	
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA Generator's Phone: 918-789-5184			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA			
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CA000014880			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8428 HAY RD VACAVILLE, CA 95687 USA Facility's Phone: 707-878-4718			U.S. EPA ID Number CA00002042176			
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Mt./Vol.
	1. NON HAZARDOUS SOILS		No.	Type		
			1	DT	18	Y
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled, placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
TRANSPORTER INTL	Generator's/Offeror's Printed/Typed Name NICK QUEZADA		Signature <i>[Signature]</i>		Month Day Year 27 10 12	
	15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit 3210			
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name ANTONIO GONZALEZ		Signature <i>[Signature]</i>		Month Day Year 8 25 10 12	
TRANSPORTER	Transporter 2 Printed/Typed Name		Signature <i>[Signature]</i>		Month Day Year 7 10 12	
	17. Discrepancy					
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
DESIGNATED FACILITY	17b. Alternate Facility (or Generator)		Manifest Reference Number		U.S. EPA ID Number	
	Facility's Phone:					
	17c. Signature of Alternate Facility (or Generator)		Month Day Year 8 25 10 12			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a. Printed/Typed Name <i>[Signature]</i> Month Day Year 17 10 12						

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NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number HWA	2. Page 1 of 1	3. Emergency Response Phone 800-835-1477	4. Waste Tracking Number WA# 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-789-5184					
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CA05700175637		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8425 HAY RD VACAVILLE, CA 95687 USA			U.S. EPA ID Number CA0982042475		
Facility's Phone: 707-678-4718					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit
		No.	Type		Wt/Vol
1. NON HAZARDOUS SOILS		1	DT	18	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR/S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name: Agent R. UPRR Signature: <i>[Signature]</i> Month: 4 Day: 10 Year: 12					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: 32 00 Date leaving U.S.: 1-11-12					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name: JEFF BAIN Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (for Generator) Manifest Reference Number: U.S. EPA ID Number:					
Facility's Phone: Month: Day: Year:					
17c. Signature of Alternate Facility (for Generator) Month: Day: Year:					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name: Tom Wilson Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number W01# 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-782-5188					
6. Transporter 1 Company Name L.H. Consulting			U.S. EPA ID Number CA0002513512		
7. Transporter 2 Company Name			U.S. EPA ID Number CA0000175137		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8426 HAY RD VACAVILLE, CA 95687 USA			U.S. EPA ID Number CA0882642475		
Facility's Phone: 707-878-4718					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS SOILS		1	DT	12	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5410 DENGESTE JOB NUMBER: 0810810 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offor's Printed/Typed Name NOR Quezada Signature <i>[Signature]</i> Month Day Year 4/7/10/12					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: SEA Date leaving U.S.: 5/1/12					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name JEFF BAIN Signature <i>[Signature]</i> Month Day Year 7/10/12					
Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____/_____/_____					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____					
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator) Month Day Year _____/_____/_____					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name don Signature <i>[Signature]</i> Month Day Year 7/10/12					

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NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number WG# 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA Generator's Phone: 916-708-5184			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CA000007378		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8428 HAY RD VACAVILLE, CA 95687 USA Facility's Phone: 707-878-4710			U.S. EPA ID Number CAD882042675		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS SOILS		No.	Type	18	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name: <i>Agent for UPRR</i> Signature: <i>[Signature]</i> Month: <i>4</i> Day: <i>17</i> Year: <i>12</i>					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: <i>32.00</i> Date leaving U.S.: <i>1-12-12</i>					
16. Transporter's Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name: <i>Jose R. Balle</i> Signature: <i>[Signature]</i> Month: <i>7</i> Day: <i>10</i> Year: <i>12</i>					
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (for Generator) Manifest Reference Number: U.S. EPA ID Number:					
Facility's Phone: 17c. Signature of Alternate Facility (for Generator) Month: Day: Year:					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name: <i>Jose R. Balle</i> Signature: <i>[Signature]</i> Month: <i>7</i> Day: <i>10</i> Year: <i>12</i>					

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NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number W0# 82920	
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95741 USA Generator's Phone: 916-780-9104			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA			
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CA00001324			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address RECOLOGY HAY RD 2428 HAY RD VACAVILLE, CA 95697 USA Facility's Phone: 707-876-4718			U.S. EPA ID Number CA00002475			
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1. NON HAZARDOUS SOILS		1	DT	18	Y
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information: WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name: <u>Nora Quenda</u> Signature: <u>[Signature]</u> Month: <u>12</u> Day: <u>10</u> Year: <u>12</u>						
TRANSPORTER INTL	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: <u>Steven Jose Botello</u> Signature: <u>[Signature]</u> Month: <u>7</u> Day: <u>10</u> Year: <u>12</u> Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____					
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____					
	17c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____					
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 17a Printed/Typed Name: <u>[Signature]</u> Signature: <u>[Signature]</u> Month: <u>7</u> Day: <u>10</u> Year: <u>12</u>						

#2595

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NVA	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number W01182920 (51)
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-783-5184					
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC. WAH			U.S. EPA ID Number CAD000103121		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8426 HAY RD VACAVILLE, CA 94987 USA			U.S. EPA ID Number CAD962042475		
Facility's Phone: 707-878-4718					
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1. NON HAZARDOUS SOILS		1	DT	18 Y
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10018 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name: Nuc Over each Agent per UPR Signature: <i>[Signature]</i> Month: 11 Day: 19 Year: 12					
INTL	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: 32-00				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: DRACK CARRO Signature: P. Carr Month: 11 Day: 17 Year: 12				
	Transporter 2 Printed/Typed Name: Signature: Month: 7 Day: 10 Year: 12				
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
	17b. Alternate Facility (for Generator) Manifest Reference Number: U.S. EPA ID Number:				
	Facility's Phone: 17c. Signature of Alternate Facility (for Generator): Month: 11 Day: 17 Year: 12				
18. Designated Facility Owner or Operator Certification (I receipt of materials covered by the manifest except as noted in item 17a) Printed/Typed Name: jem Wilson Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					

