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To: Mr. Steven Plunkett Alameda County Environmental Health Services 1131 Harbor Bay Parkway Alameda, CA 94702-1359 Transmittal

From:Joseph CottonDate:October, 9, 2008CODENT ETN

ACDEH File No.: RO0002933

Copies	Description	Sent by:
2	Groundwater Well Installation & Initial Quarterly Groundwater Monitoring Report for 1409 – 1417 12 th Street, Oakland, CA,	🛛 Regular Mail
	1 Electronic Copy and 1 Hardcopy	☐ FedEx ☐ Courier ⊠ Other

Mr. Plunkett,

Attached is the Groundwater Well Installation & Initial Quarterly Groundwater Monitoring Report for 1409-1417 12th Street, Oakland, California. Impact Environmental Services is pleased to submit this report on behalf of the property owner, Mrs. Shirley Thompson.

Should you have questions, please contact me at (510) 703-5420.

Sincerely,

Joseph A. Cotton PG Principal Geologist

Copies	Name & Address	Sent by:
2	Mrs. Shirley Thompson 1155 Hopkins Street Berkeley CA 94801	☐ Regular Mail ☐ FedEx ☐ Courier ⊠ Other

GROUNDWATER WELL INSTALLATION & INITIAL GROUNDWATER MONITORING EPORT 1409- 1417 12TH STREET OAKLAND, CALIFORNIA

Prepared for:

Mrs. Shirley Thompson 1155 Hopkins Street Berkeley, CA 94801

Prepared by:

Impact Environmental Services Inc. 39120 Argonaut Way, Suite 223 Fremont, California 94538

Impact Environmental Services

Joseph A. Cotton, R.G., 7378 Principal Geologist

October 2008



Impact Environmental Services



Impact Environmental Services 39120 Argonaut Way, Suite 223 Fremont, CA 94538 Telephone: (510) 703-5420 Fax: (510) 791-0271

GROUNDWATER WELL INSTALLATION & INITIAL GROUNDWATER MONITORING REPORT 1409-1417 12TH STREET OAKLAND CALIFORNIA ACEH File No. RO2933

On behalf of Mrs. Shirley E. Thompson, Impact Environmental Services (IMPACT) is presenting this Well Installation and Initial Groundwater Monitoring Report for 1409-1417 12th Street in Oakland, California (Figure 1). This report describes procedures used to install eight groundwater monitoring wells and three groundwater extraction/treatment wells. The report also presents the results of the initial groundwater monitoring and sampling event at the property. In addition, this document presents site background information and a summary of environmental site assessment activities conducted at the site to date. This document is being prepared at the request of Alameda County Environmental Health (ACEH) for a remediation work plan¹ for the unauthorized release of fuel at the subject property.

The wells will accommodate groundwater monitoring and remediation of petroleum hydrocarbons in groundwater. Wells will also be used to further evaluate the spatial extent of petroleum hydrocarbons in groundwater and to monitor plume migration at the subject property.

SITE CONTACT INFORMATION

The site address and contact information is as follows:

Site Address: 1409-1417 12th Street Oakland, CA APN 004-063-06 **Contact Information:** Mrs. Shirley Thompson

Edward C. and Shirley E. Thompson Trust 1155 Hopkins Street, Berkeley, CA 94702-1359

¹ Alameda County Environmental Health Services Letter_Fuel Leak Case No. RO0002933 Global ID T0600158621, Thompson Property, 1409-1417 12th Street, Oakland, CA 94607-2003, dated July 31, 2008.

SITE BACKGROUND

The Subject Property is located in a predominately residential area in the western section of the city of Oakland, Alameda County, California (Figure 1). The subject Property comprises the Alameda County assessor parcel 004-063-06 and is bordered to the north by 12th Street and residential development, to the south by a vacant lot, on the east by Mandela Parkway, and to the west by a residential development (Figure 2). The property is located approximately 1-mile southeast of San Francisco Bay and 1-mile north of Oakland Inner Harbor. The elevation of the site is approximately 17 feet above mean sea level (USGS West Oakland 7.5 Minute Quadrangle). Portions of the site are paved with asphalt and the remainder is covered by grass and soil. Several mounds of soil up to 18-inches high are present in the southeast portion of the subject property.

Historical records indicate that the property was occupied by a service station from circa 1957 to the circa 1969. The subject property was either vacant or occupied by residential dwellings from at least 1902 to circa 1956. Sanborn maps from 1957, 1958, 1961 and 1967 appear to show three underground fuel storage tanks (USTs) located in the southeast corner of the service station. The 1961 Sanborn map appears to show a fourth UST or AST along the west property boundary. According to a previous report, a magnetometer survey performed at the subject property (circa 1999) revealed no magnetic anomalies indicative of buried underground storage tanks. However, communications with the Oakland Fire Department Hazardous Materials Division, confirmed that no records exist of UST removal from the Subject Property².

Geologic Setting

The Subject Property is located in the East Bay Plain of the San Francisco Bay Area. This region is dominated by northwest trending topography enclosed in the Coast Range Province of California. The site is located in the "Merritt Sand Outcrop" groundwater subarea, which has a maximum thickness of 65 feet, and the local gradient is directed toward the west to southwest³. Based on information provided by a previous investigation, soil beneath the property consists primarily of silty-sand to at least 20 feet bgs. Groundwater is first encountered between 10 and 13 feet below ground surface (bgs) and stabilizes at approximately 11 feet bgs.

² Verbal Communication, LeRoy Griffin, Oakland Fire Department Hazardous Materials Division, May 25, 2006.

³ Hickenbottom and Muir, *Geohydrology and Groundwater Quality Overview of the East Bay Plain Area, Alameda County, California, 205 (J) Report, 1988.*

Previous Phased Environmental Investigations

In August 1999, East Bay Asian Local Development Corporation (EBALDC) contracted Blymer Engineers of Alameda, California to conduct a subsurface investigation at the subject property⁴. EBALDC was considering purchasing the subject property from Mrs. Thompson for infill development of residential housing units.

The investigation consisted of the installation of five on-site exploratory borings (B1 through B5) and the collection of soil and grab groundwater samples. All soil and grab groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl *tert*-butyl ether (MTBE) by EPA Method 8020. In addition, all of the soil samples and three groundwater samples (GW-3, GW-4, and GW-5) were analyzed for total lead using EPA Methods 6010 and 239.2. Grab groundwater sample GW-5 was also analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260.

TPHg at concentrations up to 1,500 milligrams per kilogram (mg/kg) and BTEX compounds at concentrations up to 120 mg/kg were detected in soil samples collected from the apparent capillary fringe in borings B-3 and B-5. The highest concentrations were detected just above first-encountered groundwater at a depth of 10.5 to 11.5 feet bgs. Lead was detected in all soil samples (with the exception of sample B1-5) at concentrations indicative of background levels. TPHg at concentrations up to 110,000 micrograms per liter (μ g/L), benzene up to 5,800 μ g/L, toluene up to 16,000 μ g/L, ethylbenzene up to 31,000 μ g/L, and total xylenes up to 18,000 μ g/L were detected in groundwater samples GW-2 and GW-3. The laboratory noted the presence of a "lighter than water immiscible sheen" in groundwater samples GW-3 and GW-5. Lead was not detected in any of the groundwater samples above the method reporting limit of 0.005 milligrams per liter (mg/L). The following VOCs were detected in groundwater sample GW-5: benzene (5,400 µg/L), 1,2-dichloroethane (1,2-DCA, 500 µg/L), ethylbenzene (3,800 µg/L), n-propyl benzene (550 µg/L), toluene (18,000 µg/L), 1,2,4-trimethylbenzene (4,900 µg/L), 1,3,5trimethylbenzene (1,100 μ g/L), and total xylenes (23,000 μ g/L). The detected concentrations of TPHg and BTEX in groundwater samples from borings B2, B3, and B5 exceed respective San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels

⁴ Blymer Engineers, Inc., Subsurface Investigation Vacant Parcel 1409-1417 12th Street, Oakland, California, August 25, 1999.

(ESLs)⁵ for commercial and residential land use scenarios. The concentration of 1, 2-DCA detected in groundwater sample GW-5 also exceeds the ESL for that compound.

In July, 2006, Impact conducted a Phase I Environmental Site Assessment (Phase I) for the Subject Property⁶. The scope of the Phase I included a reconnaissance of the site and vicinity to assess current land use, review of historical records to establish past land use and to help evaluate the likelihood that past land use resulted in subsurface contamination. Geologic maps and environmental reports were also reviewed to evaluate general geologic and hydrogeologic conditions in the area including the presence of groundwater and regional hydrogeologic features dictating groundwater flow direction. Government agency files were reviewed for information regarding subsurface contamination and use, storage and disposal of hazardous materials at the site and vicinity.

The subject property was not on any government lists. However, the Phase I concluded that the subject property was occupied by a gasoline service station from circa 1957 to circa 1969. Based on review of the Blymer report, previous activities at the site appear to have resulted in hydrocarbon contamination of soils and groundwater at the property.

In May 2007, Impact conducted site characterization study to further evaluate the presence of petroleum hydrocarbons and VOCs in soil, soil-vapor, and groundwater at the subject property. Thirty-six discrete soil samples and nine grab groundwater samples from nine exploratory borings (B-6, B-7, and B-9 through B-15) at the Subject Property. In addition, nine soil-vapor samples were collected from property⁷. Soil and grab groundwater samples were analyzed for TPH as diesel (TPHd) and motor oil (TPHmo) by EPA Method 8015, and TPHg, BTEX, MTBE, and other fuel oxygenates by EPA Method 8260. Soil-vapor samples were analyzed for TPHg (by modified EPA Method TO-3) and VOCs (by EPA Method TO-15).

TPHg was detected in three of the thirty-six soil samples at concentrations ranging from 32 mg/kg and 20,000 mg/kg. Soil samples with TPHg detections were collected from boring B-9 at depths of 10, 12, and 20 feet bgs. Two of these samples (B-9:10' [4,600 mg/kg] and B-9:12'

⁵ Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, San Francisco Bay Regional Water Quality Control Board, November 2007.

⁶ Impact Environmental Services, *Phase I Environmental Site Assessment 1409-1417 12th Street Oakland California*, August 25, 2006 (revised December 13, 2006).

⁷ Impact Environmental Services, Site Characterization Report 1409-1417 12th Street Oakland California, June 5, 2007.

[20,000 mg/kg]) contained concentrations of TPHg that exceed the ESL of 100 mg/kg. TPHd was not detected at or above method detection limits (MDLs) in soil samples. TPHmo was only detected in one soil sample (B-10:5'), at a concentration significantly below the residential ESL of 500 mg/kg. BTEX were only detected in soil samples retrieved from exploratory boring B-9. Benzene was detected at 830 µg/kg in soil sample B-9:20'. The concentration of benzene in this sample is above the residential ESL of 44 µg/kg. Toluene was detected at 210,000 µg/kg and 320 µg/kg in samples B-9:12' and B-9:20', respectively. The concentration of toluene in sample B-9:12' exceeds to residential ESL of 2,900 µg/kg. Ethylbenzene was detected at concentrations of 220,000 µg/kg and 440 µg/kg in samples B-9:12' and B-9:20', respectively. The concentration of ethyl benzene in sample B-9:12' exceeds to residential ESL of 2,900 µg/kg. Total xylenes were detected in soil samples B-9:10' (88,000 µg/kg), B-9:12' (1,300,000 µg/kg), and B-9:20' (1,600 µg/kg). The concentrations of total xylenes in samples B-9:10' and B-9:12' are above the residential ESL of 2,300 µg/kg. Fuel oxygenates were not detected at or above MDLs in soil samples collected from the site.

The grab groundwater sample collected from boring B-9 contained $52,000\mu g/L$ TPHg, significantly above the TPHg ESL of $100\mu g/L$. The grab groundwater sample collected from boring B-7 contained TPHd at $59\mu g/L$. The grab groundwater sample collected from boring B-6 contained TPHmo at 150 $\mu g/L$, which exceeds the ESL of $100 \mu g/L$. BTEX were not detected at or above MDLs in grab groundwater samples collected from the site, with the exception of the following samples. The groundwater sample collected from boring B-9 contained 8,700 $\mu g/L$ of benzene, 2,200 $\mu g/L$ toluene, 2,000 $\mu g/L$ mg/kg ethylbenzene, and 7,200 $\mu g/L$ total xylenes. Fuel oxygenates (including MTBE) were not detected at or above MDLs in grab groundwater samples collected from boring B-9. The concentration of 1, 2-DCA in this sample exceeded the residential ESL of 0.5 $\mu g/L$.

Nine soil-vapor samples (SV-1 through SV-9) were collected from the subject property. The soil-vapor sample collected from SV-6 (near boring B-9) contained concentrations of TPHg, benzene, and vinyl chloride that exceed residential ESLs for shallow soil gas. TPHg was detected in sample SV-6 at a concentration of 52,000 ug/m³, which is twice the ESL of 26,000 ug/m³. The soil-vapor sample from SV-6 also contained benzene and vinyl chloride at concentrations of 1,200 ug/m³ and 260 ug/m³, which is significantly above their respective ESLs

of 32 ug/m³ and 85 ug/m³. The remaining soil-vapor samples collected as part of this investigation did not contain constituents of concern above ESLs.

The investigation concluded that soil, soil-vapor, and grab groundwater samples collected from boring B-9 contained gasoline-range hydrocarbons, BTEX, and 1, 2-dichloroethane at concentrations that present a potential risk to human health in a residential land-use scenario. The groundwater sample collected from boring B-6 contained motor-oil range hydrocarbons above residential ESLs. Groundwater quality data from the exploratory borings suggest that petroleum contamination in groundwater was isolated in a hot-spot in the northern portion of the property. This hot-spot are located in the vicinity of borings B-2, B-3, B-5 (advanced during the Blymer investigation), and B-9. Free-product (gasoline) was identified in soils just above first encountered groundwater in boring B-9. Grab groundwater samples collected from exploratory borings B-2, B-3, and B-5, and B-9 contained TPHg at concentrations indicative of free-phase product (i.e., greater than 5 milligrams per liter [mg/L], which is the assumed solubility limit of TPH in water)^{8,9}.

CONFIRMATION EXPLORATORY BORINGS

On March 6 and 7, 2008, Woodward Drilling Inc. (Woodward) of Rio Vista, California installed two "confirmation" exploratory borings (B-16 and B-17) to substantiate historical soil and groundwater results from Blymer borings B-2 and B-3. The locations of the confirmation exploratory borings are presented on Figure 2. The absence of detectable concentrations of petroleum hydrocarbons in soil and groundwater samples collected from borings near B-2 and B-3 produced some uncertainty (by ACEH and IMPACT) regarding the actual presence of petroleum hydrocarbons in these two areas. Exploratory boring B-16 was advanced near former boring B-3 and boring B-17 was advanced in proximity to boring B-2. The exploratory borings were also used to determine whether installation of groundwater extraction/treatment would be

⁸ Total Petroleum Hydrocarbon Criteria Working Group Series Volume 3, Selection of Representative TPH Fractions Based on Fate and Transport Considerations, July 1997

⁹ Agency for Toxic Substances and Disease Registry, *Toxicological Profile for Fuel Oils*, 1995.

appropriate in these areas. Boring permits were obtained from Alameda County Public Works Agency (ACPWA) and are presented in Appendix A.

Confirmation Exploratory Boring Soil and Grab Groundwater Sample Collection

Continuous soil samples were collected from confirmation exploratory borings for lithologic identification. In general, exploratory boring soil samples for chemical analysis were collected at five-foot intervals from depths ranging between 5 and 25 feet bgs. Samples were also collected from soils with 1) staining, odor or elevated OVM readings, 2) in the apparent capillary fringe, 3) where groundwater is first encountered, 4) at distinct changes in lithology, and 5) at the total depth of the exploratory soil boring. Sample collection depths are shown on Table 1.

Soil samples were collected by driving a 2-inch diameter, California Modified sampler through and in advance of hollow stem augers (HSA). The sampler was driven with a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler 18 (or 24) inches were recorded as the penetration resistance (blows/foot) on the boring logs. Soil samples were collected in 2-inch diameter, 6-inch long, brass liners. Soil samples collected for chemical analysis were filled to the fullest extent possible to reduce the potential for loss of volatiles and sealed with Teflon-lined plastic caps, labeled and placed in a cooled container.

Soils were logged by Professional Geologist according to the Unified Soil Classification System (USCS). Boring logs are contained in Appendix B. Periodic soil samples were screened in the field using an organic vapor meter (OVM) and visual and olfactory methods to evaluate the presence of hydrocarbons in the soil.

Grab groundwater samples were collected from each boring. Borings were advanced into the groundwater-bearing zone and the augers pulled back two to three feet to allow groundwater to enter the borehole. Grab groundwater samples were collected through the hollow portion of the augers using new, disposable Teflon[®] bailers. Grab groundwater samples were placed in laboratory-supplied containers, labeled, and preserved on ice.

Each boring was grouted to the ground surface with bentonite-cement slurry via tremie pipe. Chain of custody documentation accompanied boring soil and grab groundwater samples to the laboratory for analysis. All down-hole equipment was steam-cleaned before use and between borings. Soil cuttings and decontamination rinsate were placed in 55-gallon drums for proper disposal.