2595

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NA	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number USA 87920 (22)
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10831 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-780-6184					
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CAD00103127		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8428 HAY RD VACAVILLE, CA 95687 USA			U.S. EPA ID Number CAD002042475		
Facility's Phone: 707-878-4710					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS SOILS		1	DT	18	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10018 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name: NOR Overlander Signature: <i>[Signature]</i> Month: 11 Day: 10 Year: 12					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: SEALED Date leaving U.S.: 11/17/12					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name: P. CARSO Signature: <i>[Signature]</i> Month: 11 Day: 17 Year: 12					
Transporter 2 Printed/Typed Name			Signature: <i>[Signature]</i> Month: 11 Day: 10 Year: 12		
17. Discrepancy					
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator)			Manifest Reference Number: U.S. EPA ID Number:		
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month: 11 Day: 17 Year: 12					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Month: 11 Day: 10 Year: 12					

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
N/A

2. Page 1 of
1

3. Emergency Response Phone
800-838-1477

4. Waste Tracking Number
WTP # 82920

5. Generator's Name and Mailing Address
**UNION PACIFIC RAILROAD
10031 FOOTHILLS BLVD.
ROSEVILLE, CA 95747 USA**

Generator's Site Address (if different than mailing address)
**2 FOURTH STREET - SMART RAIL SITE
SANTA ROSA, CA 95404 USA**

Generator's Phone: **916-789-5184**

6. Transporter 1 Company Name

DENBESTE TRANSPORTATION INC

U.S. EPA ID Number

CA00000103127

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**RECOLOGY HAY RD
6428 HAY RD
VACAVILLE, CA 95687 USA**

U.S. EPA ID Number

CAD862042475

Facility's Phone: **707-878-4719**

9. Waste Shipping Name and Description

NON HAZARDOUS SOILS

10. Containers

1 **DT**

11. Total
Quantity

15

12. Unit
Wt./Vol.

Y

13. Special Handling Instructions and Additional Information

WASTE PROFILE NUMBER: 5418

DENBESTE JOB NUMBER: DB10018

WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offlor's Printed/Typed Name

WAC Arizona

Signature

Month Day Year

2/7/12

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S.

Transporter Signature (for exports only):

Port of entry/exit:

Date leaving U.S.:

32-00

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Tim Barker

Signature

Month Day Year

6/7/12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

6/7/12

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

6/7/12

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

7/10/12

9D64 312 6160

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number Wb# 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generators Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-768-5184					
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number 1A0000154410		
7. Transporter 2 Company Name			U.S. EPA ID Number CA0982513632		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8428 HAY RD VACAVILLE, CA 95687 USA			U.S. EPA ID Number CA0982042475		
Facility's Phone: 707-678-4718					
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1. NON HAZARDOUS SOILS		1	DT	18
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL.					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name NOC Quezada Signature [Signature] Month 4 Day 9 Year 12					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: 32 Date leaving U.S.: 12/10/12					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name FLAVIO C GONZALEZ Signature [Signature] Month 12 Day 10 Year 12					
Transporter 2 Printed/Typed Name Signature Month Day Year					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Tam Wils Signature [Signature] Month 7 Day 10 Year 12					

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
N/A

2. Page 1 of 1

3. Emergency Response Phone
800-838-1477

4. Waste Tracking Number

W04 82920

5. Generator's Name and Mailing Address
**UNION PACIFIC RAILROAD
10031 FOOTHILLS BLVD.
ROSEVILLE, CA 95747 USA**

Generator's Phone: **916-789-5184**

Generator's Site Address (if different than mailing address)
**2 FOURTH STREET - SMART RAIL SITE
SANTA ROSA, CA 95404 USA**

6. Transporter 1 Company Name

DENBESTE TRANSPORTATION INC

U.S. EPA ID Number

CA000015412

7. Transporter 2 Company Name

T J Perez TRUCKING

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**RECOLOGY HAY RD
8428 HAY RD
VACAVILLE, CA 94987 USA**

U.S. EPA ID Number

CAD982042475

Facility's Phone: **707-678-4718**

9. Waste Shipping Name and Description

NON HAZARDOUS SOILS

10. Containers

No. Type

1 DT

11. Total Quantity

18

12. Unit

Y

13. Special Handling Instructions and Additional Information

WASTE PROFILE NUMBER: 8418

DENBESTE JOB NUMBER: DB10818

WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

14. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

NOR Quesada

Signature

[Signature]

Month Day Year

7/10/12

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Francisco Cleaver

Signature

[Signature]

Month Day Year

7/10/12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

7/10/12

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

7/10/12

Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Name

Tamara M...

Signature

[Signature]

Month Day Year

7/10/12

498 (Rev. 9/09)

TRANSPORTER #1

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
N/A

2. Page 1 of 1

3. Emergency Response Phone
800-838-1477

4. Waste Tracking Number
WGA 8292 W

5. Generator's Name and Mailing Address
**UNION PACIFIC RAILROAD
10031 FOOTHILLS BLVD.
ROSEVILLE, CA 95747 USA**

Generator's Site Address (if different than mailing address)
**2 FOURTH STREET - SMART RAIL SITE
SANTA ROSA, CA 95404 USA**

Generator's Phone: **916-789-5184**

6. Transporter 1 Company Name

DENSESTE TRANSPORTATION INC

JP Perez Trucking

U.S. EPA ID Number
CA 000154476

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**RECOLOGY HAY RD
8428 HAY RD
VACAVILLE, CA 95697 USA**

U.S. EPA ID Number
CAD082042475

Facility's Phone: **707-878-4718**

9. Waste Shipping Name and Description

NON HAZARDOUS SOILS

10. Containers

No. Type

11. Total Quantity

12. Unit Wt/Vol

1

OT

18

Y

13. Special Handling Instructions and Additional Information

WASTE PROFILE NUMBER: 5419

DENSESTE JOB NUMBER: DB10810

WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

NOR Quezada Agent Per. U.P.R.R.

Signature

[Signature]

Month Day Year

11/16/12

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

32 00

11/30/12

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Daniel Gomer

Signature

[Signature]

Month Day Year

7/10/12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

7/10/12

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Tam Wilson

Signature

[Signature]

Month Day Year

11/16/12

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number WIS # 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 POOTHILLS BLVD. ROSEVILLE, CA 95747 USA Generator's Phone: 916-769-5184			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC JT Perez Trucking				U.S. EPA ID Number CAD000513492	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address REDOLOGY HAY RD 3428 HAY RD VACAVILLE, CA 94987 USA Facility's Phone: 707-478-4718				U.S. EPA ID Number CAD0002042475	
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit WL/vl
		No.	Type		
1. NON HAZARDOUS SOILS		1	DT	1B	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 541B DENBESTE JOB NUMBER: DB10018 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name Nue Oveasala		Signature <i>[Signature]</i>		Month Day Year 17 10 12	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Daniel Gomez		Signature <i>[Signature]</i>		Month Day Year 17 10 12	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator): U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator): Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 17 10 12	

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(0166)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 18031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-789-5184					
6. Transporter 1 Company Name DENSESTE TRANSPORTATION INC			U.S. EPA ID Number CA R000157016		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 6426 HAY RD VACAVILLE, CA 94997 USA			U.S. EPA ID Number CAD982042475		
Facility's Phone: 707-878-4718					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS SOILS		1	DT	18	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENSESTE JOB NUMBER: DS10818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name Noe Overach		Signature <i>[Signature]</i>		Month 9	Day 5
				Year 12	
15. International Shipments ☐ Import to U.S.		☐ Export from U.S.		Port of entry/exit: 32.00	
Transporter Signature (for exports only):		Date leaving U.S.:		7-75-12	
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name AIC-10-10-12		Signature <i>[Signature]</i>		Month 7	Day 10
Transporter 2 Printed/Typed Name:		Signature		Month	Day
				Year	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month 7 Day 10 Year 12					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a Printed/Typed Name Tammy Wilks Signature <i>[Signature]</i> Month 7 Day 10 Year 12					

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number WAH 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (If different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 916-788-5104					
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CA0982042475		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 6428 HAY RD VACAVILLE, CA 95687 USA			U.S. EPA ID Number CA0982042475		
Facility's Phone: 707-678-3718					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS SOILS		1	DT	18	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: 0510818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name: NOC Overata Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: 32 00 Date leaving U.S.: 7/5/12					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month: 7 Day: 10 Year: 12					
18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name: Tom Wicks Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number
NA

2. Page 1 of 1

3. Emergency Response Phone
800-838-1477

4. Waste Tracking Number

W0482920

5. Generator's Name and Mailing Address
**UNION PACIFIC RAILROAD
10031 FOOTHILLS BLVD.
ROSEVILLE, CA 95747 USA**

Generator's Site Address (if different than mailing address)

**2 FOURTH STREET - SMART RAIL SITE
SANTA ROSA, CA 95404 USA**

Generator's Phone: **916-788-5184**

6. Transporter 1 Company Name

DEMESTE TRANSPORTATION INC

F. SALAS TONG

U.S. EPA ID Number
CA15-000130631

6AD58542832

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**RECOLOGY HAY RD
8428 HAY RD
VACAVILLE, CA 94987 USA**

U.S. EPA ID Number

CAD982042475

Facility's Phone: **707-678-4718**

9. Waste Shipping Name and Description

NON HAZARDOUS SOILS

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1

OT

10

Y

13. Special Handling Instructions and Additional Information

WASTE PROFILE NUMBER: 5418

DEMESTE JOB NUMBER: DB10018

LIC# 9089822

WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Nick Quezada

Agent for VPP

Signature

[Signature]

Month Day Year

7/7/12

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

22-00

Date leaving U.S.

7/9/12

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Fernando Salas

Signature

[Signature]

Month Day Year

7/10/12

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

7/10/12

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Fernando Salas

Signature

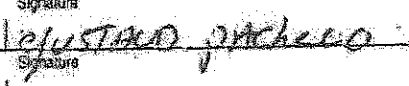
[Signature]

Month Day Year

7/10/12

17

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-938-1477	4. Waste Tracking Number UG# 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA Generator's Phone: 916-788-5194			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC			U.S. EPA ID Number CAD980000605		
7. Transporter 2 Company Name A111111 TRUCKING			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8428 HAY RD VACAVILLE, CA 94987 USA Facility's Phone: 707-878-4718			U.S. EPA ID Number CAD982042475		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit ML/Vol
		No.	Type		
1. NON HAZARDOUS SOILS		1	DT	18	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: 0810818 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name NUE QAZZADA Agent Per U.P.R.R. Signature Month Day Year 4/7/12					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Transporter Signature (for exports only): Part of entry/exit: 3206 Date leaving U.S.: 1/4/12					
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year 17/10/12 Transporter 2 Printed/Typed Name Signature Month Day Year					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year 1/10/12					
18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signature Month Day Year 17/10/12					

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A		2. Page 1 of 2	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number W01 92920	
		5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA		Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA			
Generator's Phone: 916-799-5184		6. Transporter 1 Company Name DENBESTE TRANSPORTATION INC				U.S. EPA ID Number CAD983513032	
7. Transporter 2 Company Name						U.S. EPA ID Number	
8. Designated Facility Name and Site Address RECOLOGY HAY RD 6435 HAY RD VACAVILLE, CA 95687 USA						U.S. EPA ID Number CAD982042475	
Facility's Phone: 707-878-4718							
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt/Vol		
		No.	Type				
1. NON HAZARDOUS SOILS		1	DT	10	Y		
2.							
3.							
4.							
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 6418 DENBESTE JOB NUMBER: DB10918 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Officer's Printed/Typed Name Nora Quetzada		Signature 				Month Day Year 17 10 12	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: 52				Date leaving U.S.: 17 10 12	
16. Transporter Acknowledgment of Receipt of Materials		Signature GUSTAVO PACHECO				Month Day Year 17 10 12	
Transporter 1 Printed/Typed Name GUSTAVO PACHECO		Signature 				Month Day Year 17 10 12	
Transporter 2 Printed/Typed Name						Month Day Year 17 10 12	
17. Discrepancy							
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
17b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number			
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)				Month Day Year 17 10 12			
18. Designated Facility Owner or Operator. Certification of receipt of materials covered by this Manifest except as noted in item 17a							
Printed/Typed Name Erwin		Signature 				Month Day Year 17 10 12	