Soil and Grab Groundwater Sample Analysis

Confirmation boring soil and grab groundwater samples were analyzed at Torrent Laboratory Inc. (Torrent Laboratory) of Milpitas, California. Torrent is a state-certified laboratory. Soil samples from confirmation borings were analyzed for constituents of concern (COCs) including TPHd, TPHmo by EPA Method 8015, and TPHg, BTEX, and fuel oxygenates using EPA Method 8260. Grab groundwater samples were analyzed for TPHd and TPHmo by EPA Method 8015, and TPHg, BTEX, and TPHg, BTEX, and MTBE using EPA Method 8260.

Confirmation Boring Soil and Grab Groundwater Sample Results

Confirmation exploratory boring soil sample results are summarized in Table 1 and the certified laboratory analytical reports (LARs) are presented in Appendix C. Figure 3 presents data on TPHg detected in confirmation boring soil samples.

Constituents of concern were detected in six of seven soil samples collected from confirmation boring B-16. However only two of the seven samples, B-6:8' and B-6:15' contained significant concentrations of COCs. The soil sample collected from 8-feet bgs from boring B-16 contained 4,700 mg/kg TPHg, 240 mg/kg TPHd, 13 mg/kg benzene, 180 mg/kg toluene, 110 mg/kg ethylbenzene, and 520 mg/kg total xylenes. The grab groundwater sample collected from boring B-16 contained B-16 contained 130 μ g/L TPHg, 6,820 μ g/L benzene, 9,410 μ g/L toluene, 3,360 μ g/L ethylbenzene, and 17,400 μ g/L total xylenes. The detections of petroleum hydrocarbons in soil and grab groundwater samples collected from boring B-16 supports Blymer's data from boring B-3) that indicates that petroleum hydrocarbons are present in this area.

TPHmo was the lonely COC detected in soil samples collected from confirmation boring B-17. Both detections of TPHmo in soil samples were at low concentrations and not significant. The grab groundwater sample collected from boring B-17 contained 2 μ g/L TPHmo, 0.930 μ g/L toluene, 0.500 μ g/L ethylbenzene, and 1.56 μ g/L total xylenes. All COC detected in the grab groundwater sample were below their respective ESLs and contradict Blymer data (from B-2) that suggests significant petroleum hydrocarbons are present in soil and groundwater in this area.

GROUNDWATER MONITORING AND EXTRACTION WELL INSTALLATION

In March and April 2008, groundwater monitoring wells MW-1 through MW-8 and groundwater extraction wells GW-1 through GW-3 were installed at the subject property by Woodward. The location of groundwater wells are shown on Figures 2. Well installation permits obtained from ACPWA are presented in Appendix A. The wells were installed to support groundwater monitoring and remediation activities and to help define the spatial extent of petroleum hydrocarbons and related compounds in groundwater at the property. Wells were also installed at the site to allow periodic groundwater monitoring and to evaluate plume migration. Groundwater wells were installed under the direction of GeoMatrix and IMPACT professional geologists.

Rationale for Groundwater Monitoring and Extraction Well Locations

Groundwater monitoring well MW-1, located along the southern property boundary, was installed to monitor groundwater quality at the southern property boundary. Groundwater monitoring wells MW-2 and MW-5 were placed along the western property boundary to help define and monitor the western extent of petroleum hydrocarbons identified in groundwater samples collected from borings B-5 and B-9. MW-2 and MW-5 also function as groundwater monitoring points of compliance for potential sensitive receptors at the adjacent residence located west of the subject property. Well MW-3 was installed to help define and monitor the southern extent of petroleum hydrocarbons indentified in samples collected from borings B-5 and B-9. Well MW-4 was installed along the eastern property boundary to help define and monitor the eastern extent of petroleum hydrocarbons identified in groundwater samples collected from borings B-3 and B-16. Groundwater monitoring wells MW-6 and MW-7 were placed along the northern property boundary to monitor the northern extent of petroleum hydrocarbons identified in groundwater samples collected from borings B-3 and B-9. Wells MW-6 and MW-7 also function as baseline groundwater monitoring wells to evaluate the quality of groundwater entering the site from the north. Groundwater monitoring well MW-8 is located at the source area near former boring B-9 and well GW-1. MW-8 is screened in a deeper waterbearing zone or at the lower portion of the shallow water bearing unit (assuming a hydraulic connection) and helps evaluate the vertical extent of petroleum hydrocarbons in groundwater beneath the source area. Groundwater extraction/treatment wells GW-1, GW-2, and GW-3 were installed to monitor groundwater in the source area and the support groundwater remediation.

Mr. Steven Plunkett October 9, 2008 Page 10

Well Boring Soil Sample Collection

Soil samples were collected from various depths ranging from 5 approximately five feet bgs to 27 feet bgs for lithologic identification. Sample collection depths are shown on Table 1. During drilling of the well boreholes, soil samples for chemical analysis were collected from soils with 1) staining, odor or elevated OVM readings, 2) within the apparent capillary fringe, 3) where groundwater is first encountered, 4) at distinct changes in lithology, and 5) at the total depth of soil boring. Where possible, soil samples were not collected from well boreholes near previous exploratory boring to reduce collection and analysis of redundant soil samples. As a result, soil samples were not collected from well borings MW-3 and MW-7 were inadvertently not submitted for analysis. Well borehole soil sample collections depths are presented in Table 1.

Soil samples were collected from well boreholes by driving a 2-inch diameter, California Modified sampler through and in advance of the HSAs. The sampler was driven with a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler 18 or 24 inches were recorded as the penetration resistance (blows/foot) on the boring logs. Soil samples were collected in 2-inch diameter, 6-inch long, brass liners. Soil samples collected for chemical analysis were filled to the fullest extent possible to reduce the potential for loss of volatiles and sealed with Teflon-lined plastic caps, labeled and placed in a cooled container.

Soils were logged under the direction of a registered Professional Geologist in accordance with the Unified Soil Classification System (USCS). Periodic soil samples were screened in the field using an organic vapor meter (OVM) and visual and olfactory methods to evaluate the presence of hydrocarbons in the soil. All down-hole equipment was steam-cleaned before use and between borings. Soil cuttings and decontamination rinsate were placed in 55-gallon drums for proper disposal.

Groundwater Well Installation

In March and April, 2008, Woodward installed seven shallow groundwater monitoring, one deeper groundwater monitoring well (MW-8), and three groundwater extraction/treatment wells (GW-1 through GW-3). The wells were installed using a truck-mounted drill-rig equipped with HSAs. Shallow groundwater monitoring wells (MW-1 through MW-7) were completed to a depth of approximately 14 feet bgs and groundwater extraction wells (GW-1 and GW-3) were installed to depths between 17 and 18 feet bgs. Well MW-8 was installed to a depth of 27 feet bgs within a conductor casing set at 19 feet bgs.

Groundwater monitoring wells were constructed using 2-inch-diameter, flush-threaded, Schedule 40 PVC casing, with a 0.010-inch slotted well screen surrounded by a filter pack of #2/12 filter sand. Filter pack material was installed from the bottom of the well to approximately 1-foot above the screened section. Groundwater extraction wells were constructed within augers using 4-inch-diameter, flush-threaded, Schedule 40 polyvinyl chloride (PVC) casing. Screened sections for extraction wells consisted of 0.010-inch slotted PVC with a filter pack of Lonestar #2/12 sand. A three-foot section of blank 4-inch PVC sump was placed at the bottom of the screened section of the extraction wells to accommodate a pump should groundwater pump and treat be employed at the site. Approximately 1 foot of bentonite pellets were placed above the well sand pack. A neat cement sanitary seal was placed above the bentonite to within 6-inches of the ground surface.

The wellhead was surrounded by a watertight vault encased in a concrete platform raised approximately 3-inches above grade. The well casing was capped with a watertight, locking well cap. Well construction details are presented in Table 2 and well boring logs are included in Appendix B.

Well Development and Surveying

Monitoring wells were developed following placement of filter pack material during well construction. On April 4 through April 6, 2008 the wells were develop further developed using the surge block and purge method. The wells were developed until the water was relatively free of sediment. Purge water generated during well development was stored in 55-gallon drums pending disposal. A licensed surveyor surveyed the top-of-casing elevation of the wells to the nearest 0.01-foot relative to on North American Vertical Datum 1988 (NAVD88). Groundwater well locations were surveyed for horizontal control consistent with AB2886. Well survey data and well development data sheets are presented in Appendix D.

Well Boring Soil Sample Analysis

Well boring soil samples were analyzed by Torrent Laboratory. Soil samples from well borings were analyzed for constituents of concern COCs including TPHd and TPHmo by EPA Method 8015, and TPHg, BTEX, and fuel oxygenates using EPA Method 8260.

Well Boring Soil Sample Results

Soil samples collected from well borings were submitted to Torrent Laboratory for analysis by TPHg, TPHd, TPHmo, BTEX, and fuel oxygenates. Soil samples were collected from well borings to further evaluate soil quality at the subject property. Soil sample results are summarized in Table 1 and LARs are presented in Appendix C. Figure 3 presents data on TPHg detected in well bore soil samples.

Twenty-one soil samples were collected during installation of well borings. Soil samples were collected to further evaluate the presence of petroleum hydrocarbons in soil at the site. COCs were detected in six soil samples which were all from wells MW-1 and MW-8. However, significant concentrations of COCs were only detected in soil samples collected from well boring MW-8. Sample MW-8:5' contained 333 mg/kg TPHg. Sample MW-8:11' contained 0.76 mg/kg benzene. TPHg was detected at 138 mg/kg in soil sample MW-8:16' and at 107 mg/kg in soil sample MW-8:20.5'.

INITIAL QUARTERLY GROUNDWATER MONITORING EVENT

On April 30, 2008, Blaine Technical Services (Blaine) of Santa Clara, California conducted the initial quarterly groundwater monitoring at the subject property. Groundwater samples were collected from groundwater monitoring wells MW-1 through MW-8 and groundwater extraction wells GW-1 through GW-3. Blaine also measured depth-to-water (DTW) in all wells before collecting groundwater samples. DTW measurements are presented in Table 3. A groundwater contour map calculated from DTW measurements is presented as Figure 4.

Groundwater samples were collected from groundwater monitoring and extraction/treatment wells in accordance with standard industry practices. Wells were purged of at least three casing volumes using a disposable bailer or a suction pump. During the purging of each well, field parameters (temperature, conductivity, pH, dissolved oxygen, and turbidity) were monitored and recorded on well monitoring data sheets presented in Appendix E. Each well was purged until temperature, conductivity, and pH stabilized. Samples were collected using a disposable bailer, placed in laboratory-supplied containers, and properly preserved in an ice cooled container. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory. Purge water was contained in a 55-gallon drum, which was left at the subject site pending disposal in accordance with groundwater analytical results. Groundwater

samples were submitted to Torrent Laboratory and analyzed for TPHd and TPHmo by EPA Method 8015, and TPHg, BTEX, and MTBE using EPA Method 8260.

Groundwater Sample Results

Groundwater sample results for the initial quarterly groundwater monitoring event (April 30, 2008) are summarized in Table 4. LARs for this groundwater monitoring event are presented in Appendix C. Maps showing the distribution of TPHg and benzene are presented in Figure 5 and Figure 6, respectively. CARs are presented in Appendix C.

Groundwater samples collected from wells MW-1 and MW-6 contained TPHg at 54 μ g/L and 53 μ g/L, respectively. Groundwater from monitoring well MW-8 was found to contain 1,049 μ g/L TPHg, 161 μ g/L TPHd, 13.9 μ g/L benzene, 12.4 μ g/L toluene, 9.76 μ g/L ethylbenzene, and 160 μ g/L total xylenes. The groundwater sample from well GW-1 contained 37,000 μ g/L TPHg, 7.25 μ g/L TPHd, 2,400 μ g/L benzene, 769 μ g/L toluene, 378 μ g/L ethylbenzene, and 3,450 μ g/L total xylenes. TPHg was also detected at a concentration of 74 μ g/L in groundwater collected from well GW-2. The groundwater sample collected from well GW-3 was found to contain 250 μ g/L TPHg, 46.5 μ g/L benzene, 1.36 μ g/L toluene, 2.16 μ g/L ethylbenzene, and 6.27 μ g/L total xylenes. COCs were not detected above MDLs in the remaining groundwater samples.

Groundwater Elevations and Gradient

DTW measurements were recorded on Well Gauging Data Sheets presented in Appendix E. Groundwater elevation data for wells are presented on Table 3. A groundwater contour map calculated from DTW measurements (collected from the site on April 30, 2008) is presented as Figure 4. Groundwater elevations were calculated by subtracting the measured depth to water from the surveyed top of well casings elevations.

Groundwater elevation contour map indicates that the direction of groundwater flow and gradient are highly irregular. The map indicates that shallow groundwater flow in the northwest corner of the site is generally to the south-southwest at an approximate gradient of 0.0068. In the northeast portion of the site groundwater flow is southeast at an approximate gradient of 0.0032. Groundwater flow in the southern portions of the property is to the north-northeast at an approximate gradient of 0.0016. A relatively flat subdued gradient and groundwater sink (or low) is present in much of the center of the property.

QUALITY CONTROL RESULTS

Quality control (QC) sample results and laboratory QC data for soil and groundwater samples were evaluated to assess the acceptability of the analytical data. Laboratory QC results are included with the LARs presented in Appendix C. All laboratory analyses occurred within EPA recommended sample holding times and all sample containers were received in acceptable condition by the laboratory. Based on the laboratory QA/QC summaries, all method blanks, laboratory control samples (LCS), matrix spikes (MS), and matrix spike duplicates (MSD) were within laboratory control limits.

DISCUSSION OF RESULTS

The results of soil and groundwater samples were compared to the RWQCB ESLs for a residential land-use where groundwater is a source of drinking water. The RWQCB developed ESLs for commercial/industrial and residential land-use scenarios to provide a measure of whether additional investigation, remedial action, or a more detailed risk assessment should be pursued.

Soil samples collected from confirmation exploratory boring B-16 (near well GW-3) and from borings for well MW-8 were found to contain COCs that were above respective ESLs. Soil samples MW-8:6.5', MW-8:16', MW-8:20.5', B-16:8' and B-16:15' all contained concentrations of TPHg above the gasoline ESL of 100 mg/kg. Sample B-16:8' also contained TPHd and BTEX that exceed the respective ESLs for these compounds. Benzene was detected above the ESL in soil samples B-16:8', B-16:15' and MW-8:11'.

Groundwater samples collected from wells MW-8, GW-1, and GW-2 contained TPHg above the gasoline ESL of $100\mu g/L$. The groundwater sample from MW-8 also contained TPHd, benzene, and xylenes above respective ESLs of $100\mu g/L$, $1 \mu g/L$, and $20\mu g/L$. The groundwater sample collected from well GW-1 contained concentrations of benzene, toluene (ESL of $40\mu g/L$), ethylbenzene (ESL of $30\mu g/L$), and total xylenes significantly above residential ESLs. The groundwater sample collected from well GW-3 contained concentrations of TPHg and benzene above the respective ESLs.

Based on the comparison of site data with ESLs it appears the potential human health risks at the site include exposure from direct-contact with petroleum-impacted soils (i.e., during construction activities) and intrusion and subsequent inhalation (indoor) of petroleum-related vapors from impacted soil and groundwater.

SITE HYDROGEOLOGY AND STRATIGRAPHY

Soil beneath the site consists primarily of sand and silts with occasion sandy clays and clayey sand. A dark yellowish-brown sandy clay was observed from the surface to approximately 3 to 4 feet bgs. In general, a moderate yellowish-brown to moderate reddish-brown silty-sand unit was observed beneath the surface clay layer to the maximum depth of exploration at 27 feet bgs. In the western part of the site, a clayey sand unit was observed from a depth of approximately 5 to 10 feet bgs and a fine to medium-grained sand unit was observed on occasion from this same depth interval in other parts of the site. Groundwater at the site was first encountered at depths ranging from 10 to 12 feet bgs. Perched groundwater was observed from approximately 5 to 7 feet bgs at several locations.

DISCUSSION OF REGULATORY TECHNICAL COMMENTS

The following is IMPACTs response to Alameda County Environmental Health Services letter (dated July, 31, 2008) requesting additional information and providing technical comment on the Remediation Workplan (dated October 18, 2008) prepared by IMPACT for the subject site.

IMPACT recommends installing eight dual-phase vapor extraction (DPE) wells at the locations shown on Figure 7. The proposed dual phase extraction well are located in (or near) the petroleum hydrocarbon contamination source area as defined by soil and groundwater samples collected during site characterization. The DPE system will generate a high vacuum, which is applied to recovery wells through a sealed well cap and drop suction tube. It is anticipated that DPE wells will be installed to a depth of approximately 14 to 15-feet bgs with the well screens extending from the bottom of the well to approximately 7-feet bgs. The depth interval of the DPE well screen corresponds vertically to areas with the highest concentrations of petroleum hydrocarbons in soil. The 1-inch diameter, PVC drop tube will extend through the well seal into the DPE well to depths ranging from 10 to 14 feet bgs. The drop tube will act like a straw in a glass of water. The high vacuum generated at the DPE wells will draw groundwater out of the

well and lower the water table to the bottom of the drop tube. This drop in water level will expose a greater portion of the well screen to the vacuum. As a result, hydrocarbons vapors will be drawn out of the well screen and surrounding unsaturated soils. Any additional water that enters the well due to recharge will be immediately pulled into the drop tube and therefore water levels in the DPE wells will be maintained at the bottom of the drop tube.

DPE wells will be installed using a drill-rig equipped with 8-inch HSA. The wells will be constructed of Schedule 40, 2-inch-diameter, flush-threaded, PVC casing. Well screens will consist of Schedule 40, 2-inch-diameter, flush-threaded, 0.010-inch, machine-slotted, PVC well screen. The small screen size will be used to minimize the capture of fine-grained sands and silts which exist at the site.

Based on site conditions identified during well installation and groundwater sampling, IMPACT concludes that mobile vacuum enhanced multi-phase extraction (MEME) is not the most economically viable remedial option for petroleum hydrocarbons in soil and groundwater at the subject property. It is our judgment that due to the severity and spatial extent of petroleum hydrocarbon contamination in soil and groundwater beneath the site, a more stationary high vacuum system would be a more economically beneficial system to remediate petroleum hydrocarbon contamination at the site.

Based on relatively low groundwater yield and relatively slow recharge rates identified during well development and sampling activities, IMPACT concludes that groundwater pump-and-treat would not be an economically or technically beneficial remedial technology for petroleum hydrocarbons in groundwater at the site. Our initial conceptual groundwater remedial approach was to use pump and treat technology in conjunction with soil-vapor extraction (SVE) to minimize groundwater upwelling into unsaturated soil and to lower the groundwater column thus creating a greater area of unsaturated soil that could undergo vacuum treatment.

IMPACT concurs with ACDEH that due to the current absence of free-product in groundwater samples collected at the site thus far, a free-product bail-down test is not necessary at this time. However, should site conditions change and free-product be discovered during subsequent groundwater monitoring and sampling events, free product recovery-rate testing and free product removal will be required.

CONCLUSIONS

Based on the results of soil and groundwater results collected from the wells and confirmation exploratory borings, the following are IMPACTs conclusions regarding the subject property.

- Groundwater samples collected from wells MW-8, GW-1, and GW-3 contained several COCs above respective residential ESLs.
- The horizontal extent of petroleum hydrocarbons in shallow groundwater has been well defined at the site. However, the vertical extent of petroleum hydrocarbons and related compounds has not been defined at the subject property.
- The spatial extent of petroleum hydrocarbons in soil beneath the site has been well defined. Soil containing petroleum hydrocarbons in excess of respective ESLs appear to be outlined by wells GW-1 (per historical boring B-9), GW-3, and MW-8. In addition The vertical extent of soil containing significant concentrations of petroleum hydrocarbons does not appear to extend deeper than approximately 22 feet.
- Groundwater elevation contours indicate that shallow groundwater flow in the northwest corner of the site is generally to the south-southwest at an approximate gradient of 0.0068. Groundwater flow in the southeast corner of the site has an approximate gradient of 0.0032. Groundwater flow in the southern portions of the property is to the north-northeast at an approximate gradient of 0.0016. A groundwater sink low with a subdued gradient is present in much of the center of the property.
- Based on the comparison of site data with ESLs, it appears the potential human health risks at the site include exposure from direct-contact with petroleum-impacted soils (i.e., during construction activities) and intrusion and subsequent inhalation (indoor) of petroleum-related vapors from impacted soil and groundwater.
- Soil and grab groundwater samples collected from confirmation exploratory boring B-16 confirmed the presence of petroleum contamination in proximity to Blymer exploratory boring B-3. The absence of significant petroleum hydrocarbon contamination in

confirmation exploratory boring B-17 appears to refute historical soil and groundwater data which suggests the presence of significant petroleum hydrocarbon contamination in proximity to Blymer boring B-2.

RECOMMENDATIONS

IMPACT recommends installing eight soil-vapor extraction wells at the locations shown on Figure 7. IMPACT also recommends installing an additional deep well near wells MW-8 and GW-1 to help evaluate the vertical extent of petroleum hydrocarbons in groundwater. The proposed deep groundwater monitor well will be screened at depths beyond 27 feet bgs to monitor groundwater deeper than the interval monitored in well MW-8. IMPACT further recommends continuing quarterly groundwater monitoring to evaluate temporal changes in groundwater quality and to monitor groundwater plume migration.

PERJURY STATEMENT

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

Joseph A. Cotton, P.G.7378 Principal Environmental Geologist



Distribution:

- (1) Copies Mrs. Shirley E. Thompson, 1155 Hopkins Way. Berkeley, CA
- (1) Copies Mr. Steven Plunkett, Alameda County Environmental Health

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Mr. Steven Plunkett October 9, 2008 Page 19

<u>Attachments:</u> <u>Tables</u> Table 1 –Soil Analytical Results Table 2 –Well Construction Details for Groundwater Wells Table 3– Summary of Groundwater Elevations Table 4– Groundwater Analytical Results

Figures

Figure 1 - Site Location Map

Figure 2 – Site Plan

Figure 3 - Map Showing TPHg Soil Results

Figure 4 - Groundwater Elevation Contour Map_ April 30, 2008

Figure 5 – Map of TPHg in Groundwater

Figure 6 – Map of Benzene in Groundwater

Figure 7 – Proposed Soil-Vapor Extraction Well Locations

Appendices

Appendix A - Alameda County Public Works Agency Drilling Permits

Appendix B – Boring Logs

Appendix C - Certified Laboratory Analytical Report

Appendix D - Well Development Data Sheets and Certified Well Survey Reports

Appendix E – Groundwater Sampling and Well Gauging Data Sheets

LIMITATIONS

Impact Environmental's actions on this project were performed in accordance with current generally accepted environmental consulting principles and practices. This warranty is in lieu of all others, be it expressed or implied. Environmental conditions may exist at the site that could not be observed. Where the scope of services was limited to observations made during site reconnaissance, interviews, and/or review of readily available reports and literature, our conclusions and recommendations are necessarily based largely on information supplied by others, the accuracy and sufficiency of which may not have been independently reviewed by us. Our professional analyses are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions between such sampling points. Additional data from future work or changing conditions may lead to modifications to our professional opinions and recommendations. Any reliance on this report, or portions thereof, by a third party shall be at such party's sole risk.

Table 1Soil Analytical Results1409-1417 12th StreetOakland, California

Sample ID	Date	Sample Depth	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes
	Sampled	(11 0 6 5)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-1-5.5'	03/10/08	5.5	<1	18.7	20.5	< 0.005	< 0.005	< 0.005	< 0.015
MW-1-10.5'	03/10/08	10.5	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-1-15'	03/10/08	15	<1	4.70	6.35	< 0.005	< 0.005	< 0.005	< 0.015
MW-2-7'	03/11/08	7	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-2-10.5'	03/11/08	10.5	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-2-13.8'	03/11/08	13.8	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-4-9.5'	03/11/08	9.5	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-4-12'	03/11/08	12	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-4-17'	03/11/08	17	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-6-5'	04/02/08	6.5	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-6-10'	04/02/08	10	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-6-15'	04/02/08	15	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-8-6.5'	03/10/08	6.5	333	54.7	<4	<0.5	< 0.5	1.7	8.2
MW-8-11'	03/10/08	11	40	<2	<4	0.76	1	1.4	7.7
MW-8-16'	03/10/08	16	138	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
MW-8-20.5'	03/10/08	20.5	107	3.0	4.41	< 0.005	< 0.005	< 0.005	< 0.017
MW-8: 27'	03/13/08	27	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
GW-2-5'	04/03/07	5	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
GW-2-10'	04/03/07	10	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
GW-2-15'	04/03/07	15	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
GW-2-18'	04/03/07	18	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
B-16-5'	03/06/08	5	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
B-16-8'	03/06/08	8	4,700	240	<40	13	180	110	520
B-16-10'	03/06/08	10	0.116	<2	<4	< 0.005	0.0066	0.0079	0.026
B-16-13'	03/06/08	13	2.3	60	<4	0.17	0.077	0.080	0.30
B-16-15'	03/06/08	15	520	17	<4	2.3	7.7	16	52
B-16-20'	03/06/08	20	1.134	<2	<4	< 0.005	0.032	0.025	0.12
B-16-22'	03/06/08	22	0.740	<2	<4	0.0082	0.049	0.027	0.13
B-17-5'	03/07/08	5	<1	<2	29.2	< 0.005	< 0.005	< 0.005	< 0.015
B-17-10'	03/07/08	10	<1	<2	4.16	< 0.005	< 0.005	< 0.005	< 0.015
B-17-15'	03/07/08	15	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
B-17-20'	03/07/08	20	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
B-17-25'	03/07/08	25	<1	<2	<4	< 0.005	< 0.005	< 0.005	< 0.015
Residential ESL for Shall	low Soil (NDWS)		100	100	500	0.18	9.3	32	11
Residential ESL for Shall	ow Soil (DWS)		100	100	500	0.044	2.9	3.3	2.3

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd & TPHmo= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260

mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

Note: Soil samples collected from boring B-16 were used to represent soil quality for proposed extraction well GW-3, due to their close proximity.

Table 1Soil Analytical ResultsGrondwater Monitoring Well Installation1409-1417 12th StreetOakland, California

Sample ID	Date	Sample	1,2-Dibromomethane	1,2-Dichloroethane	Diisopropyl Ether	Ethyl tert-butyl ether	Isopropyl Ether	Methyl tert-butyl ether	t-Butanol	tert-Amyl methyl ether
	Sampled	Depth	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-1-5.5'	03/10/08	5.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-1-10.5'	03/10/08	10.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-1-15'	03/10/08	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-2-7'	03/11/08	7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-2-10.5'	03/11/08	10.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-2-13.8'	03/11/08	13.8	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-4-9.5'	03/11/08	9.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-4-12'	03/11/08	12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-4-17'	03/11/08	17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-6-5'	04/02/08	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-6-10'	04/02/08	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-6-15'	04/02/08	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
MW-8-6.5'	03/10/08	5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<0.5
MW-8-11'	03/10/08	11	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<0.5
MW-8-16'	03/10/08	16	<0.5	<0.5	<0.5	< 0.5	< 0.5	<1.0	<5.0	<0.5
MW-8-20.5'	03/10/08	20.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<1.0	<5.0	<0.5
MW-8-27'	03/10/08	27	NA	NA	<0.5	<0.5	NA	<1.0	<5.0	<0.5
GW-2-5'	04/03/07	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
GW-2-10'	04/03/07	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
GW-2-15'	04/03/07	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
GW-2-18'	04/03/07	18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-16-5'	03/06/08	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-16-8'	03/06/08	8	<10	<10	<10	<10	NA	<20	<100	<10
B-16-10'	03/06/08	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-16-13'	03/06/08	13	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.050	< 0.250	< 0.025
B-16-15'	03/06/08	15	<1.0	<1.0	<1.0	<1.0	NA	<2.0	<10	<1.0
B-16-20'	03/06/08	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-16-22'	03/06/08	22	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-17-5'	03/07/08	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-17-10'	03/07/08	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-17-15'	03/07/08	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-17-20'	03/07/08	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
B-17-25'	03/07/08	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005
Residential ESL for	Shallow Soil (D	WS)	7.3	25	NA	NA	NA	23	57,000	NA

Fuel Oxygenates by EPA Method 8260

mg/kg = Milligrams per kilogram, equivalent to parts per million (ppm)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

Note: Soil samples collected from boring B-16 were used to represent soil quality for proposed extraction well GW-3, due to their close proximity.

Table 2Well Constructions Details for Groundwater Wells1409-1417 12th StreetOakland, California

Well Number	TOC Elevation (feet) NAVD88	Well L Northing NAD83	ocation Easting NAD83	Total Depth of Boring (feet, bgs)	Total Depth of Well (feet, bgs)	Casing Diameter (inches)	Casing Material (gauge/type)	Screened Interval (feet, bgs)	Slot Size (inches)	Filter Pack (feet, bgs)	Filter Pack Type	Bentonite Seal (feet, bgs)	Neat Cement Seal (feet, bgs)
MW-1	21.49	37.8088602	-122.2926636	17	13.92	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-2	20.61	37.8090210	-122.2927461	14	13.91	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-3	21.09	37.8089672	-122.2926514	15	13.59	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-4	20.35	37.8089714	-122.2924800	17	13.90	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-5	20.05	37.8091233	-122.2927183	15	13.87	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-6	19.67	37.8081279	-122.2925899	15	14.44	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-7	19.88	37.8090964	-122.2924472	14	13.81	2	SCH40 PVC	14-7	0.010	14-6	#2/12	6 - 4	4 - Surface
MW-8*	20.71	37.8090245	-122.2926416	27	27.55	2	SCH40 PVC	27-20	0.010	27-19	#2/12	19-17	17 - Surface
GW-1	20.23	37.8090591	-122.2926359	17	17.05	4	SCH40 PVC	14-7**	0.010	17-6	#2/12	6 - 4	4 - Surface
GW-2	20.57	37.8090554	-122.2926970	18	17.00	4	SCH40 PVC	14-7**	0.010	17-6	#2/12	6 - 4	4 - Surface
GW-3	20.57	37.8090566	-122.2925325	17	17.98	4	SCH40 PVC	14-7**	0.010	17-6	#2/12	6 - 4	4 - Surface

Notes:

TOC - top of casing

feet, NAVD88 - feet relative to NAVD88

feet, bgs - feet below ground surface

BOH - bottom of well

*- 10-inch conductor casing installed in the boring from the surface to 20 feet bgs.

**- 3 foot sump constructed of 4" diameter blank Schedule 40 PVC attached to the bottom of the screened portion of the well from 17-14 feet bgs.

	Top-of-Casing Elevation	Date Measured	Floating Product Thickness	Depth to Water	Groundwater Elevation
Well No.	(feet, MSL) ¹		(feet)	(feet)	(feet, MSL) ¹
MW-1	21.49	04/30/08	0.0	10.52	10.97
MW-2	20.61	04/30/08	0.0	9.64	10.97
MW-3	21.09	04/30/08	0.0	10.20	10.89
MW-4	20.35	04/30/08	0.0	9.43	10.92
MW-5	20.05	04/30/08	0.0	9.10	10.95
MW-6	19.67	04/30/08	0.0	8.60	11.07
MW-7	19.88	04/30/08	0.0	8.96	10.92
MW-8	20.71	04/30/08	0.0	9.82	10.89
GW-1	20.23	04/30/08	0.0	9.34	10.89
GW-2	20.57	04/30/08	0.0	9.7	10.87
GW-3	20.57	04/30/08	0.0	9.6	10.97

Table 3Summary of Groundwater Elevations1409-1417 12th StreetOakland, California

Notes:

Table 4Groundwater Analytical Results

1409-1417 12th Street Oakland, California

	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MtBE
Sample ID	Sampled	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-1	04/30/08	54	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-2	04/30/08	<50	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-3	04/30/08	<50	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-4	04/30/08	<50	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-5	04/30/08	<50	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-6	04/30/08	53	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-7	04/30/08	<50	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
MW-8	04/30/08	1,049	161	<200	13.9	12.4	9.76	160	< 0.500
GW-1	04/30/08	37,000	7.25	<200	2,400	769	378	3,450	< 0.500
GW-2	04/30/08	74	<100	<200	< 0.500	< 0.500	< 0.500	<1.5	< 0.500
GW-3	04/30/08	250	<100	<200	46.5	1.36	2.16	6.27	< 0.500
		G	rab Grounwate	er Sample Result	s from Explorat	ory Borings			
B-16*	03/06/08	130	15	<4.68	6,820	9,410	3,360	17,400	<4.40
B-17*	03/07/08	<50	<1.0	2	< 0.500	0.930	0.500	1.56	< 0.500
Residential ESL	L (DWS)	100	100	100	1	40	30	20	5
Residential ESL	L (NDWS)	500	640	640	46	130	290	100	1,800

Abbreviations and Methods:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

TPHmo= Total Petroleum Hydrocarbons as motor oil by EPA Method 8015

Benzene, methyl-tert-butyl ether, toluene, ethylbenzene, and xylenes by EPA Method 8260

ug/L= Micrograms per liter, equivalent to parts per billion (ppb)

ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, February 2005.

DWS- Groundwater beneath site is a drinking water source

NDWS- Groundwater beneath site is not a drinking water source

*- Groundwater samples were also analyzed for all seven fuel oxygenates, but were not detected at or above MRLs.