12

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number N/A	2. Page 1 of 1	3. Emergency Response Phone 800-838-1477	4. Waste Tracking Number W6A 82920
5. Generator's Name and Mailing Address UNION PACIFIC RAILROAD 10031 FOOTHILLS BLVD. ROSEVILLE, CA 95747 USA			Generator's Site Address (if different than mailing address) 2 FOURTH STREET - SMART RAIL SITE SANTA ROSA, CA 95404 USA		
Generator's Phone: 915-799-5184					
6. Transporter 1 Company Name BAJOY TRANSFORMATION SOLUTIONS LLC			U.S. EPA ID Number CAR 003 919956		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address RECOLOGY HAY RD 8428 HAY RD VACAVILLE, CA 95687 USA			U.S. EPA ID Number CAD882042475		
Facility's Phone: 707-878-4718					
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1. NON HAZARDOUS SOILS		1	DT	18
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information WASTE PROFILE NUMBER: 5418 DENBESTE JOB NUMBER: DB10018 WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL					
14. GENERATOR/SIGNER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in at all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name Noe Overada Agent Per UPRR Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					
TRANSPORTER	15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:				
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name CLARENCE M. BODLEY Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:				
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
	17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:				
	Facility's Phone: Month: Day: Year:				
17c. Signature of Alternate Facility (or Generator) Month: Day: Year:					
18. Designated Facility Owner or Operator, Certification of receipt of materials covered by the manifest except as noted in item 17a Printed/Typed Name: Terry Williams Signature: <i>[Signature]</i> Month: 7 Day: 10 Year: 12					

☒ Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9991	☐ Coffin Butte Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826	☐ Ox Mountain Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183	☐ Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871	☐ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009
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NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. 746269	
MAILING ADDRESS 10031 FOOTHILLS BLVD		REQUIRED PERSONAL PROTECTIVE EQUIPMENT	
CITY, STATE, ZIP ROSEVILLE, CA 95747		☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT	
PHONE 916.789.5184		☐ TY-VEK ☐ SAFETY VEST	
CONTACT PERSON JIM DIEL		SPECIAL HANDLING PROCEDURES	
SIGNATURE OF AUTHORIZED AGENT / TITLE <i>[Signature]</i> Agent for U.P.R.P.		DATE 7-11-12	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.		RECEIVING FACILITY	
WASTE TYPE:		SWIC# 4212 118254	
☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER ☐ SPECIAL WASTE		_____ _____ _____ _____ _____	
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404		_____ _____ _____ _____ _____	
TRANSPORTER J. J. PEST TRUCKING		NOTES:	
ADDRESS 810 DENBESTE CT. SUITE 107 WINDSOR, CA 95402		VEHICLE LICENSE NUMBER 9D6842	
PHONE 800.838.1477		TRUCK NUMBER 68	
SIGNATURE OF AUTHORIZED AGENT OR DRIVER <i>[Signature]</i>		DATE 7/11/12	
_____		☒ END DUMP ☐ BOTTOM DUMP ☐ TRANSFER	
_____		☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS	
_____		185.14	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 20	
REMARKS		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)	
FACILITY TICKET NUMBER		☒ SOIL ☐ DISPOSE ☐ OTHER	
SIGNATURE OF AUTHORIZED AGENT <i>[Signature]</i>		☐ CONSTRUCTION DEBRIS	
DATE 7-11-12		☐ NON-FRIABLE ASBESTOS 185.14	
_____		☐ WOOD	
_____		☐ ASH	
_____		☐ SPECIAL OTHER	

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615961

☒ Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891	☐ Coffin Butte Landfill 28972 Coffin Butte Road Corvallis, OR 97331 Phone (541) 745-2018 Fax (541) 745-3826	☒ Ox Mountain Sanitary Landfill 22310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183	☐ Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871	☐ Forward Landfill 9999 S. Austin Road Marleca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009
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NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD MAILING ADDRESS 10031 FOOTHILLS BLVD CITY, STATE, ZIP ROSEVILLE, CA 95747 PHONE 916.789.5184 CONTACT PERSON JIM DIEL SIGNATURE OF AUTHORIZED AGENT / TITLE DATE <i>[Signature]</i> Agent Rep. U.P.R.R. 7-11-12		WASTE ACCEPTANCE NO. 765862 REQUIRED PERSONAL PROTECTIVE EQUIPMENT ☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST SPECIAL HANDLING PROCEDURES: Switch # 4212118254 RECEIVING FACILITY 																			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.		WASTE TYPE: ☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER ☐ SPECIAL WASTE GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404																			
TRANSPORTER DANIEL GORMAN ADDRESS 3357 5th St 210 DENVER ST. SUITE 100 CITY, STATE, ZIP SAN JOSE, CA 95122 PHONE 408.922.1477 SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE <i>[Signature]</i> 7/11/12		NOTES: VEHICLE LICENSE NUMBER TRUCK NUMBER 9007540 69 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">END DUMP</td> <td style="width: 33%;">BOTTOM DUMP</td> <td style="width: 33%;">TRANSFER</td> </tr> <tr> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>ROLL-OFF(S)</td> <td>FLAT-BED</td> <td>VAN</td> </tr> <tr> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td></td> <td></td> <td>DRUMS</td> </tr> <tr> <td></td> <td></td> <td>706.42</td> </tr> </table>		END DUMP	BOTTOM DUMP	TRANSFER	☒	☐	☐	ROLL-OFF(S)	FLAT-BED	VAN	☐	☐	☐			DRUMS			706.42
END DUMP	BOTTOM DUMP	TRANSFER																			
☒	☐	☐																			
ROLL-OFF(S)	FLAT-BED	VAN																			
☐	☐	☐																			
		DRUMS																			
		706.42																			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 20 DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DISPOSE</td> <td style="width: 50%;">OTHER</td> </tr> <tr> <td>☒ SOIL</td> <td></td> </tr> <tr> <td>☐ CONSTRUCTION DEBRIS</td> <td></td> </tr> <tr> <td>☐ NON-FRIABLE ASBESTOS</td> <td></td> </tr> <tr> <td>☐ WOOD</td> <td></td> </tr> <tr> <td>☐ ASH</td> <td></td> </tr> <tr> <td>☐ SPECIAL OTHER</td> <td></td> </tr> </table>		DISPOSE	OTHER	☒ SOIL		☐ CONSTRUCTION DEBRIS		☐ NON-FRIABLE ASBESTOS		☐ WOOD		☐ ASH		☐ SPECIAL OTHER					
DISPOSE	OTHER																				
☒ SOIL																					
☐ CONSTRUCTION DEBRIS																					
☐ NON-FRIABLE ASBESTOS																					
☐ WOOD																					
☐ ASH																					
☐ SPECIAL OTHER																					
REMARKS FACILITY TICKET NUMBER SIGNATURE OF AUTHORIZED AGENT DATE <i>[Signature]</i> 7-11-12		706.42																			