C:\WORK\IES\1409 12th Street\Figure 1.dwg Layout: Fig 2 Sep 22, 2007 - 8:03pm



Figure 2 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

SITE PLAN

12TH STREET



Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538 Figure 3 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

TPHg IN SOIL



Figure 4 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

GROUNDWTER ELEVATION MAP



Figure 5 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

TPHg IN GROUNDWATER



Figure 6 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

BENZENE IN GROUNDWATER



Figure 7 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

PROPOSED SOIL-VAPOR EXTRACTION WELL LOCATIONS

APPENDIX A

Alameda County Public Works Agency Drilling Permit

Alameda County Public Works Agency - Water Resources Well Permit

PUBLIC	399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(51	5 D)782-1939		
Application Approved	on: 03/05/2008 By jamesy	Permit Numbers: W2008-0089 to W2008-0098 Permits Valid from 04/02/2008 to 04/02/2008		
Application Id:	1203924117651	City of Project Site: Oakland		
Site Location: Project Start Date:	03/06/2008	Completion Date:03/14/2008		
Scheduled Inspection Extension Start Date: Extension Count:	03/10/2008 at 10:00 AM (Contact your inspector, 04/02/2008 2	Vicky Hamlin at (510) 670-5443, to confirm.) Extension End Date: 04/02/2008 Extended By: vickyh1		
Applicant:	IMPACT ENVIRONMENTAL - JOSEPH	Phone: 510-703-5420		
Property Owner: Client: Contact:	COTTON 39120 ARGONAUT WAY, SUITE 223, FREMON Shirley Thompson 1155 Hopkins Street, Berkeley, CA 94702 Joseph Cotton 39120 Argonaut Way, Suite 223, Fremont, CA 94 JOSEPH COTTON	Г, СА 94538 Phone: 510-527-5702 Phone: 510-703-5420 Phone: 510-703-5420 Cell: 510-703-5420		

	Total Due:	\$2800.00
Receipt Number: WR2008-0063	Total Amount Paid:	\$2800.00
Payer Name : Joseph A. Cotton	Paid By: MC	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 8 Wells Driller: Woodward Drilling - Lic #: 57581639 - Method: auger

Specification	ns						
Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2008- 0089	03/05/2008	06/08/2008	MW-1	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0090	03/05/2008	06/08/2008	MW-2	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0091	03/05/2008	06/08/2008	MW-3	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0092	03/05/2008	06/08/2008	MW-4	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0093	03/05/2008	06/08/2008	MW-5	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0094	03/05/2008	06/08/2008	MW-6	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0095	03/05/2008	06/08/2008	MW-7	8.00 in.	2.00 in.	8.00 ft	25.00 ft
W2008- 0096	03/05/2008	06/08/2008	MW-8	8.00 in.	2.00 in.	8.00 ft	25.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

Work Total: \$2400.00

Alameda County Public Works Agency - Water Resources Well Permit

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Borehole(s) for Investigation-Contamination Study - 3 Boreholes Driller: Woodward Drilling - Lic #: 57581639 - Method: auger

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2008- 0097	03/05/2008	06/08/2008	3	2.50 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will

Work Total: \$200.00
Alameda County Public Works Agency - Water Resources Well Permit

need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

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

Remediation Well Construction-Extraction - 4 Wells Driller: Woodward - Lic #: 710079 - Method: hstem

Specificatio	ns						
Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2008- 0098	03/05/2008	06/08/2008	GW-1	10.00 in.	4.00 in.	8.00 ft	30.00 ft
W2008- 0098	03/05/2008	06/08/2008	GW-2	10.00 in.	4.00 in.	8.00 ft	30.00 ft
W2008- 0098	03/05/2008	06/08/2008	GW-3	10.00 in.	4.00 in.	8.00 ft	30.00 ft
W2008- 0098	03/05/2008	06/08/2008	GW-4	10.00 in.	4.00 in.	8.00 ft	30.00 ft

Work Total: \$200.00

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no

Alameda County Public Works Agency - Water Resources Well Permit

case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

6. Minimum surface seal thickness is two inches of cement grout placed by tremie

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

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

APPENDIX B

Boring Logs

PROJE	ECT:	IES Oak	OA lano	KLAND - d, Califor	· 1409 1 nia	2 TH STREET		Boring Log Explanation				
BORIN	IG LO	CATIO	ON:	·······				ELEVATION A	ND DATUM:			
DRILLI	NG C	ONTF	RAC	FOR:				DATE START	ED:	DATE FIN	ISHED:	
DRILLI	NG M	ETH	DD:					TOTAL DEPTI	⊣ (ft.):	MEASURI	NG POINT:	
DRILLI	NG E	QUIP	MEN	IT:				DEPTH TO WATER	FIRST	COMPL.	24 HRS.	
SAMPI		METH	IOD:		1	LOGGED BY:						
НАММ	ER W	EIGH	IT:			DROP:		RESPONSIBL	E PROFESS	ONAL:	REG. NO.	
DEPTH (feet)	SAN No.	MPLE 	ows/ S	OVM EADING (ppm)	N	DESCRIPTION AME (USCS): color, moist, % by wt. cementation, react. w/HC	N ., plast. den: X, geo. inter	sity, structure,		R	EMARKS	
	s S	S I	<u>n</u>	<u> </u>		Surface Elevation:		at 100 - 11 10 100 -				
					No	tes:			-			
1- 2- -					1. 2.	Soil described using visual-manua Society of Testing and Materials (A guidance; a Standard based on the System. Soil color described according to N	Il procedure ASTM) Star e Unified S Munsell Col	es of American ndard D 2488 fr oil Classificatio or Chart.				
3					3.	Dashed lines separating soil strata boundaries between sampled inter gradual transitions.	a represent	inferred ay be abrupt o	r –			
5-					4.	Solid lines represent approximate sample intervals.	boundaries	observed with	in _			
- 6-					5.	OVM = organic vapor meter, readi million (ppm).	ng in volun	netric parts per	-			
- 7-					6.	Odor, if noted is subjective and no specific compounds or concentrati	t necessari ions.	ly indicative of	-			
					7.	NA = not applicable.			-			
8-					8.	ND = no data.						
9- - 10-	-				Inte	erval of recovered soil collected wit	th split-spo	on drive sampl	er			
- 11-		X			Inte	erval of no recovery.			-			
12- - 13- -	MW-1-12.5				Sa	mple collected for chemical analysi	is and sam	ple identificatio	ın. –			
14-					2 							
15-												
		11/	E G	ieomatr	ix			Proj	ect No. 14194	1.002	летнокм (Rev. 7/99) Page 1 of 1	

PROJI	ECT:	IE: Oa	S OA	KLAN d, Ca	ID - iforr	1409 1 nia	2 TH STREET			Log o	f Well	No. N	IW-1
BORIN	IG LC		NON:	Along	S pr	operty li	ne, 33' E of SW corner		GROUND	ID SURFACE ELEVATION AND DATUM: rveyed; datum is ground surface			
DRILL	ING C	ON	TRAC	TOR:	Woo	dward [Drilling Co		DATE ST/	ARTED:	······································	DATE F	INISHED:
DRILL		IETI	HOD:	Hollo	w-ste	em auge	er		TOTAL DI	EPTH (ft.):		SCREE 7.0-13	, N INTERVAL (ft.): 7
DRILL	ING E	QU	PME	NT: B	K-81				DEPTH TO WATER:	O FIRST	COMPL	CASING	3: 40 PVC
SAMP	LING	ME	THOD	: Spl	it-spo	oon driv	e sampler [24" x 2"]		LOGGED	BY: M Goerz		12 00.	
HAMN	IER V	/EIG	HT:	140 II	os		DROP: 30 in.		RESPON	SIBLE PRO	OFESSION	AL:	REG. NO.
PTH set)	SA ele	MPI ele	es st	VM ading	I	NAME (U	DESCRIPTION SCS): color, moist, % by wt., pla	st. density, stru	cture,		WEI	L CONSTR ND/OR DRIL	LUCTION DETAILS
DEI (fe	Sam	Sam	P R N	Reo O			Surface Elevation: Not	surveyed					
- 1- - 2-						LEAN 95% fir	CLAY (CL): olive brown (2.5 nes, 5% fine to medium sand	iY 4/3), moist, , nonplastic, s	oft		Tra	ffic Rated leat ceme .25" diam	Well Box nt grout eter borehole
3- - 4-						SILTY 80% fii	SAND (SM): olive brown (2 ne sand, 20% low plasticity fi	.5Y 4/4), mois nes	t,		F	VC casin	g
5- - 6- -	MW-1-5.5		25	3.5 5.4	Ŧ	wet					F ====================================	3entonite o 42/12 filter	chip seal pack sand
7		\square		0.5	T	moist						" diamete	r. 0.010" slot.
8-		$\left \right\rangle$		0.0	ł	light ol	ive brown (2.5Y 5/6)					Schedule 4	40 PVC screen
9-	-	X	66	1.4									
10-	1 1 1 /W-1-10.5		<u>50</u>		ł	wet, ol	ive brown (2.5Y 5/4)						
11-		-	4										
12-		$\left \right $		0 0									
13-		$\left \right $	55	0 0									
14-	MW-1-15.0		71	0	¥	olive b	rown (2.5Y 4/4) mottled with	gray (2.5Y 6/1)			Schedule 4 endcap wit steel screv	40 PVC th stainless vs terial
15-			L	1 0	· · · · ·		· · · · · · · · · · · · · · · · · · ·	I:\PROJECT\\1419	4.002\GINT LOG		W-1_PP WELL.GD	W OAKWELL	_V_PREPACK (REV. 9/2007)
			//@=	Geo	mat	rix				Project No	o. 14194.00	2	Page 1 of 2

PROJE	ECT:	IE: Oa	S OA aklan	KLAN d, Cal	D - 1409 12 [™] STREET ifornia	Log of Well No. MW-1 (cont'd)					
DEPTH (feet)	Sample No.	Sample N	Blows/ H Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., pl cementation, react. w/HCl, g	ast. density, structure, eo. inter.		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS			
це це це це це це це це це це	MW4-1720 Sample	Sampl	Blows 29	OV	NAME (USCS): color, moist, % by wt., pl cementation, react. w/HCl, g SILTY SAND (SM): cont'd Bottom of boring at 17.0 feet	ast. density, structure, eo. inter.		 Native material 2" diameter borehole Notes: OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. Hand augered to 5 feet bgs. Lithology described from soil cuttings. Perched water encountered at 5.0 feet bgs. Depth to water was measured on 3/10/08 at 1032 hours at approximately 14 feet bgs. Depth to water was measured on 3/11/08 at 0900 hours at approximately 9.1 feet bgs. 			
29- 30- 31-							-				
32-	-										
			//&	Geo	matrix	I:\PROJECT\\14194.002\GINT LOC	Pro	awingsww-1_pp well.gdw Oakwellv_prepack (rev. 9/2007) oject No. 14194.002 Page 2 of 2			

PROJE	ECT:	IE O	S OA aklar	KLAN d, Ca	ID - 1409 12 lifornia	[™] STREET			Log o	f Well	No. M	W-2	
BORIN	IĠ LC	CA	TION:	Along	W property lir	e, 42' N of SW corner of p	property	GROUND	GROUND SURFACE ELEVATION AND DATUM:				
DDUL					Moodword Dr			DATE ST	ARTED:	im is grou	DATE FI	e NISHED:	
DRILLI				-10R:			······································	3/11/08			3/11/08		
DRILLI	ING	NET	HOD:	Hollo	w-stem auger			14.0 7.6-14.1					
DRILLI	ING E	EQU	IPME	NT: B	K-81			DEPTH T WATER:	O FIRST	COMPL	CASING: 2" Sch. 4	40 PVC	
SAMPI	LING	ME	THOD	: Spl	it-spoon drive	sampler [24" x 2"]		M. Web	b/M. Goerz	2	<u>.</u>		
HAMM	IER V	VEIC	GHT:	140 I	bs	DROP: 30 in.		RESPON R. Schu		DESSION	AL: į	CHG 833	
EPTH (feet)	AS No he	mple	LES	OVM eading	NAME (US	DESCRIPTION CS): color, moist, % by wt., pl cementation, react. w/HCl, g	last. density, stru geo. inter.	cture,		WEL AN	L CONSTRU ID/OR DRILL	ICTION DETAILS ING REMARKS	
<u>م</u>	Sal	Sal	m m	Č Å		Surface Elevation: No	ot surveyed						
_					ASPHAL	TIC CONCRETE: (2 inche	es thick)			Traf	fic Rated V	Vell Box	
4					SILTY G	RAVEL with SAND (GM):	yellowish brov	vn ,		×		4	
1-	1		l		fine to c	o), moist, 60% fine to coa	rse gravel, 25% icity fines	0		× N	eat cement	i grout	
- າ.]					oarse sand, 1070 low plast	iony inico			8	.25" diamet	ter borehole	
2-										2	" diamotor '	Schodulo 40	
2					SILTY S	AND (SM): very dark brov	wn (10YR 2/2),	r		🗱 Р	VC casing		
3-					moist, 80	1% fine sand, 20% low pla	sticity fines			**			
-										*			
4-					brown (10YR 4/3), wet				**			
	-									**			
5-		\vdash								7			
-		$\left \right\rangle$		0	CLAYEY	SAND (SC): brown (10YF	R 2/2) mottled v	with		В	entonite ch	ip seal	
6-		$ \rangle$			strong b	rown (7.5YR 4/6), moist, 7	0% fine sand, 3	30%		24			
_	0.7			0	low plast	icity fines							
7-	MW-2-		40							 #	2/12 filter p	ack sand	
•													
0											ldiamatar	0.010" alat	
8-	1										chedule 40	PVC screen	
9										Notes	<u>s:</u>		
-	1									1. 0	VM = MiniR	AE 2000 PID	
10-	-10.5				<u></u>	AND (SM): olive brown (2 5Y 4/3) wet	85%	- ::目	Ca	norated wit	n 100 ppm tandard	
-	MW-2				fine sand	1, 15% low plasticity fines		0070	- ::冒	∴ ∵	and augere	d to 5 feet bas.	
11-				0		,			- :]昌	Lii	hology des	cribed from soi	
		\square		0					」:目	cu	ttings.		
40		X	54							3. P€	erched wate	er encountered	
12-]	\square			🖌 dark yell	owish brown (10YR 4/6) m	ottled with olive	e]:]]	at	4.0 feet bg	s.	
_	1	$ \rangle$			brown (2	.5Y 4/4)							
13-	3.8			0					目				
	IW-2-1									S	chedule 40	PVC	
14-	×	X	61							er	ndcap with	stainless	
_					R 11	<u>, , , , , , , , , , , , , , , , , , , </u>				st	eel screws		
15-					Bottom of	of boring at 14.5 feet					······	· .	
10			20	~			I:\PROJECT\\14194	4.002\GINT LOGS		2_PP WELL.GDV		PREPACK (REV. 9/200	
				Geor	natrix		· · · · · · · · · ·		Project No.	14194.002	2 P	age 1 of 1	

PROJE	ECT:	IE: Oa	S OA aklan	KLAN d, Ca	ND - 1409 12 TH STREET Ilifornia	Log of Well No. MW-3			
BORIN	IG LO		FION:	47' S,	30' E of NW corner of property	GROUND SURFACE ELEVATION AND DATUM:			
DRILL	ING (CON	TRAC	TOR:	Woodward Drilling Co	ATE STARTED: DATE FINISHED: 12/08 3/12/08			
DRILL	ING I	METI	HOD:	Hollo	ow-stem auger TO	DTAL DEPTH (ft.): SCREEN INTERVAL (ft.): 4.4 7.5-14.2			
DRILL	ING E	EQUI	IPMEN	NT: B	JK-81 DE W/	EPTH TO FIRST COMPL. CASING: ATER: Note 3 NA 2" Sch. 40 PVC			
SAMPI	LING	MET	rhod	: Spl	lit-spoon drive sampler [24" x 2"] LO M.	DGGED BY: . Gilmore			
НАММ	IER V	VEIG	SHT:	140 I	bs DROP: 30 in. RE	ESPONSIBLE PROFESSIONAL: REG. NO. . Schultz CHG 833			
EPTH feet)	No le	AMPI ajdu	oot SWS	DVM eading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure cementation, react. w/HCl, geo. inter.	re, WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS			
	Sal	Sai	Вщ	, R	Surface Elevation: Not surveyed				
					ORGANIC MATTER: (2 inches thick)	- Traffic Rated Well Box			
1					ASPHALTIC CONCRETE: (2 inches thick)				
-				0	POORLY GRADED GRAVEL with SAND (GP):				
-					fine to coarse sand, 5% fines [FIL1]	- Neat cement grout			
2-				0	CLAYEY SAND (SC): brown (10YB 4/3) moist 70%	A			
-				0	- fine to medium sand, 30% low plasticity fines	~ — _ - 1			
3-	-				SILTY SAND (SM): dark grayish brown (10YR 4/2),	- 2" diameter Schedule 40			
-	-			0	moist, 80% fine to medium sand, 20% nonplastic	PVC casing			
4-	-				fines brown (10VP 4/2)				
_	-								
5-				0					
-		$\left \right $		0	l	Bentonite chip seal			
6-		$ \setminus $		0					
- 1	0.	\square		0	CLAYEY SAND (SC): dark yellowish brown (10YR 4/4) moist 80% fine to medium sand 20% low				
7-	1-E-WN		36		plasticity fines	#2/12 filter pack sand			
'_	-	Λ		0					
		$ \setminus $			SILTY SAND (SM): brown (10YR 4/3), moist, 80%				
8-		$ \rangle$	<u>50</u>	0	line to medium sand, 20% holpiastic lines	2" diameter, 0.010" slot,			
-		\square	5"	U					
9-	3-9.5				wet	Notes:			
-	MM	$\mathbf{\Lambda}$		0		1. OVM = MiniRAE 2000 PID			
10-				U		calibrated with 100 ppm			
-		$ \setminus $	67	0		2. Hand augered to 5 feet bas.			
11-		\square	07	0		Lithology described from soil			
_				0		cuttings.			
12-		$ \setminus $		0		3. Perched water encountered at			
		\square	<u>50</u>	0					
12.		\boxtimes	5"	Ť					
13-		\square		~	brown (10YR 4/3) mottled with gray (10YR 5/1)				
	W-3-14			U					
14-	Σ	\square		0		Schedule 40 PVC endcap			
-	1.	$ \setminus $	29	0	Bottom of boring at 15.0 feet	Native material			
15-	L	<u> </u>		0	L	RING LOGS/DRAWINGS/MW-3_PP WELL.GDW OAKWELLV_PREPACK (REV. 9/2007)			
		2		Geor	matrix	Project No. 14194.002 Page 1 of 1			