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615962

☒ Keller Canyon Sanitary Landfill 901 Bailey Road Pittsburg, CA 94565 Phone (925) 458-9800 Fax (925) 458-9891	☐ Coffin Butte Landfill 28972 Coffin Butte Road Corvallis, OR 97330 Phone (541) 745-2018 Fax (541) 745-3826	☒ Ox Mountain Sanitary Landfill 12310 San Mateo Road Half Moon Bay, CA 94019 Phone (650) 726-1819 Fax (650) 726-9183	☐ Newby Island Sanitary Landfill 1601 Dixon Landing Road Milpitas, CA 95035 Phone (408) 945-2800 Fax (408) 262-2871	☐ Forward Landfill 9999 S. Austin Road Manteca, CA 95336 Phone (209) 982-4298 Fax (209) 982-1009
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NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD MAILING ADDRESS 10031 FOOTHILLS BLVD CITY, STATE, ZIP ROSEVILLE, CA 95747 PHONE 916.789.5184 CONTACT PERSON JIM DIEL SIGNATURE OF AUTHORIZED AGENT / TITLE <i>[Signature]</i> Agent U.P.R.R. DATE 7-11-12		WASTE ACCEPTANCE NO. 716860 REQUIRED PERSONAL PROTECTIVE EQUIPMENT ☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST SPECIAL HANDLING PROCEDURES SWIC # 4212118254 RECEIVING FACILITY 															
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261. WASTE TYPE: ☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404		TRANSPORTER <i>L & H Consulting</i> ADDRESS <i>DENBESTE TRANSPORTATION INC.</i> 245 QUAIL CT. SANTA PAULA, CA 93060 810 DENBESTE CT. SUITE 107 CITY, STATE, ZIP WINDSOR, CA 95492 PHONE 800-838-1477 805-691-3775 SIGNATURE OF AUTHORIZED AGENT OR DRIVER <i>[Signature]</i> DATE 7/11/12															
NOTES: VEHICLE LICENSE NUMBER: 9024975 TRUCK NUMBER: 203 END DUMP ☒ BOTTOM DUMP ☐ TRANSFER ☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS ☐ 909.79		CUBIC YARDS 20 DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">DISPOSE</th> <th style="width: 50%;">OTHER</th> </tr> <tr> <td>☒</td> <td></td> </tr> <tr> <td>☐ CONSTRUCTION DEBRIS</td> <td></td> </tr> <tr> <td>☐ NON-FRIABLE ASBESTOS</td> <td>104.79</td> </tr> <tr> <td>☐ WOOD</td> <td></td> </tr> <tr> <td>☐ ASH</td> <td></td> </tr> <tr> <td>☐ SPECIAL OTHER</td> <td></td> </tr> </table>		DISPOSE	OTHER	☒		☐ CONSTRUCTION DEBRIS		☐ NON-FRIABLE ASBESTOS	104.79	☐ WOOD		☐ ASH		☐ SPECIAL OTHER	
DISPOSE	OTHER																
☒																	
☐ CONSTRUCTION DEBRIS																	
☐ NON-FRIABLE ASBESTOS	104.79																
☐ WOOD																	
☐ ASH																	
☐ SPECIAL OTHER																	
REMARKS I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. FACILITY TICKET NUMBER SIGNATURE OF AUTHORIZED AGENT <i>[Signature]</i> DATE 7-11-12		SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.															

TRANSPORTER COPY

MANIFEST # 615963

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9881

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-9826

☐ Ox Mountain
Sanitary Landfill
2310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1801 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. 76022	
MAILING ADDRESS 10031 FOOTHILLS BLVD		REQUIRED PERSONAL PROTECTIVE EQUIPMENT	
CITY, STATE, ZIP ROSEVILLE, CA 95747		☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT	
PHONE 916 789 5184		☐ TY-VEK ☒ SAFETY VEST	
CONTACT PERSON JIM DIEL		SPECIAL HANDLING PROCEDURES: PROFIB 42121118254	
SIGNATURE OF AUTHORIZED AGENT / TITLE <i>[Signature]</i> Agent for UPRR		RECEIVING FACILITY	
DATE 7-11-12			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or 262 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously regulated hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			
WASTE TYPE:			
☐ DISPOSAL ☐ CONSTRUCTION ☐ DEBRIS ☐ SPECIAL WASTE		☒ SLUDGE ☐ WOOD ☐ OTHER	
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404			
TRANSPORTER DELMESTRE TRANSPORTATION INC. WAH		NOTES:	
ADDRESS 110 BENDRIDGE CT SUITE 107 130 E. 54TH AVE		VEHICLE LICENSE NUMBER 9B34792	
CITY, STATE, ZIP HUNTSBOR, CA 95122 FARMLOCK, CA		TRUCK NUMBER WJ2	
PHONE 908 338 1477 95380			
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * <i>[Signature]</i> Post Rel. Care		END DUMP ☒ BOTTOM DUMP ☐ TRANSFER ☐	
DATE 7-11-12		ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS ☐	
		903.63	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 20	
REMARKS		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)	
FACILITY TICKET NUMBER		DISPOSE ☒ OTHER ☐	
SIGNATURE OF AUTHORIZED AGENT * <i>[Signature]</i>		☒ SOIL ☐ CONSTRUCTION DEBRIS ☐ NON-FRIABLE ASBESTOS ☐ WOOD ☐ ASH ☐ SPECIAL OTHER	
DATE 7-11-12		903.63	