PROJECT	: IE Oa	S OA aklan	KLAN d, Ca	ND - 1409 ⁻ lifornia	2 [™] STREET		Log of Well No. MW-4				
BORING L	.OCA	TION:	Along	E property I	ine, 36' S of NE corner of property	/		SURFACE	ELEVATIO	ON AND	DATUM:
DRILLING	CON	TRAC	TOR:	Woodward	Drilling Co		DATE ST	ARTED:	ino grou	DATE	FINISHED:
DRILLING	MET	HOD:	Hollo	w-stem aug	er		TOTAL D	EPTH (ft.):		SCREI	EN INTERVAL (ft.):
DRILLING	EQU	IPME	NT: B	K-81		DEPTH T WATER:	O FIRST	COMPL.	CASIN 2" Sch	G: 40 PVC:	
SAMPLING	G ME	THOD	: Spl	it-spoon driv	e sampler [24" x 2"]		LOGGED	BY: b/M. Goerz	1.0.	12 001	
HAMMER	WEIC	GHT:	140 I	bs	DROP: 30 in.		RESPON R. Schul	SIBLE PROF	ESSION	AL:	REG. NO. CHG 833
DEPTH (feet) ample o	ample AWA	Blows/ F	OVM Reading	NAME (l	DESCRIPTION JSCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. in	ensity, stru ter.	icture,		WEL AN	L CONST D/OR DR	RUCTION DETAILS ILLING REMARKS
- v	S S	<u>ш</u>		CLAY	Surface Elevation: Not surve	eyed	ish	44	Traf	fic Rater	i Well Box
				brown	(10YR 3/4), moist, 60% fine to co	parse grav	vel,				
1-				25% fi	ne to coarse sand, 15% low plasti	city fines			8 N	eat cem	ent grout
								-	8.	25" dian	neter borehole
2-						•			8		
-									2"	' diamet	er Schedule 40
3-								-	^ч	VC casir	ng
								-	8		
4-									8		
				SILTY	SAND (SM): dark brown (10YR ne sand 20% low plasticity fines	3/3), mois	st,		8		
5-				007011	ne sand, 20 % low plasticity lines				×,		
	Λ								B	ontonito	chin seal
6	V									entonite	cillb seal
	$ \Lambda $		0								
	$ \rangle$	6	0						* #2	2/12 filte	r pack sand
									:		
									-		
8-										' diamete	er, 0.010" slot, 40 PVC screen
1										lieuuie	
9-1-5				wet							
- W			0	•					:		
10-			0						·]		
-		40	0								
11-	H	+0	U	dark v	ellowish brown (10YR 4/4) mottled	l with darl	ĸ	- 目	:		
L 4-12.0			0	grayisl	1 brown (2.5Y 4/2)				:		
12-∄			0	dark w	ellowish brown (10YR 4/4)				:]		
	$ \rangle $		~	¥ GOIN Y				- <u> :</u>]	•		
13-	$\left + \right $	47	U	dark v	Nowish brown (10VR 1/6) mottled	with dar	<i>k</i>	- ∶]≣``	:		
			n	grayist	1 brown (2.5Y 4/2)	with udf	·	- :目:	.]		
14-			0		· ·				: Sr	chedule	40 PVC
		72	0						: en	ndcap wi	th stainless
15			0			14404 000 1000			ste		NS
	8	//&-	Geor	natrix		.\14194.002\1000	U BURING LOGS	Project No. 1	4194.002	OAKWEL	Page 1 of 2
	2										

PROJE	ECT:	IE: Oa	S OA aklan	KLAN d, Cali	D - 1409 12 [™] STREET ifornia	Log of V	/ell No. MW-4 (cont'd)
DEPTH (feet)	Sample No.	Sample 5	Blows/ F Foot	OVM Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., pla cementation, react. w/HCl, g	ist. density, structure, eo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
·					SILTY SAND (SM): cont'd		
- 16-		$\left \right\rangle$		0	CLAYEY SAND (SC): dark yellowish 4/6) mottled with dark grayish brown	n brown (10YR (2.5Y 4/2), 70%	- #2/12 filter pack sand
	W-4-17.0		19	0	fine sand, 30% low plasticity lines		2" diameter borehole
	Ŵ				Bottom of boring at 17.0 feet		-
18-	-						– <u>Notes:</u>
-							1. OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard.
19-							 2. Hand augered to 5 feet bgs. Lithology described from soil
20-	-						cuttings.
-							
21-							
22-							
-							-
23-							
24-	-						-
-	-						-
25-							
26-							-
	-						_
27-	-						-
-							
28-	1						-
29-]						
-							4
30-							-
			,				
- 31							
32-							-
-							-
33-		1		L I	l'\PRC	JECT\\14194.002\10000 BORING LOGS	
			//&	Geon	natrix		Project No. 14194.002 Page 2 of 2

PROJI	ECT:	IE Oa	S O/ aklar	AKLA Id, Ca	ND alifo	- 1409 12 [™] STREET rnia	Log of Well No. MW-5			
BORIN	NG LO	CA	TION:	Along	, W	property line, 20' S of NE corner of property	GROUNI	D SURFACE ELEVATION AND DA	ATUM:	
DRILL	ING (CON	TRAC	TOR:	Wo	oodward Drilling Co	DATE ST	TARTED: DATE FIN	; IISHED:	
DRILL	ING I	мет	HOD:	Hollo	ow-s	tem auger	TOTAL D	DEPTH (ft.): SCREEN	INTERVAL (ft.):	
DRILL	ING E	EQU	IPME	NT: E	3K-8	.1	DEPTH 1 WATER:	TO FIRST COMPL. CASING: Note 3 NA 2" Sch. 4	0 PVC	
SAMP	LING	ME	THOD	: Sp	lit-sp	boon drive sampler [24" x 2"]	LOGGED M. Web	b/M. Goerz		
HAMM	IER V	VEIC	SHT:	140	lbs	DROP: 30 in.	RESPON R. Schu	ISIBLE PROFESSIONAL:	REG. NO. CHG 833	
EPTH (feet)	SA ople ople		ES /swc	DVM eading		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, str cementation, react. w/HCl, geo. inter.	ucture,	WELL CONSTRUC AND/OR DRILLI	CTION DETAILS NG REMARKS	
	Sai	Sar		Ľď		Surface Elevation: Not surveyed				
_					\vdash	ASPHALTIC CONCRETE: (3 inches thick)		- Traffic Rated W	/ell Box	
1_						SILTY GRAVEL with SAND (GM): yellowish bro	wn %	Noat comont	arout	
						fine to coarse sand, 15% low plasticity fines	70	Neat cement	giour	
2-										
-						SILTY SAND (SM): brown (10VP 4/3) moist 8	<u>n%</u>	Z" diameter S	Schedule 40	
3-	-					fine sand, 20% low plasticity fines	0 76	PVC casing		
-										
4-	-				\vdash	wot				
					•	wet				
5-		\square				CLAYEY SAND (SC): dark yellowish brown (10	YR			
-		$\left \right\rangle$		0		4/4), moist, 75% fine sand, 25% low plasticity fin	es	Bentonite chi	p seal	
6-		$ \rangle$		0						
	1-5-7.0		65	0				│	ack sand	
7-	Ŵ									
-		$\left \right\rangle$		0		SILTY SAND (SM): brown (7.5YR 4/4), moist, 8	0%	· · · · · · · · · · · · · · · ·	0.010" slot,	
8-		$ \setminus $		0		fine sand, 20% low plasticity fines		Schedule 40 I	PVC screen	
-		$ \rangle$	56	0				Notos		
9-		\square			ľ			1. OVM = MiniRA	AE 2000 PID	
-	-5-10.0			0	T	wet		calibrated with	100 ppm	
10-	MM	\setminus						isobutylene sta	andard.	
_		$ \setminus $		0				Lithology descr	ribed from	
11-		\square	59					augur cuttings.	,	
				0	T	85% fine sand, 15% low plasticity fines		3. Perched water	encountered	
12-				0					•	
-			62	0						
13-		\exists		-						
-										
14-	/-5-15.(T	olive brown (2.5Y 4/3) mottled with dark brown	inn	Schedule 40 P	VC endcap	
-	WW		33			(7.51 K 5/5), ou% line sand, 20% low plasticity fill Bottom of boring at 15.0 feet	ies	With stainless s 2" diameter bor	rehole	
15-	L				1	Lottom of borning at 15.0 feet NPROJECT1/4194.002/10000 BO	RING LOGS\GINT	LOGS\DRAWINGS\MW-5_PP WELL OAKWELLV_PI	REPACK (REV. 9/2007)	
				Geo	mat	rix		Project No. 14194.002 Pa	ige 1 of 1	

11	MP	ACT EI	nvironr	nen	tal		BORING LOG BORING LOG Boring No						
s	Site:	1409- 1417 1	2th ST. , OA	KLAND	, CA				Ground Elevation:				
C	Client:	MRS. SHIRLE	Y E. THOMPS	ON									
F	Project I	Number:							Coordinates:				
	Date(s)	Drilled:	04/02/08						Drilling Method:	Hollow-Stem Auger			
	Date(s)	Installed:	04/03/08	וופח ח					Borehole Total Depth:	15 [.]			
		CO./Dimer.				lonth unit	a Q in ah	hallow					
L	with S	Summary: Schedule 40 P	<u>Advance bor</u> VC casing an	<u>ing to ta</u> d 0.010	<u>rget c</u> -inch	<u>slot scree</u>	<u>ig 8-inch</u> en (14- 6-	<u>nollow</u> feet. b	stem augers. Install 2-inch diameter groups), #2/12 filter sand from TD to 5 feet, b	bundwater monitoring well bogs, bentonite pellets (coated) to 4			
	faath	~~ ~~~ + + ~	ntonito grout	to ourfo		hrich (ho			r_{1}	- <u> </u>			
	<u>Teel D</u>	gs, cement-be		lo suna	<u></u>								
		ć	eval	ding	$ \uparrow$	ts							
	ls Incrit	le No	le Int	Rea(ppm)	/ery	Coun	(ft)		LITHOLOGY	Y/REMARKS			
Well	Cons Detai	Samp	Samp	DIA	Reco	3low Odor	Dept						
	°C VC												
	ank F				-		1-		0- 3' (CL) SANDY CLAY: Dark yellow 75- 85% fines, 15-25% fine to medium	vish-brown, moist; medium stiff, a sand.			
	0 Bla		н		-		_						
	ule 4		ÂĞ				2-						
	hedu				-		3-						
	h Sc		ĸ		-				3-15' (SM) SILLY SAND : Olive brow 75% fine sand; 25% non-plasctic fines	in; mosit to wet; medium dense;			
	2-inc						4-	SM					
		MW-6.5'			$ \downarrow$	No 2	5-						
		14144-0.5			X	6	_						
			\land		\square	9	6						
			$\langle \rangle$			17	7-						
	PVc		\backslash		\mathbb{V}	16	_						
	020)		\mathbf{X}		Ň	22	8-						
	d (0.		$\langle \rangle$		$\left(\right)$	28	9-		$\overline{}$				
	lotte		\backslash		\vee	12 17 No			Groundwater first encountered at ~	9.5' bgs			
S	40 SI	MW-6:10'	\land		Ň	17	10-						
A. N	alule		$\langle \rangle$		$\left(\right)$	22	11 -						
D	chec		\backslash		X	9 12							
	ch S				\square	17	12						
	2-in		\longleftrightarrow	 		19	13-						
			$ \setminus /$		\mathbb{N}	15 No 17	14						
					Ň	18							
		MW-6:15'	\angle	Į		19	15		Total Depth= 15	feet bgs			

PROJE	CT:	IES Oa	S OA Iklan	KLAN d, Ca	ID - 1409 12 [™] STREET lifornia	Log of Well No. MW-7			
BORIN	GLC		ION:	6' S, 6	' E of the NE corner of the property	GROUND SURFACE ELEVATION AND DATUM:			
DRILLI	NG (CON	FRAC	TOR:	Woodward Drilling Co	DATE STARTED: DATE FINISHED: 3/12/08 3/12/08			
DRILLI	NG	METH	IOD:	Hollo	w-stem auger	TOTAL DEPTH (ft.): SCREEN INTERVAL (ft.): 14.0 7.3-14.1			
DRILLI	NG E	EQUI	PMEN	NT: B	K-81	DEPTH TO FIRST COMPL. CASING: WATER: Note 3 NA 2" Sch. 40 PVC			
SAMPI	ING	MET	HOD	: Spl	t-spoon drive sampler [24" x 2"]	LOGGED BY: M. Gilmore			
HAMM	ER V	VEIG	HT:	140 II	DROP: 30 in.	RESPONSIBLE PROFESSIONAL: REG. NO. R. Schultz CHG 833			
EPTH (feet)	No.	mple	ows/ h	OVM eading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, stru cementation, react. w/HCl, geo. inter.	ICTURE, WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS			
	Sa	Sa	<u>а</u> п.	2	Surface Elevation: Not surveyed				
 1 2 - 3-					SILTY SAND (SM): brown (10YR 4/3), moist, 80	P%			
4 4 5- 6-	MW-3-6.0		22	0 0 0	fine to medium sand, 20% nonplastic fines wet CLAYEY SAND (SC): dark yellowish brown (10Y 4/3), moist, 60% fine sand, 40% low plasticity fine 80% fine to medium sand, 20% low plasticity fines	rR es s			
	64	X	52 50 5"	0 0	SILTY SAND (SM): dark greenish gray (10Y 4/1 moist, 80% fine to medium sand, 20% nonplastic), 2" diameter, 0.010" slot, Schedule 40 PVC screen			
9	-MM		53	0	brown (10YR 4/3), wet	Notes: 1. OVM = MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. 2. Hand augered to 5 feet bgs. Lithology described from auger cuttings.			
 12- 13- 14-	MW-7-14		62 10 14	0 0 0	Bottom of boring at 14.0 feet	3. Perched water encountered at 4.0 feet bgs.			
-					Bottom of boning at 14.0 reet	endcap with stainless			
15-									
			//@=	Geor		Project No. 14194.002 Page 1 of 1			

PROJE	ECT:	IES Oa	S OA klan	KLAND - d, Califor	1409 12 TH STREET nia	Log of Boring No. MW-8			
BORIN	GLO	CAT	ION:	30'E, 30	'S of NW corner of property	ELEVATION AND DAT	TUM:	a ground ourfood	
			-DAC		adward Drilling Co	DATE STARTED:		DATE FINISHED:	
						3/10/08		3/10/08	
DRILLI	NG M	ETH	IOD:	Hollow	r-stem auger	26.0		Ground surface	
DRILLI	NG E	QUII	PMEN	NT: BK-81		DEPTH TO WATER (ft.) FIF	RST COMPL.	
SAMPL	_ING I	MET	HOD	: Split-spo	on drive sampler [24" x 2"]	LOGGED BY: J. Smith			
HAMM	ER W	ΈIG	HT:	140 lbs	DROP: 30 in.	RESPONSIBLE PROF R. Schultz	ESSI	ONAL: REG. NO. CHG 833	
DEPTH (feet)	SAI No.	MPL amble		REMARKS					
	Ň	Š	8	R	Surface Elevation: Not su	rveyed			
_				-	ASPHALTIC CONCRETE : (2 feet thick)	brown (10YR 4/3)			
1-					moist, 55% fine to coarse gravel, 40% fine to coa	arse sand, 5% fines	-	calibrated with 100 ppm	
-					ורובן		-	isobutylene standard.	
2-					SII TY SAND (SM): yeny dark gravish brown (10	VR 3/2) moist 80%			
					fine sand, 20% low plasticity fines	TR 5/2), moist, 60 %	-		
3-							-	Hand augered to 5 feet	
-					۲.		-	bgs. Lithology described	
4-							-	from soil cuttings.	
					- olive brown (2.5Y 4/3) wet		-		
5-		\vdash		4.3	·		-	Perched water	
-		$\left \right\rangle$		252	-		-	encountered at 4.5 feet	
6-	8-6.5	· \			dark greenish gray (10Y 4/1), hydrocarbon odor		-	bys.	
-	MM		30	479			-		
7-		\vdash					-		
-									
8-							$\left - \right $		
-							-		
9-							-		
-							-		
10-	0	F		91.5			-		
-	8-11.0		50	108			-		
11-	-MM		5"				-		
-							-		
12-							-		
-							-		
13-							-		
-							-		
14-							-		
							-		
15-		<u>ا</u>				······		OAKBOREV (REV. 8/2007)	
				Geomatr	ix	Project No. 1	4194.	.002 Page 1 of 2	

PROJE	CT:	IES Oak	OA	KLAND - d, Califor	- 14 mia	D9 12 [™] STREET Log of	Boring No.	M	W-8 (cont'd)
DEPTH (feet)	Sample No.	Sample T	Blows/ 6	OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, cementation, react. w/HCl, geo. inter.	structure,		REMARKS
	-8-16.0	$\overline{\}$		8.6 0.5	╉	light olive brown (2.5Y 5/4), no odor		_	
16-	MM	\setminus	14	0.4 0.3		SILTY SAND (SM): cont'd		_	
17-									
- 19-								_	
 20	3-20.5			0.3					
- 21-	3-MM			1.1 0.7				_	
 22			20	0.3 0.9		· · ·		_	
23-				0.5 0.5				_	
24-	-25.0	\angle	50						
25	MW-8	X	<u>30</u> 4"						
26-	-					Bottom of boring at 26.0 feet			
27-				1					
- 29-								-	
	-				ľ			-	
31-	-								
32-									
33-	1				L				OAKBOREV (REV. 8/2007)
							Project No. 14	194.0	002 Page 2 of 2

IMPACT E	nvironmental		BORING LOG	Boring No Well No Sheet 1 of2
Site: 1409- 1417 ⁴ Client: MRS. SHIRLI Project Number: Date(s) Drilled: Date(s) Installed: Drilling Co./Driller: Drilling Summary: using 8-inch hollow (27- 20-feet, bgs), wellhead contained	12th ST. , OAKLAND, CA EY E. THOMPSON 03/10/08 03/13/08 WOODWARD DRILLING Conductor casing installed f /-stem augers. Install 2-inch of #2/12 filter sand from TD to 7 in concrete collar.	rom surface to 2 liameter ground 9 feet, bgs, ben	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: 20 feet bgs. Well boring advanced through co water monitoring well with Schedule 40 PVC of tonite pellets (coated) to 4feet bgs, cement-be	Hollow-Stem Auger 27' 14" from 0-20 ' bgs: 8' from 20-27' bgs nductor casing to 27 feet bgs casing and 0.010-inch slot screen entonite grout to surface. Christy box at
Well Construction Details Sample No.	Sample Interva PID Reading (ppm) Recovery Blow Counts	Odor Depth (ft)	LITHOLOG	GY/REMARKS
2-inch Schedule 40 Blank PVC	REFER TO GEOMATRIX BORING LOG FOR THIS INFORMATION_10" DIAMETER 0.25-INCH STEEL CONDUCTOR CASING SET FROM SURFACE TO 20 FEET BGS		GP 0- 2' (GP) POORLY GRADED GRA 3- 27' (SM) SILTY SAND_Continued brown; moist to wet; 80% fine sand; 2 ✓ Perched groundwater at ~4. ✓ Perched groundwater at ~4. Continued or Continued or	AVEL W/ SAND (FILL): d : Dark grayish brown to light olive 0% non-plasctic fines. 5' bgs

IMPACT Enviro	nmental		E	BORING LOG	Boring No. Well No. <u>MW-8</u> Sheet 1 of2_	
Site: 1409-1417 12th ST. Client: MRS. SHIRLEY E. THO Project Number: Date(s) Drilled: 03/10/00 Date(s) Installed: 03/13/00 Drilling Co./Driller: WOODV Drilling Summary: Conduct using 8-inch hollow-stem au (27-20-feet, bgs), #2/12 filte wellhead contained in concrete	OAKLAND, CA MPSON 3 3 VARD DRILLING or casing installed fr gers. Install 2-inch of r sand from TD to 1 ete collar.	om surface to diameter grou 9 feet, bgs, br	20 feet	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: t bgs. Well boring advanced through c r monitoring well with Schedule 40 PV(a pellets (coated) to 4feet bgs. cement-	Hollow-Stem Auger 27' 14" from 0-20 ' bgs: 8' from 20-27' bgs conductor casing to 27 feet bgs C casing and 0.010-inch slot screen bentonite grout to surface. Christy box at	
Construction Construction Details Sample No. Sample Interval	PID Reading (ppm) Recovery Blow Counts	Odor Depth (ft)		LITHOLOG	GY/REMARKS	
Zinden Schedule 40 Stored 10 020) PVG 2-inch Schedule 40 Blank PVG 2-inch Schedule 40 Blank PVG REFER TO GEOMATRIX BORING LOG FROM 0-26	INCH STEEL CONDUCTOR CASING SET FROM SURFACE TO 20 FEET BGS		3. 27' (SM) SILTY SAND_Continued : Dark grayish brown to light olivibrown; moist to wet; 80% fine sand; 20% non-plasctic fines. SM			
				Total Depth= 2	7 feet bgs	
					Date checked: October 1, 2008	

IMPACT Environment	al	E	BORING LOG	Boring No. Well No. <u>GW-1</u> Sheet 1 of1_
Site: 1409-1417 12th ST., OAKLAND, O Client: MRS. SHIRLEY E. THOMPSON Project Number: Date(s) Drilled: 04/03/08 Date(s) Installed: 04/03/08 Drilling Co./Driller: WOODWARD DRILLI Drilling Summary: Staright drill boring to with Schedule 40 PVC casing and 0.010-ir feet bgs, cement-bentonite grout to surface	ING target dept tach slot scr e. Christy b	oth using 10-inch ho reen (14- 6-feet, bo box at wellhead cor	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: DIIow-stem augers. Install 4-inch diameter (s), #2/12 filter sand from TD to 5 feet, both Intained in concrete collar. 4-inch blank S	Hollow-Stem Auger 17' 10" er groundwater monitoring well. gs. bentonite pellets (coated) to 4 Schedule 40 PVC sump set from 14-17 feet bgs.
Nell Details Sample No. ample nterval PID Reading (ppm)	Recovery Blow Counts	Jdor Depth (ft)	LITHOL	OGY/REMARKS
S G G G C C S G G G G C C S G G G G G G G S G </td <td></td> <td>□ □ □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 10 □ 11 □ 12 □ 13 □ 15 □ 16 □ 17</td> <td> 0- 3' (CL) SANDY CLAY: Dark yellow 75-85% fines, 15-25% fine to medium 3- 17' (SM) SILTY SAND: Olive brow 80% fine sand; 20% low plasticity fine ~6-15' Hydrocarbon odor. Olive soil from ~7 to 14 feet bgs. </td> <td>wish-brown, moist; medium stiff, n sand. /// m; mosit to wet; medium dense; // s. e-green to gray petroleum stained</td>		□ □ □ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 10 □ 11 □ 12 □ 13 □ 15 □ 16 □ 17	 0- 3' (CL) SANDY CLAY: Dark yellow 75-85% fines, 15-25% fine to medium 3- 17' (SM) SILTY SAND: Olive brow 80% fine sand; 20% low plasticity fine ~6-15' Hydrocarbon odor. Olive soil from ~7 to 14 feet bgs. 	wish-brown, moist; medium stiff, n sand. /// m; mosit to wet; medium dense; // s. e-green to gray petroleum stained
			Total Depth= 17	feet bgs

I	MP	PACT Environmental							E	BORING LOG	Boring No Well No Sheet 1 of1
5	Site:	1409- 1417 1	I2th ST. , OAI	KLAND	, CA					Ground Elevation:	
(Client:	MRS. SHIRLE	EY E. THOMPS	SON						T.O.C. Elevation:	
F	Project	Number:	0.1/00/00							Coordinates:	
	Date(s)	Drilled:	04/03/08							Drilling Method:	Hollow-Stem Auger
	Jate(s)	Installed:		וופח ח		2				Einel Parabala Diamatari	18
	Jinning	Co./Driller:	WOODWAR								
l	with S	Summary: Schedule 40 P	Advance bor VC casing and	d 0.010	-inch	<u>aeptr</u> slot s	screer	<u>g 10-inch</u> n (14- 6-fe	eet, bo	w-stem augers. Install 4-inch diameter c is), #2/12 filter sand from TD to 5 feet, b	gs, bentonite pellets (coated) to 4
	feet b	gs, cement-be	entonite grout	to surfa	<u>ce. (</u>	Christ	<u>y box</u>	at wellhe	ad cor	ntained in concrete collar. 4-inch blank \$	Schedule 40 PVC sump set from 14-17 feet bgs
Well	Construction Details	Sample No.	Sample nterval	PID Reading (ppm)	Recovery	Blow Counts	Ddor	Depth (ft)		LITHOL	OGY/REMARKS
	PVC									0- 3' (CL) SANDY CLAY: Dark yellow fines 15-25% fine to medium sand	vish-brown, moist; medium stiff, 75-85%
S A N D	d ⊠ ∩ S 1 Schedule 40 Stortsal (0.020) PVC 4-inch Schedule 40 Blan	GW-2:5'	H U A G D R	0 0 13 0		4 4 4 12 20 4 12 17 19 7 20 22 24 14 12 24 14 22 24 14 22 24 13 16 17 17 12 15 7 7 12	No No No No No No No No	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SM SP	 3-10.5' (SM) SILTY SAND w/ CLAY 70% fine sand; 30% low fines. ✓ Groundwater first encountered at 10.5-15.5 (SP) SAND : Dark yellowish fines. 15.5-18' SANDY CLAY: Dark yellowish fines; 40% fine to medium grain sand. 	* Olive brown; mosit to wet; medium dense; ~10' bgs -brown, wet; stiff; fine to medium sand. Trace
		GW-2:18'	\lor		/	20		18	illilli		
										Total Depth= 18	feet bgs

IMPACT E	Environmental	E	BORING LOG	Boring No Well No Sheet 1 of1
Site: 1409-1417 Client: MRS. SHIR Project Number: Date(s) Drilled: Date(s) Installed: Drilling Co./Driller: Drilling Summary: with Schedule 40	7 12th ST. , OAKLAND, CA LEY E. THOMPSON 03/13/08 03/13/08 WOODWARD DRILLING Advance boring with to target PVC casing and 0.010-inch slot	depth using 10-inch t	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: hollow-stem augers. Install 4-inch diameters), #2/12 filter sand from TD to 5 feet, bo	Hollow-Stem Auger 17' 10" ster groundwater monitoring well gs. bentonite pellets (coated) to 4
4eet bgs. cement- voustruction amble No.	bentonite grout to surface. Chris amble DID Reading (ppm) (ppm) (pom Counts	ty box at wellhead cor (1) ti op	ntained in concrete collar. 4-inch blank S	Schedule 40 PVC sump set from 14-17 feet bgs
A Inch Schedule 40 Blank PVC Co	C 0	8 9 No 5 Yes 1 1 1 1 1 1 1 1 1 No 5 SM 10 1 11 1 12 1 11 12 13 14 15 16 16 16	 0-3' (CL) SANDY CLAY: Dark yellow 75-85% fines, 15-25% fine to medium 3-17' (SM) SILTY SAND: Olive brown 75% fine sand; 25% low plasticity fines ~8-15' Hydrocarbon odor Color chate ✓ Groundwater first encountered at ~7 	vish-brown, moist; medium stiff, n sand. n; mosit to wet; medium dense; 3. inge to olive-green to greenish gray.
<u></u>		<u> </u>	Total Depth= 17	feet bgs

IMPACT Environmental	BORING LOG	Boring No. B - 16 Well No. N/A Sheet 1 of2_
Site: 1409- 1417 12th ST. , OAKLAND, CA Client: MRS. SHIRLEY E. THOMPSON Project Number: Date(s) Drilled: 3/6/2008 Date(s) Installed: 3/6/2008 Drilling Co./Driller WOODWARD DRILLING Drilling Summary: Direct-push 4-long core barre cores selected for laboratory analysis and u Collect groundwater grab sample using disp	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: I to target depth . Collect cores in butyrate liners for loggin test teflon liners and end caps to seal sample. Place sample posable bailers. Backfill soil boring using neat cement gro	Direct Push-EnviroCore 24 8" ng. Cut 6" length ple in plastic zip-lock bag. ut.
Sample No. Sample Interval PID Reading Recovery Sampler	Odor Grapht (ft) Graphic Log	DGY/REMARKS
Image: strain of the strain	1 0-4' SANDY CLAY: Dark yellowish-the plasticity, 15-25% fine to medium sar 1 - 2 - 3 - 4 - No 5 5 SM 4 - - - <td>e-green to gray petroleum 3' bgs</td>	e-green to gray petroleum 3' bgs
B-16: 20'	19 20 Continued or	n next Page

IMPACT Environmental		E	BORING LOG	Boring No. B-16 Well No. N/A Sheet 2 of2_
Site: 1409- 1417 12th ST. , OAKLAND, CA Client: MRS. SHIRLEY E. THOMPSON Project Number: Date(s) Drilled: 3/6/2008 Date(s) Installed: 3/6/2008 Drilling Co./Driller: WOODWARD DRILLING Drilling Summary: Direct-push 4'-long sampler to cores selected for laboratory analysis and us Collect groundwater grab sample using disp	o target depth. se teflon liners osable bailers.	Collec and en Backf	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: t cores in butyrate liners for logging. Cut d caps to seal sample. Place sample in ill soil boring using neat cement grout.	Direct Push-EnviroCore 24 2.5" t 6" length a plastic zip-lock bag.
Sample No. Sample Interval PID Reading Recovery Sampler	Odor Depth (ft)	Graphic Log		
	No 21 No 22 No 23 24 24	SM	4-24' SILTY SAND (SM)_Continued : moderate reddish- brown; moist to we non-plastic fines. Total Depth of Boring= :	Moderate yellowish-brown to t; 80% fine to medium sand, 20% 24 feet bgs
Logged by: Joseph Cotton				Date checked: October 1, 2008

J:\Thompson\Well Installation\Report\Tables\LOGS\1409_MWell Logs_FINAL

IMPACT Enviror	nme	nta			E	BORING LOG	Boring No. B - 17 Well No. N/A Sheet 1 of <u>2</u>
Site: 1409- 1417 12th ST. , OAKLAND, CA Client: MRS. SHIRLEY E. THOMPSON Project Number: Date(s) Drilled: 3/7/2008 Date(s) Installed: 3/7/2008 Drilling Co./Driller WOODWARD DRILLING Drilling Summary: Direct-push 4'-long sampler to target depth cores selected for laboratory analysis and use teflon line				get dept	th . Co ers and	Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: Ilect cores in butyrate liners for logging end caps to seal sample. Place samp ckfill soil boring using peat cement gro	Direct Push-EnviroCore 25 2.5" I. Cut 6" length ole in plastic zip-lock bag.
Sample No.	PID Reading	Recovery	Odor	Depth (ft)	Graphic Log	LITHOLC	DGY/REMARKS
B-17: 10' B-17: 10' B-17: 10' B-17: 10' B-17: 10' B-17: 10' B-17: 20'			 No No No No No No No No No Yes Yes No 		SM	 O- 4' SANDY CLAY: Dark yellowish-transformed plasticicity, 15-25% fine to medium sar 4- 25' SILTY SAND (SM): Moderate brown; moist to wet; 80% fine to medium sar ✓ Groundwater first encountered at -S Slight Hydrocarbon odor from 11- Slight Hydrocarbon odor from 11- 	nown, moist; non-plastic to low nd. e yellowish-brown to moderate reddish- dium sand, 20% non-plastic fines. 9.5' bgs 13' bgs

IMPACT Environmental		E	BORING LOG	Boring No. B-17 Well No. N/A Sheet 2 of2_
Site: 1409- 1417 12th ST. , OAKLAND, CA	•		Ground Elevation:	
Client: MRS. SHIRLEY E. THOMPSON			T.O.C. Elevation:	
Project Number:			Coordinates:	
Date(s) Drilled: 3/7/2008			Drilling Method:	Direct Push-EnviroCore
Date(s) Installed: 3/7/2008			Borehole Total Depth:	25
Drilling Co./Driller: WOODWARD DRILLING			Final Borehole Diameter:	2.5"
Drilling Summary: Direct-push 4'-long sampler to	target depth	Collec	t cores in butyrate liners for logging. Cu	<u>ut 6" leng</u> th
cores selected for laboratory analysis and us	se teflon liners	and en	d caps to seal sample. Place sample in	n plastic zip-lock bag.
Collect groundwater grab sample using disp	osable bailers.	Backf	ill soil boring using neat cement grout.	
. go		-og		
very very	(#) 1	hic L		
Sami ntern ntern sami	Dept	Grap		
)	4-25' SILTY SAND (SM) Continued	Modorato vollowish brown to
	No 21 -	SM	moderate reddish- brown; moist to we	t; 80% fine to medium sand, 20%
			non-plastic fines.	
	22-			
	23			
	No 24			
	25-		Total Depth of Borine	g= 25 feet bgs
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				Data abaaliadi Ostabar 1, 2008

APPENDIX C

<u>Certified Laboratory Analytical Report</u>



March 11, 2008

Mr. Joseph Cotton Impact Environmental Services 39120 Arogonat Way, Suite 223 Fremont, CA 94538

TEL: 510-703-5420 FAX: 510-713-7790

RE:

Dear Mr. Joseph Cotton:

Order No.: 0803052

Torrent Laboratory, Inc. received 15 samples on 3/7/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

3/1/08 Laboratory Director Date

Patti Sandrock QA Officer



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 3/7/2008 **Date Reported:** 3/11/2008

Client Sample ID:	B-16:5'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/6/2008 1:00:00 PM

Lab Sample ID: 0803052-001 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	1	28-125	104	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/10/2008	5	1	5.0	ND	μg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Xylenes, Total	SW8260B	3/10/2008	15	1	15	ND	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	1	55.8-141	104	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	1	59.8-148	117	%REC	R15616
Surr: Toluene-d8	SW8260B	3/10/2008	0	1	55.2-133	94.0	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	100	1	100	ND	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	1	56.9-133	96.0	%REC	G15616

Client Sample ID:	B-16:8'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/6/2008 1:20:00 PM

Lab Sample ID: 0803052-002 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	10	20.0	240x	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	10	40.0	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	10	28-125	91.8	%REC	R15611

Note: x-Sample chromatogram does not resemble typical diesel pattern (possibly fuel lighter than diesel). Lighter end hydrocarbons within the diesel range quantitated as diesel.