SCHEDULING MUST BE MADE PRIOR TO 3:00 PM THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615964

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
612310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1801 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 282-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. 66015	
MAILING ADDRESS 10031 FOOTHILLS BLVD CITY/STATE, ZIP ROSEVILLE, CA 95747		REQUIRED PERSONAL PROTECTIVE EQUIPMENT ☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST	
PHONE 916.789.5184		SPECIAL HANDLING PROCEDURES: SWIC # 4212 11/8254	
CONTACT PERSON JIM DIEL		RECEIVING FACILITY	
SIGNATURE OF AUTHORIZED AGENT / TITLE * [Signature] U.P.R.R. Agent		DATE 7-11-12	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			
WASTE TYPE: ☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER ☐ SPECIAL WASTE			
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404			
TRANSPORTER DENBESTE TRANSPORTATION INC. ADDRESS: 3024 SAN MARCO ST. 810 DENBESTE CT. SUITE 107 CITY, STATE, ZIP: WINDSOR, CA 95493 PHONE: 925.386.9250		NOTES: VEHICLE LICENSE NUMBER: 9095753 TRUCK NUMBER: 25	
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * [Signature]		DATE 7/11/12	
REMARKS		CUBIC YARDS 20	
FACILITY TICKET NUMBER		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)	
SIGNATURE OF AUTHORIZED AGENT * [Signature]		DISPOSE ☒ CONSTRUCTION DEBRIS ☐ NON-FRIABLE ASBESTOS ☐ WOOD ☐ ASH ☐ SPECIAL OTHER	
DATE 7-11-12		OTHER 139.84	

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615965

☒ **Keller Canyon**
 Sanitary Landfill
 901 Bailey Road
 Pittsburg, CA 94565
 Phone (925) 458-9800
 Fax (925) 458-9891

☐ **Coffin Butte**
 Landfill
 28972 Coffin Butte Road
 Corvallis, OR 97330
 Phone (541) 745-2018
 Fax (541) 745-3828

☐ **Ox Mountain**
 Sanitary Landfill
 12310 San Mateo Road
 Half Moon Bay, CA 94019
 Phone (650) 726-1819
 Fax (650) 726-9183

☐ **Newby Island**
 Sanitary Landfill
 1601 Dixon Landing Road
 Milpitas, CA 95035
 Phone (408) 945-2800
 Fax (408) 262-2871

☐ **Forward**
 Landfill
 9999 S. Austin Road
 Manteca, CA 95336
 Phone (209) 982-4298
 Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD MAILING ADDRESS 10031 FOOTHILLS BLVD CITY, STATE, ZIP ROSEVILLE, CA 95747 PHONE 916 789 5184 CONTACT PERSON JIM DIEL SIGNATURE OF AUTHORIZED AGENT / TITLE <i>[Signature]</i> Agent for U.P. R.R. DATE 7-11-12		WASTE ACCEPTANCE NO. - 76892 REQUIRED PERSONAL PROTECTIVE EQUIPMENT ☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST SPECIAL HANDLING PROCEDURES: SWIC # 42121118254 RECEIVING FACILITY 																
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 266 and is no longer a hazardous waste as defined by 40 CFR Part 261. WASTE TYPE: ☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER ☐ SPECIAL WASTE GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404		TRANSPORTER WASTE TO TRANSPORT COMPANY ADDRESS 1234 5TH STREET CITY, STATE, ZIP 12345 67890 CA 95404 PHONE (916) 555-1234 SIGNATURE OF AUTHORIZED AGENT OR DRIVER <i>[Signature]</i> DATE 7-11-12		NOTES: 	VEHICLE LICENSE NUMBER 9392715 	TRUCK NUMBER W3 												
REMARKS I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. FACILITY TICKET NUMBER SIGNATURE OF AUTHORIZED AGENT <i>[Signature]</i> DATE 7-11-12		CUBIC YARDS 20 DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL) <table border="1"> <tr> <th>DISPOSE</th> <th>OTHER</th> </tr> <tr> <td>☒ SOIL</td> <td></td> </tr> <tr> <td>☐ CONSTRUCTION DEBRIS</td> <td></td> </tr> <tr> <td>☐ NON-FRIABLE ASBESTOS</td> <td>434.66</td> </tr> <tr> <td>☐ WOOD</td> <td></td> </tr> <tr> <td>☐ ASH</td> <td></td> </tr> <tr> <td>☐ SPECIAL OTHER</td> <td></td> </tr> </table>			DISPOSE	OTHER	☒ SOIL		☐ CONSTRUCTION DEBRIS		☐ NON-FRIABLE ASBESTOS	434.66	☐ WOOD		☐ ASH		☐ SPECIAL OTHER	
DISPOSE	OTHER																	
☒ SOIL																		
☐ CONSTRUCTION DEBRIS																		
☐ NON-FRIABLE ASBESTOS	434.66																	
☐ WOOD																		
☐ ASH																		
☐ SPECIAL OTHER																		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL - ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615966

☒ **Forward**
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

MANIFEST # 615967

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12510 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 725-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4296
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. 36862	
MAILING ADDRESS 10031 FOOTHILLS BLVD		REQUIRED PERSONAL PROTECTIVE EQUIPMENT	
CITY, STATE, ZIP ROSEVILLE, CA 95747		☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT	
PHONE 916 789-5184		☐ TY-VEK ☒ SAFETY VEST	
CONTACT PERSON JIM DIEL		SPECIAL HANDLING PROCEDURES	
SIGNATURE OF AUTHORIZED AGENT / TITLE * [Signature] Agent for U.P.R.R.		Swic # 4212118254	
DATE 7-11-12			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. Also, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			
WASTE TYPE:		RECEIVING FACILITY	
☐ DISPOSAL ☐ SLUDGE			
☐ CONSTRUCTION ☐ WOOD			
☐ DEBRIS ☒ OTHER			
☐ SPECIAL WASTE			
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404			
TRANSPORTER DENBESTE TRANSPORTATION INC. Gulf Truck		NOTES:	
ADDRESS 210 DENBESTE CT NORTH 107 Los Angeles		VEHICLE LICENSE NUMBER 9261663	
CITY, STATE, ZIP UNION, CA 95122		TRUCK NUMBER 721	
PHONE 800-828-1477			
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * [Signature]		END DUMP ☒ BOTTOM DUMP ☐ TRANSFER ☐	
DATE 7-11-12		ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☒ DRUMS ☐	
REMARKS I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 20	
		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)	
FACILITY TICKET NUMBER		DISPOSE ☒ OTHER ☐	
SIGNATURE OF AUTHORIZED AGENT * [Signature]		SOIL ☒	
DATE 7-11-12		CONSTRUCTION DEBRIS ☐	
		NON-FRIABLE ASBESTOS ☐	
		WOOD ☐	
		ASH ☐	
		SPECIAL OTHER ☐	