1,2-Dibromoethane (EDB)	SW8260B	3/11/2008	5	2000	10000	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/11/2008	5	2000	10000	ND	µg/Kg	R15616
Benzene	SW8260B	3/11/2008	5	2000	10000	13000	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	2000	10000	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	2000	10000	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	2000	10000	110000	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	2000	20000	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/11/2008	50	2000	100000	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/11/2008	5	2000	10000	ND	µg/Kg	R15616
Toluene	SW8260B	3/11/2008	5	2000	10000	180000	µg/Kg	R15616
Xylenes, Total	SW8260B	3/11/2008	15	2000	30000	520000	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/11/2008	0	2000	55.8-141	111	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/11/2008	0	2000	59.8-148	102	%REC	R15616
Surr: Toluene-d8	SW8260B	3/11/2008	0	2000	55.2-133	102	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/11/2008	100	2000	200000	4700000	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/11/2008	0	2000	56.9-133	88.0	%REC	G15616

Client Sample ID:	B-16:10'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/6/2008 1:40:00 PM

Lab Sample ID: 0803052-003 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	1	28-125	104	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/10/2008	5	1	5.0	7.9	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/10/2008	5	1	5.0	6.6	µg/Kg	R15616
Xylenes, Total	SW8260B	3/10/2008	15	1	15	26	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	1	55.8-141	103	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	1	59.8-148	118	%REC	R15616
Surr: Toluene-d8	SW8260B	3/10/2008	0	1	55.2-133	96.5	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	100	1	100	116x	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	1	56.9-133	88.0	%REC	G15616

Note:x- Pattern does not match typical gasoline. TPHg result due to the presence of non-target compounds within gasoline range.

B-16:13'
1409-1417 12th St, Oakland
SOIL
3/6/2008 2:30:00 PM

E

Lab Sample ID: 0803052-005 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	1	2.00	60.1x	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	1	28-125	91.9	%REC	R15611
Note: x-Sample chromatogram does not diesel range quantitated as diesel.	resemble typical di	esel pattern (poss	ibly fuel ligh	nter than diese	el). Lighter e	end hydrocarbo	ons within the	
1,2-Dibromoethane (EDB)	SW8260B	3/11/2008	5	5	25	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/11/2008	5	5	25	ND	µg/Kg	R15616
Benzene	SW8260B	3/11/2008	5	5	25	170	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	5	25	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	5	25	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	5	25	80	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	5	50	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/11/2008	50	5	250	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/11/2008	5	5	25	ND	µg/Kg	R15616
Toluene	SW8260B	3/11/2008	5	5	25	77	µg/Kg	R15616
Xylenes, Total	SW8260B	3/11/2008	15	5	75	300	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/11/2008	0	5	55.8-141	114	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/11/2008	0	5	59.8-148	102	%REC	R15616
Surr: Toluene-d8	SW8260B	3/11/2008	0	5	55.2-133	94.8	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/11/2008	100	5	500	2300	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/11/2008	0	5	56.9-133	96.0	%REC	G15616

Note: TPH value includes amount of non-target compounds within gasoline quantitative range.

B-16:15'
1409-1417 12th St, Oakland
SOIL
3/6/2008 3:00:00 PM

t-Butyl alcohol (t-Butanol)

Toluene

Xylenes, Total

TPH (Gasoline)

Surr: Toluene-d8

tert-Amyl methyl ether (TAME)

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: 4-Bromofllurobenzene

Lab Sample ID: 0803052-006 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	1	2.00	16.9x	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	1	28-125	98.2	%REC	R15611
diesel range quantitated as diesel. 1,2-Dibromoethane (EDB) 1,2 Displaraethana (EDC)	SW8260B	3/11/2008	5 5	200	1000	ND	µg/Kg	R15616
	SWOZOUD	3/11/2008	5	200	1000	2200	µg/Kg	R 13010
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	200	1000	2300 ND	μg/Kg μg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	200	1000	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	200	1000	16000	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	200	2000	ND	µg/Kg	R15616

50

5

5

15

0

0

0

100

0

200

200

200

200

200

200

200

2000

2000

10000

1000

1000

3000

55.8-141

59.8-148

55.2-133

200000

56.9-133

ND

ND

7700

52000

107

95.1

102

520000

96.0

µg/Kg

µg/Kg

µg/Kg

µg/Kg

%REC

%REC

%REC

µg/Kg

%REC

R15616

R15616

R15616

R15616

R15616

R15616

R15616

G15616

G15616

Note: Although TPH as gasoline is present, result is elevated due to the presence of non-target compounds within gasoline range.

3/11/2008

3/11/2008

3/11/2008

3/11/2008

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3/11/2008

3/11/2008

3/11/2008

SW8260B

SW8260B

SW8260B

SW8260B

SW8260B

SW8260B

SW8260B

SW8260B(TPH)

SW8260B(TPH)

Client Sample ID:	B-16:20'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/6/2008 3:30:00 PM

Lab Sample ID: 0803052-007 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	1	28-125	106	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/10/2008	5	1	5.0	25	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/10/2008	5	1	5.0	32	µg/Kg	R15616
Xylenes, Total	SW8260B	3/10/2008	15	1	15	120	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	1	55.8-141	120	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	1	59.8-148	111	%REC	R15616
Surr: Toluene-d8	SW8260B	3/10/2008	0	1	55.2-133	95.3	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	100	1	100	1134x	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	1	56.9-133	96.0	%REC	G15616

Note:x- Pattern does not match typical gasoline. TPHg result due to the presence of non-target compounds within gasoline range.

Client Sample ID:	B-16:22'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/6/2008 4:00:00 PM

Lab Sample ID: 0803052-008 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/10/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/10/2008	0	1	28-125	94.6	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/10/2008	5	1	5.0	8.2	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/10/2008	5	1	5.0	27	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/10/2008	5	1	5.0	49	µg/Kg	R15616
Xylenes, Total	SW8260B	3/10/2008	15	1	15	130	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	1	55.8-141	106	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	1	59.8-148	115	%REC	R15616
Surr: Toluene-d8	SW8260B	3/10/2008	0	1	55.2-133	97.3	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	100	1	100	740	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	1	56.9-133	92.0	%REC	G15616

Note: Although TPH as gasoline is present, result is elevated due to the presence of non-target compounds within gasoline range.

Client Sample ID:	B-16:GW
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	WATER
Date/Time Sampled	3/6/2008 3:15:00 PM

Lab Sample ID: 0803052-009 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/11/2008	0.1	20	2.34	14.8x	mg/L	R15613
TPH (Motor Oil-SG)	SW8015B	3/11/2008	0.2	20	4.68	ND	mg/L	R15613
Surr: Pentacosane	SW8015B	3/11/2008	0	20	40-120	80.0	%REC	R15613

Note: x-Sample chromatogram does not resemble typical diesel pattern (possibly fuel lighter than diesel). Lighter end hydrocarbons within the diesel range quantitated as diesel.

1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	0.5	8.8	4.40	64.2	µg/L	R15612
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	0.5	8.8	4.40	103	µg/L	R15612
Benzene	SW8260B	3/10/2008	0.5	110	55.0	6820	µg/L	R15612
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	0.5	8.8	4.40	ND	µg/L	R15612
Ethylbenzene	SW8260B	3/10/2008	0.5	110	55.0	3360	µg/L	R15612
Isopropyl Ether	SW8260B	3/10/2008	0.5	8.8	4.40	ND	µg/L	R15612
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	0.5	8.8	4.40	ND	µg/L	R15612
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	10	8.8	88.0	ND	µg/L	R15612
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	0.5	8.8	4.40	ND	µg/L	R15612
Toluene	SW8260B	3/10/2008	0.5	110	55.0	9410	µg/L	R15612
Xylenes, Total	SW8260B	3/10/2008	1.5	110	165	17400	µg/L	R15612
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	8.8	61.2-131	88.4	%REC	R15612
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	110	61.2-131	89.4	%REC	R15612
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	8.8	64.1-120	76.4	%REC	R15612
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	110	64.1-120	79.8	%REC	R15612
Surr: Toluene-d8	SW8260B	3/10/2008	0	8.8	75.1-127	86.8	%REC	R15612
Surr: Toluene-d8	SW8260B	3/10/2008	0	110	75.1-127	96.9	%REC	R15612
								_
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	50	110	5500	130000	µg/L	G15612
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	110	58.4-133	104	%REC	G15612

Note: Although TPH as Gasoline constituents are present, results are elevated due to the presence of non-target compounds within the gasoline range.

Client Sample ID:	B-17:GW
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	WATER
Date/Time Sampled	3/7/2008 1:00:00 PM

Lab Sample ID: 0803052-010 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/10/2008	0.1	1	0.100	ND	mg/L	R15613
TPH (Motor Oil-SG)	SW8015B	3/10/2008	0.2	1	0.200	ND	mg/L	R15613
Surr: Pentacosane	SW8015B	3/10/2008	0	1	40-120	93.0	%REC	R15613
1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	0.5	1	0.500	ND	µg/L	R15612
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	0.5	1	0.500	ND	µg/L	R15612
Benzene	SW8260B	3/10/2008	0.5	1	0.500	ND	μg/L	R15612
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	0.5	1	0.500	ND	µg/L	R15612
Ethylbenzene	SW8260B	3/10/2008	0.5	1	0.500	0.500	µg/L	R15612
Isopropyl Ether	SW8260B	3/10/2008	0.5	1	0.500	ND	µg/L	R15612
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	0.5	1	0.500	ND	µg/L	R15612
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	10	1	10.0	ND	µg/L	R15612
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	0.5	1	0.500	ND	µg/L	R15612
Toluene	SW8260B	3/10/2008	0.5	1	0.500	0.930	µg/L	R15612
Xylenes, Total	SW8260B	3/10/2008	1.5	1	1.50	1.56	µg/L	R15612
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	1	61.2-131	85.6	%REC	R15612
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	1	64.1-120	93.4	%REC	R15612
Surr: Toluene-d8	SW8260B	3/10/2008	0	1	75.1-127	92.6	%REC	R15612
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	50	1	50	ND	µg/L	G15612
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	1	58.4-133	93.1	%REC	G15612

B-17:5'
1409-1417 12th St, Oakland
SOIL
3/7/2008 10:00:00 AM

Lab Sample ID: 0803052-011 Date Prepared: 3/10/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/11/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/11/2008	4	1	4.00	29.2	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/11/2008	0	1	28-125	83.2	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/10/2008	5	1	5.0	ND	μg/Kg	R15616
Benzene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/10/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/10/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/10/2008	5	1	5.0	ND	µg/Kg	R15616
Xylenes, Total	SW8260B	3/10/2008	15	1	15	ND	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/10/2008	0	1	55.8-141	119	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/10/2008	0	1	59.8-148	108	%REC	R15616
Surr: Toluene-d8	SW8260B	3/10/2008	0	1	55.2-133	94.8	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/10/2008	100	1	100	ND	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/10/2008	0	1	56.9-133	80.0	%REC	G15616
Client Sample ID:	B-17:10'							
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Sample Location:	1409-1417 12th St, Oakland							
Sample Matrix:	SOIL							
Date/Time Sampled	3/7/2008 11:00:00 AM							

Lab Sample ID: 0803052-012 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/11/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/11/2008	4	1	4.00	4.16	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/11/2008	0	1	28-125	98.8	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/11/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Xylenes, Total	SW8260B	3/11/2008	15	1	15	ND	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/11/2008	0	1	55.8-141	117	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/11/2008	0	1	59.8-148	83.2	%REC	R15616
Surr: Toluene-d8	SW8260B	3/11/2008	0	1	55.2-133	88.4	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/11/2008	100	1	100	ND	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/11/2008	0	1	56.9-133	84.0	%REC	G15616

Client Sample ID:	B-17:15
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/7/2008 12:00:00 PM

Lab Sample ID: 0803052-013 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/11/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/11/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/11/2008	0	1	28-125	106	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/11/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Xylenes, Total	SW8260B	3/11/2008	15	1	15	ND	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/11/2008	0	1	55.8-141	108	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/11/2008	0	1	59.8-148	109	%REC	R15616
Surr: Toluene-d8	SW8260B	3/11/2008	0	1	55.2-133	91.4	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/11/2008	100	1	100	ND	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/11/2008	0	1	56.9-133	82.0	%REC	G15616

Client Sample ID:	B-17:20'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/7/2008 1:30:00 PM

Lab Sample ID: 0803052-014 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/11/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/11/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/11/2008	0	1	28-125	100	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/11/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Xylenes, Total	SW8260B	3/11/2008	15	1	15	ND	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/11/2008	0	1	55.8-141	108	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/11/2008	0	1	59.8-148	87.0	%REC	R15616
Surr: Toluene-d8	SW8260B	3/11/2008	0	1	55.2-133	90.2	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/11/2008	100	1	100	ND	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/11/2008	0	1	56.9-133	84.0	%REC	G15616

Client Sample ID:	B-17:25'
Sample Location:	1409-1417 12th St, Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/7/2008 2:00:00 PM

Lab Sample ID: 0803052-015 Date Prepared: 3/10/2008-3/11/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/11/2008	2	1	2.00	ND	mg/Kg	R15611
TPH (Motor Oil-SG)	SW8015B	3/11/2008	4	1	4.00	ND	mg/Kg	R15611
Surr: Pentacosane	SW8015B	3/11/2008	0	1	28-125	110	%REC	R15611
1,2-Dibromoethane (EDB)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
1,2-Dichloroethane (EDC)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Benzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Diisopropyl ether (DIPE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethyl tert-butyl ether (ETBE)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Ethylbenzene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Methyl tert-butyl ether (MTBE)	SW8260B	3/11/2008	10	1	10	ND	µg/Kg	R15616
t-Butyl alcohol (t-Butanol)	SW8260B	3/11/2008	50	1	50	ND	µg/Kg	R15616
tert-Amyl methyl ether (TAME)	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Toluene	SW8260B	3/11/2008	5	1	5.0	ND	µg/Kg	R15616
Xylenes, Total	SW8260B	3/11/2008	15	1	15	ND	µg/Kg	R15616
Surr: 4-Bromofluorobenzene	SW8260B	3/11/2008	0	1	55.8-141	116	%REC	R15616
Surr: Dibromofluoromethane	SW8260B	3/11/2008	0	1	59.8-148	91.2	%REC	R15616
Surr: Toluene-d8	SW8260B	3/11/2008	0	1	55.2-133	89.0	%REC	R15616
TPH (Gasoline)	SW8260B(TPH)	3/11/2008	100	1	100	ND	µg/Kg	G15616
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/11/2008	0	1	56.9-133	86.0	%REC	G15616

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

Date: *11-Mar-08*

CLIENT: Impact Environmental Services 0803052

Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: G15612

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 3/10/2008	RunNo: 15612		
Client ID: ZZZZZ	Batch ID: G15612	TestNo: SW8260B(TP	Analysis Date: 3/10/2008	SeqNo: 224188		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	ND	50				
Surr: 4-Bromofllurobenzene	8.100	0 11.36 0	71.3 58.4 133			
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 3/10/2008	RunNo: 15612		
Client ID: ZZZZZ	Batch ID: G15612	TestNo: SW8260B(TP	Analysis Date: 3/10/2008	SeqNo: 224198		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	253.8	50 227 0	112 52.4 127			
Surr: 4-Bromofllurobenzene	12.80	0 11.36 0	113 58.4 133			
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 3/10/2008	RunNo: 15612		
Client ID: ZZZZZ	Batch ID: G15612	TestNo: SW8260B(TP	Analysis Date: 3/10/2008	SeqNo: 224199		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	217.4	50 227 0	95.8 52.4 127 253.8	15.4 20		
Surr: 4-Bromofllurobenzene	12.00	0 11.36 0	106 58.4 133 0	0 0		

Qualifiers:

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Impact Environmental Services

ANALYTICAL QC SUMMARY REPORT

BatchID: G15616

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/10/2008	RunNo: 15616		
Client ID: ZZZZZ	Batch ID: G15616	TestNo: SW8260B(TP	Analysis Date: 3/10/2008	SeqNo: 224164		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	ND	100				
Surr: 4-Bromofllurobenzene	49.00	0 50 0	98.0 56.9 133			
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/10/2008	RunNo: 15616		
Client ID: ZZZZZ	Batch ID: G15616	TestNo: SW8260B(TP	Analysis Date: 3/10/2008	SeqNo: 224165		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	998.0	100 1000 19	97.9 48.2 132			
Surr: 4-Bromofllurobenzene	50.00	0 50 0	100 56.9 133			
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/11/2008	RunNo: 15616		
Client ID: ZZZZZ	Batch ID: G15616	TestNo: SW8260B(TP	Analysis Date: 3/11/2008	SeqNo: 224166		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	909.0	100 1000 19	89.0 48.2 132 998	9.33 30		
Surr: 4-Bromofllurobenzene	49.00	0 50 0	98.0 56.9 133 0	0 0		

Project:

CLIENT:

Work Order:

0803052

ANALYTICAL QC SUMMARY REPORT

BatchID: R15611

Sample ID: SDSG080310A-MB	SampType: MBLK	TestCode: TPHDOSG_S Units: mg/Kg		Prep Date: 3/10/2008				RunNo: 15611		
Client ID: ZZZZZ	Batch ID: R15611	TestNo: SW8015B			Analysis Date	e: 3/10/2008		SeqNo: 224100		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	D Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	ND	2.00								
TPH (Motor Oil-SG)	ND	4.00								
Surr: Pentacosane	4.115	0 3.3	0	125	28	125				
Sample ID: SDSG080310A-LCS	SampType: LCS	TestCode: TPHDOSG	S Units: mg/Kg		Prep Date	e: 3/10/2008		RunNo: 156	511	
Client ID: ZZZZZ	Batch ID: R15611	TestNo: SW8015B			Analysis Date	e: 3/10/2008		SeqNo: 224	101	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	D Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	29.38	2.00 33.33	0	88.1	26.6	128				
Surr: Pentacosane	3.135	0 3.3	0	95.0	28	125				
Sample ID: SDSG080310A-LCS	SampType: LCSD	TestCode: TPHDOSG	S Units: mg/Kg		Prep Date	e: 3/10/2008		RunNo: 156	511	
Client ID: ZZZZZ	Batch ID: R15611	TestNo: SW8015B			Analysis Date	e: 3/10/2008		SeqNo: 224	102	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	D Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	33.62	2.00 33.33	0	101	26.6	128	29.38	13.5	30	