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615968

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12510 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR
UNION PACIFIC RAILROAD

MAILING ADDRESS
10031 FOOTHILLS BLVD

CITY, STATE, ZIP
ROSEVILLE, CA 95741

PHONE
916.789.5184

CONTACT PERSON
JIM DILL

SIGNATURE OF AUTHORIZED AGENT / TITLE

DATE

* *[Signature]* Agent for UP RR 7-11-12

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. If the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE

- ☐ DISPOSAL ☐ SLUDGE
☐ CONSTRUCTION ☐ WOOD
☐ DEBRIS ☒ OTHER
☐ SPECIAL WASTE

GENERATING FACILITY

SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404

TRANSPORTER *HAVALA TRUCKING*

DENBESTE TRANSPORTATION INC.

ADDRESS 1771 W. WESCOTT ST

810 DENBESTE ST SUITE 107 HANFORD CA

CITY, STATE, ZIP 93230

WINDSOR CA 94403

PHONE 559-583-6848

800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER

DATE

* *[Signature]* 7-11-12

WASTE ACCEPTANCE NO.

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

Swic # 4212118254

RECEIVING FACILITY

NOTES:

VEHICLE LICENSE NUMBER

TRUCK NUMBER

9DS0946

61

END DUMP

BOTTOM DUMP

TRANSFER

ROLL-OFF(S)

FLAT-BED

VAN

DRUMS

CUBIC YARDS

20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

DISPOSE

OTHER

☒ SOIL

☐ CONSTRUCTION DEBRIS

☐ NON-FRIABLE ASBESTOS

☐ WOOD

☐ ASH

☐ SPECIAL OTHER

4609.17

11/2

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT

DATE

* *[Signature]* 7-11-12

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615969

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 992-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. — 746869-4212118254																						
MAILING ADDRESS 10031 FOOTHILLS BLVD CITY, STATE, ZIP ROSEVILLE, CA 95747		REQUIRED PERSONAL PROTECTIVE EQUIPMENT ☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST																						
PHONE 916 789 5184		SPECIAL HANDLING PROCEDURES:																						
CONTACT PERSON JIM DIEL		RECEIVING FACILITY																						
SIGNATURE OF AUTHORIZED AGENT / TITLE * <i>[Signature]</i> Agent Per. U.P.R.R.		DATE 7-11-12																						
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AHA. If the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.																								
WASTE TYPE: ☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER ☐ SPECIAL WASTE																								
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404																								
TRANSPORTER DEARBORN TRANSPORTATION ADDRESS: 2444 ALPINE ST 210 DEARBORN CT SUITE 101 CITY, STATE, ZIP: SANTA ROSA, CA 95210 PHONE: 530 838 1177		NOTES: VEHICLE LICENSE NUMBER: 9E21140 TRUCK NUMBER: B-1																						
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * <i>[Signature]</i> Jose B. Jelle		DATE 7-11-12																						
END DUMP ☒ BOTTOM DUMP ☐ TRANSFER ☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS ☐																								
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 20																						
REMARKS A		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL) <table border="1"><tr><td></td><td>DISPOSE</td><td>OTHER</td></tr><tr><td>☒ SOIL</td><td>☒</td><td></td></tr><tr><td>☐ CONSTRUCTION DEBRIS</td><td></td><td></td></tr><tr><td>☐ NON-FRIABLE ASBESTOS</td><td></td><td>171.32</td></tr><tr><td>☐ WOOD</td><td></td><td></td></tr><tr><td>☐ ASH</td><td></td><td></td></tr><tr><td>☐ SPECIAL OTHER</td><td></td><td></td></tr></table>			DISPOSE	OTHER	☒ SOIL	☒		☐ CONSTRUCTION DEBRIS			☐ NON-FRIABLE ASBESTOS		171.32	☐ WOOD			☐ ASH			☐ SPECIAL OTHER		
	DISPOSE	OTHER																						
☒ SOIL	☒																							
☐ CONSTRUCTION DEBRIS																								
☐ NON-FRIABLE ASBESTOS		171.32																						
☐ WOOD																								
☐ ASH																								
☐ SPECIAL OTHER																								
FACILITY TICKET NUMBER																								
SIGNATURE OF AUTHORIZED AGENT * <i>[Signature]</i>		DATE 7-11-12																						

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST #

615970

☐ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1919
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2600
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. -423118254	
MAILING ADDRESS 10031 FOOTHILLS BLVD		REQUIRED PERSONAL PROTECTIVE EQUIPMENT	
CITY, STATE, ZIP ROSEVILLE, CA 95747		☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT	
PHONE 916.789.5184		☐ TY-VEK ☒ SAFETY VEST	
CONTACT PERSON JIM DIEL		SPECIAL HANDLING PROCEDURES:	
SIGNATURE OF AUTHORIZED AGENT / TITLE * <i>Jim Diel</i>		RECEIVING FACILITY	
DATE 7-11-12			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or 105.22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			
WASTE TYPE:			
☐ DISPOSAL ☐ SLUDGE			
☐ CONSTRUCTION ☐ WOOD			
☐ DEBRIS ☒ OTHER			
☐ SPECIAL WASTE			
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404			
TRANSPORTER DENBESTE TRANSPORTATION INC. WAM		NOTES:	
ADDRESS 810 DENBESTE CT. SUITE 107		VEHICLE LICENSE NUMBER 9B34792	
CITY, STATE, ZIP WINDSOR, CA 95492		TRUCK NUMBER W2	
PHONE 800-838-1477 209-6785391			
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * <i>Vicki Coles</i>		END DUMP ☒ BOTTOM DUMP ☐ TRANSFER ☐	
DATE 7-11-12		ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS ☐	
		903.117	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 20	
REMARKS		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)	
FACILITY TICKET NUMBER		DISPOSE ☒ OTHER ☐	
SIGNATURE OF AUTHORIZED AGENT * <i>[Signature]</i>		☒ SOIL ☐ CONSTRUCTION DEBRIS	
DATE 7-11-12		☐ NON-FRIABLE ASBESTOS ☐ WOOD	
		☐ ASH ☐ SPECIAL OTHER	

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615977

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1801 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR	
UNION PACIFIC RAILROAD	
MAILING ADDRESS	
10031 FOOTHILLS BLVD	
CITY, STATE, ZIP	
ROSEVILLE, CA 95747	
PHONE	
916 789 5184	
CONTACT PERSON	
JIM DIEL	
SIGNATURE OF AUTHORIZED AGENT / TITLE	DATE
<i>* Jim Diel Agent for U.P.R.R.</i>	7-11-12

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly identified, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:	
☐ DISPOSAL	☐ SLUDGE
☐ CONSTRUCTION	☐ WOOD
☐ DEBRIS	☒ OTHER
☐ SPECIAL WASTE	
GENERATING FACILITY	
SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404	

TRANSPORTER	
L & H CONSULTING	
DENBESTER TRANSPORTATION INC.	
ADDRESS	
2415 CHAIL ST	
940 DENBESTER CT, SUITE 102	
CITY, STATE, ZIP	
SANTA ROSA, CA 95404	
PHONE	
905-647-5775	
SIGNATURE OF AUTHORIZED AGENT OR DRIVER	
DATE	
<i>* [Signature]</i>	7/11/12

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS	
FACILITY TICKET NUMBER	
SIGNATURE OF AUTHORIZED AGENT	DATE
<i>* [Signature]</i>	7-11-12

WASTE ACCEPTANCE NO.

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

NOTES:	VEHICLE LICENSE NUMBER	TRUCK NUMBER
	9024975	703
END DUMP	BOTTOM DUMP	TRANSFER
☒	☐	☐
ROLL-OFF(S)	FLAT-BED	VAN
☐	☐	☐

CUBIC YARDS		
20		
DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)		
	DISPOSE	OTHER
☒ SOIL	☒	
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615978

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2600
Fax (408) 282-2871

☐ Forward
Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR UNION PACIFIC RAILROAD		WASTE ACCEPTANCE NO. - 4212118354	
MAILING ADDRESS 10031 FOOTHILLS BLVD		REQUIRED PERSONAL PROTECTIVE EQUIPMENT	
CITY, STATE, ZIP ROSEVILLE, CA 95747		☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT	
PHONE 916.789.5184		☐ TY-VEK ☒ SAFETY VEST	
CONTACT PERSON JIM DIEL		SPECIAL HANDLING PROCEDURES:	
SIGNATURE OF AUTHORIZED AGENT / TITLE * [Signature] Agent for UPRR		DATE 7-11-12	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. Also, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.			
WASTE TYPE:		RECEIVING FACILITY:	
☐ DISPOSAL ☐ SLUDGE ☐ CONSTRUCTION ☐ WOOD ☐ DEBRIS ☒ OTHER ☐ SPECIAL WASTE			
GENERATING FACILITY SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404			
TRANSPORTER DENBESTE TRANSPORTATION INC.		NOTES:	
ADDRESS 810 DENBESTE CT. SUITE 107		VEHICLE LICENSE NUMBER 9D07540	
CITY, STATE, ZIP WINDSOR, CA 95407		TRUCK NUMBER 69	
PHONE 800.838.1477			
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * [Signature] Daniel Gomer		END DUMP ☒ BOTTOM DUMP ☐ TRANSFER ☐	
DATE 7/11/12		ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS ☐	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		CUBIC YARDS 22	
REMARKS		DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)	
FACILITY TICKET NUMBER		☒ SOIL ☐ DISPOSE ☐ OTHER	
SIGNATURE OF AUTHORIZED AGENT * [Signature]		☐ CONSTRUCTION DEBRIS	
DATE 7-11-12		☐ NON-FRIABLE ASBESTOS	
		☐ WOOD	
		☐ ASH	
		☐ SPECIAL OTHER	

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615979

☒ Keller Canyon
Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte
Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain
Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island
Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ Forward
Landfill
9999 S. Austin Road
Maricopa, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR
UNION PACIFIC RAILROAD

MAILING ADDRESS
10031 FOOTHILLS BLVD
CITY, STATE, ZIP
ROSEVILLE, CA 95747

PHONE
916 789 5184
CONTACT PERSON
JIM DIEL

SIGNATURE OF AUTHORIZED AGENT / TITLE
DATE

* *[Signature]*

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
☐ DISPOSAL
☐ CONSTRUCTION
☐ DEBRIS
☐ SPECIAL WASTE
☐ SLUDGE
☐ WOOD
☒ OTHER

GENERATING FACILITY
SMART SITE, 2 FOURTH STREET, SANTA ROSA, CA 95404

TRANSPORTER
DENBESTE TRANSPORTATION INC
ADDRESS
810 DENBESTE CT, SUITE 107
CITY, STATE, ZIP
WOODBURY, CA 95492
PHONE
800 838 1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER
DATE

* *[Signature]* 7/11/12

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT
DATE

* *[Signature]* 7-11-12

WASTE ACCEPTANCE NO.

4212746860
110254

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

NOTES: VEHICLE LICENSE NUMBER TRUCK NUMBER

9DC64342 68

END DUMP BOTTOM DUMP TRANSFER
☒ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS

CUBIC YARDS

210

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

DISPOSE OTHER

☒ SOIL
☐ CONSTRUCTION DEBRIS
☐ NON-FRIABLE ASBESTOS
☐ WOOD
☐ ASH
☐ SPECIAL OTHER

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

TRANSPORTER COPY

MANIFEST # 615980