Project:

CLIENT:

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: R15612

Sample ID: MB	SampType: MBLK	TestCo	de: 8260B_W	Units: µg/L		Prep Da	te: 3/10/20	800	RunNo: 156	612	
Client ID: ZZZZZ	Batch ID: R15612	Test	No: SW8260B			Analysis Da	te: 3/10/20	008	SeqNo: 224	115	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.360									
1,2-Dichloroethane (EDC)	ND	0.360									
Benzene	ND	0.340									
Ethyl tert-butyl ether (ETBE)	ND	0.420									
Ethylbenzene	ND	0.250									
Methyl tert-butyl ether (MTBE)	ND	0.390									
t-Butyl alcohol (t-Butanol)	1.650	1.50									
tert-Amyl methyl ether (TAME)	ND	0.320									
Toluene	ND	0.300									
Xylenes, Total	ND	0.770									
Surr: Dibromofluoromethane	10.45	0.395	11.36	0	92.0	61.2	131				
Surr: 4-Bromofluorobenzene	10.57	0.498	11.36	0	93.0	64.1	120				
Surr: Toluene-d8	11.27	0.531	11.36	0	99.2	75.1	127				
Sample ID: LCS	SampType: LCS	TestCo	de: 8260B_W	Units: µg/L		Prep Da	te: 3/10/20	008	RunNo: 156	612	
Client ID: ZZZZZ	Batch ID: R15612	Test	No: SW8260B			Analysis Da	te: 3/10/20	800	SeqNo: 224	117	
Client ID: ZZZZZ Analyte	Batch ID: R15612 Result	TestN PQL	No: SW8260B SPK value	SPK Ref Val	%REC	Analysis Da LowLimit	te: 3/10/20 HighLimit	008 RPD Ref Val	SeqNo: 224 %RPD	1117 RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene	Batch ID: R15612 Result 15.65	TestN PQL 0.500	No: SW8260B SPK value 17.04	SPK Ref Val	%REC 91.8	Analysis Da LowLimit 66.9	te: 3/10/20 HighLimit 140	008 RPD Ref Val	SeqNo: 224 %RPD	I 117 RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene	Batch ID: R15612 Result 15.65 17.66	TestM PQL 0.500 0.500	No: SW8260B SPK value 17.04 17.04	SPK Ref Val 0 0	%REC 91.8 104	Analysis Da LowLimit 66.9 76.6	te: 3/10/20 HighLimit 140 123	008 RPD Ref Val	SeqNo: 224 %RPD	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane	Batch ID: R15612 Result 15.65 17.66 9.240	Testh PQL 0.500 0.500 0	No: SW8260B SPK value 17.04 17.04 11.36	SPK Ref Val 0 0 0	%REC 91.8 104 81.3	Analysis Da LowLimit 66.9 76.6 61.2	te: 3/10/20 HighLimit 140 123 131	008 RPD Ref Val	SeqNo: 224 %RPD	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene	Batch ID: R15612 Result 15.65 17.66 9.240 10.63	Testh PQL 0.500 0.500 0 0 0	No: SW8260B SPK value 17.04 17.04 11.36 11.36	SPK Ref Val 0 0 0 0	%REC 91.8 104 81.3 93.6	Analysis Da LowLimit 66.9 76.6 61.2 64.1	te: 3/10/20 HighLimit 140 123 131 120	008 RPD Ref Val	SeqNo: 224 %RPD	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8	Batch ID: R15612 Result 15.65 17.66 9.240 10.63 11.24	Testh PQL 0.500 0.500 0 0 0 0	No: SW8260B SPK value 17.04 17.04 11.36 11.36 11.36	SPK Ref Val 0 0 0 0 0	%REC 91.8 104 81.3 93.6 98.9	Analysis Da LowLimit 66.9 76.6 61.2 64.1 75.1	te: 3/10/20 HighLimit 140 123 131 120 127	008 RPD Ref Val	SeqNo: 224 %RPD	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID: LCSD	Batch ID: R15612 Result 15.65 17.66 9.240 10.63 11.24 SampType: LCSD	Testh PQL 0.500 0.500 0 0 0 0 TestCoo	No: SW8260B SPK value 17.04 17.04 11.36 11.36 11.36 de: 8260B_W	SPK Ref Val 0 0 0 0 0 0 Units: μg/L	%REC 91.8 104 81.3 93.6 98.9	Analysis Da LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Da	te: 3/10/20 HighLimit 140 123 131 120 127 te: 3/10/20	008 RPD Ref Val	SeqNo: 224 %RPD RunNo: 156	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID: LCSD Client ID: ZZZZZ	Batch ID: R15612 Result 15.65 17.66 9.240 10.63 11.24 SampType: LCSD Batch ID: R15612	Testh PQL 0.500 0.500 0 0 0 0 0 TestCoo Testh	No: SW8260B SPK value 17.04 17.04 11.36 11.36 11.36 de: 8260B_W No: SW8260B	SPK Ref Val 0 0 0 0 0 0 0 Units: μg/L	%REC 91.8 104 81.3 93.6 98.9	Analysis Da LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Da Analysis Da	te: 3/10/20 HighLimit 140 123 131 120 127 te: 3/10/20 te: 3/10/20	008 RPD Ref Val 008 008	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224	RPDLimit RPDLimit 512 1118	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID: LCSD Client ID: ZZZZZ Analyte	Batch ID: R15612 Result 15.65 17.66 9.240 10.63 11.24 SampType: LCSD Batch ID: R15612 Result	Testh PQL 0.500 0.500 0 0 0 TestCoo Testh PQL	No: SW8260B SPK value 17.04 17.04 11.36 11.36 11.36 de: 8260B_W No: SW8260B SPK value	SPK Ref Val 0 0 0 0 0 0 0 Units: µg/L SPK Ref Val	%REC 91.8 104 81.3 93.6 98.9 %REC	Analysis Da LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Da Analysis Da LowLimit	te: 3/10/20 HighLimit 140 123 131 120 127 te: 3/10/20 HighLimit	008 RPD Ref Val 008 008 RPD Ref Val	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD	RPDLimit RPDLimit 612 H118 RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID: LCSD Client ID: ZZZZZ Analyte Benzene	Batch ID: R15612 Result 15.65 17.66 9.240 10.63 11.24 SampType: LCSD Batch ID: R15612 Result 16.70	Testh PQL 0.500 0 0 0 0 TestCod Testh PQL 0.500	No: SW8260B SPK value 17.04 17.04 11.36 11.36 11.36 de: 8260B_W No: SW8260B SPK value 17.04	SPK Ref Val 0 0 0 0 0 Units: μg/L SPK Ref Val 0	%REC 91.8 104 81.3 93.6 98.9 %REC 98.0	Analysis Da LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Da Analysis Da LowLimit 66.9	te: 3/10/20 HighLimit 140 123 131 120 127 te: 3/10/20 HighLimit 140	008 RPD Ref Val 008 008 RPD Ref Val 15.65	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD 6.49	1117 RPDLimit 512 1118 RPDLimit 20	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID: LCSD Client ID: ZZZZZ Analyte Benzene Toluene	Batch ID: R15612 Result 15.65 17.66 9.240 10.63 11.24 SampType: LCSD Batch ID: R15612 Result 16.70 14.80	Testh PQL 0.500 0 0 0 0 0 TestCoo Testh PQL 0.500 0.500	No: SW8260B SPK value 17.04 17.04 11.36 11.36 de: 8260B_W No: SW8260B SPK value 17.04 17.04	SPK Ref Val 0 0 0 0 0 0 0 0 0 ΣPK Ref Val 0 0 0	%REC 91.8 104 81.3 93.6 98.9 %REC 98.0 86.9	Analysis Da LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Da Analysis Da LowLimit 66.9 76.6	te: 3/10/20 HighLimit 140 123 131 120 127 te: 3/10/20 te: 3/10/20 HighLimit 140 123	008 RPD Ref Val 008 008 RPD Ref Val 15.65 17.66	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD 6.49 17.6	1117 RPDLimit 312 1118 RPDLimit 20 20	Qual

Qualifiers:

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Recovery of the MS and/or MSD was out of control due t 4 RPD outside accepted recovery limits

The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result

Spike Recovery outside accepted recovery limits S

CLIENT: Impact Environmental Services Work Order: 0803052 **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: R15612

Sample ID: LCSD	SampType: LCSD	TestCoc	le: 8260B_W	Units: µg/L		Prep Da	te: 3/10/20	08	RunNo: 156	612 1118	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.890	0	11.36	0	87.1	64.1	120	0	0	0	

Qualifiers:

S

ANALYTICAL QC SUMMARY REPORT

BatchID: R15613

Sample ID: WDSG080310A-MB	SampType: MBLK	TestCode: TPHDOSG_W Units: mg/L				Prep Dat	e: 3/10/20	08	RunNo: 15613		
Client ID: ZZZZZ	Batch ID: R15613	TestNo: S	SW8015B			Analysis Dat	e: 3/10/20	08	SeqNo: 224	4123	
Analyte	Result	PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	ND	0.100									
TPH (Motor Oil-SG)	ND	0.200									
Surr: Pentacosane	0.09900	0	0.1	0	99.0	40	120				
Sample ID: WDSG080310A-LCS	SampType: LCS	TestCode: 1	TPHDOSG	_W Units: mg/L		Prep Dat	e: 3/10/20	08	RunNo: 156	613	
Client ID: ZZZZZ	Batch ID: R15613	TestNo: S	SW8015B			Analysis Dat	e: 3/10/20	08	SeqNo: 224	4124	
Analyte	Result	PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	0.3330	0.100	1	0	33.3	30	68.5				
Surr: Pentacosane	0.1040	0	0.1	0	104	46.8	104				
Sample ID: WDSG080310A-LCS	SampType: LCSD	TestCode: 1	TPHDOSG	_W Units: mg/L		Prep Dat	e: 3/10/20	08	RunNo: 156	613	
Client ID: ZZZZZ	Batch ID: R15613	TestNo: S	SW8015B			Analysis Dat	e: 3/10/20	08	SeqNo: 224	1125	
Analyte	Result	PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	0.3220	0.100	1	0	32.2	30	68.5	0.333	3.36	30	

Project:

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Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: R15616

Sample ID: mb	SampType: MBLK	TestCoo	le: 8260B_S	Units: µg/Kg	g Prep Date: 3/10/2008			08	RunNo: 15616		
Client ID: ZZZZZ	Batch ID: R15616	TestN	lo: SW8260B			Analysis Dat	e: 3/10/20	08	SeqNo: 224	147	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	10									
1,2-Dichloroethane (EDC)	ND	10									
Benzene	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Isopropyl Ether	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	20									
Surr: 4-Bromofluorobenzene	42.53	0	50	0	85.1	55.8	141				
Surr: Dibromofluoromethane	60.13	0	50	0	120	59.8	148				
Surr: Toluene-d8	45.99	0	50	0	92.0	55.2	133				
		TaatCaa	A 8260B S	Units: ua/Ka		Prep Dat	e: 3/10/20	08	RunNo: 156	516	
Sample ID: ICS	Samprype: LCS	Tesicoc		6			••••••••				
Client ID: ZZZZZ	Batch ID: R15616	TestN	lo: SW8260B	oo. µg ,g		Analysis Dat	e: 3/10/20	08	SeqNo: 224	1148	
Client ID: ZZZZZ	Batch ID: R15616 Result	Test Test PQL	lo: SW8260B SPK value	SPK Ref Val	%REC	Analysis Dat	e: 3/10/20 HighLimit	08 RPD Ref Val	SeqNo: 224 %RPD	1148 RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene	Batch ID: R15616 Result 47.16	PQL 10	lo: SW8260B SPK value	SPK Ref Val	%REC 94.3	Analysis Dat LowLimit 66.5	e: 3/10/20 HighLimit 135	08 RPD Ref Val	SeqNo: 224 %RPD	148 RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene	Batch ID: R15616 Result 47.16 49.62	PQL 10	lo: SW8260B SPK value 50 50	SPK Ref Val	%REC 94.3 99.2	Analysis Dat LowLimit 66.5 56.8	e: 3/10/20 HighLimit 135 134	08 RPD Ref Val	SeqNo: 224 %RPD	I148 RPDLimit	Qual
Client ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene	Batch ID: R15616 Result 47.16 49.62 46.91	PQL 10 0	lo: SW8260B SPK value 50 50 50	SPK Ref Val 0 0 0	%REC 94.3 99.2 93.8	Analysis Dat LowLimit 66.5 56.8 55.8	e: 3/10/20 HighLimit 135 134 141	08 RPD Ref Val	SeqNo: 224 %RPD	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Qual
Client ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	Batch ID: R15616 Result 47.16 49.62 46.91 54.66	PQL 10 10 0 0	lo: SW8260B SPK value 50 50 50 50	SPK Ref Val 0 0 0 0	%REC 94.3 99.2 93.8 109	Analysis Dat LowLimit 66.5 56.8 55.8 59.8	e: 3/10/20 HighLimit 135 134 141 148	08 RPD Ref Val	SeqNo: 224 %RPD	IIIII RPDLimit	Qual
Sample ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8	Batch ID: R15616 Result 47.16 49.62 46.91 54.66 48.71	10 TestN PQL 10 10 0 0 0	lo: SW8260B SPK value 50 50 50 50 50	SPK Ref Val 0 0 0 0 0 0	%REC 94.3 99.2 93.8 109 97.4	Analysis Dat LowLimit 66.5 56.8 55.8 59.8 59.8 55.2	e: 3/10/20 HighLimit 135 134 141 148 133	08 RPD Ref Val	SeqNo: 224 %RPD	I148 RPDLimit	Qual
Sample ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: ICSd	Batch ID: R15616 Result 47.16 49.62 46.91 54.66 48.71 SampType: LCSD	PQL 10 10 0 0 TestCoc	lo: SW8260B SPK value 50 50 50 50 50	SPK Ref Val 0 0 0 0 0 0 0 0 0	%REC 94.3 99.2 93.8 109 97.4	Analysis Dat LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Dat	e: 3/10/20 HighLimit 135 134 141 148 133 e: 3/10/20	08 RPD Ref Val	SeqNo: 224 %RPD	IIIII RPDLimit	Qual
Sample ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: ICSd Client ID: ZZZZZ	Batch ID: R15616 Result 47.16 49.62 46.91 54.66 48.71 SampType: LCSD Batch ID: R15616	TestOc TestN PQL 10 10 0 0 0 TestCoc TestN	lo: SW8260B SPK value 50 50 50 50 50 50 50 50 50 50 50 50 50	SPK Ref Val 0 0 0 0 0 0 0 Units: µg/Kg	%REC 94.3 99.2 93.8 109 97.4	Analysis Dat LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Dat Analysis Dat	e: 3/10/20 HighLimit 135 134 141 148 133 e: 3/10/20 e: 3/10/20	08 RPD Ref Val 08 08	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224	8148 RPDLimit 816 8149	Qual
Sample ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: ICSd Client ID: ZZZZZ Analyte	Batch ID: R15616 Result 47.16 49.62 46.91 54.66 48.71 SampType: LCSD Batch ID: R15616 Result	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN PQL	lo: SW8260B SPK value 50 50 50 50 50 50 8e: 8260B_S lo: SW8260B SPK value	SPK Ref Val 0 0 0 0 0 0 Units: µg/Kg SPK Ref Val	%REC 94.3 99.2 93.8 109 97.4	Analysis Dat LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Dat Analysis Dat LowLimit	e: 3/10/20 HighLimit 135 134 141 148 133 e: 3/10/20 e: 3/10/20 HighLimit	08 RPD Ref Val 08 08 RPD Ref Val	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD	RPDLimit RPDLimit 316 4149 RPDLimit	Qual
Sample ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: ICSd Client ID: ZZZZZ Analyte Benzene	Batch ID: R15616 Result 47.16 49.62 46.91 54.66 48.71 SampType: LCSD Batch ID: R15616 Result 46.76	TestN PQL 10 10 0 0 TestCoo TestN PQL 10	lo: SW8260B SPK value 50 50 50 50 ke: 8260B_S lo: SW8260B SPK value 50	SPK Ref Val 0 0 0 0 0 Units: µg/Kg SPK Ref Val 0	%REC 94.3 99.2 93.8 109 97.4 %REC 93.5	Analysis Dat LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Dat Analysis Dat LowLimit 66.5	e: 3/10/20 HighLimit 135 134 141 148 133 e: 3/10/20 e: 3/10/20 HighLimit 135	08 RPD Ref Val 08 08 RPD Ref Val 47.16	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD 0.852	1148 RPDLimit 516 1149 RPDLimit 30	Qual
Sample ID: ICS Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: ICSd Client ID: ZZZZZ Analyte Benzene Toluene	Batch ID: R15616 Result 47.16 49.62 46.91 54.66 48.71 SampType: LCSD Batch ID: R15616 Result 46.76 44.83	TestOc TestN PQL 10 10 0 0 TestCoc TestN PQL 10 10	lo: SW8260B SPK value 50 50 50 50 50 50 50 50 50 50 50 50 SPK value 50 50 50	SPK Ref Val 0 0 0 0 0 0 Units: µg/Kg SPK Ref Val 0 0 0	%REC 94.3 99.2 93.8 109 97.4 %REC 93.5 89.7	Analysis Dat LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Dat Analysis Dat LowLimit 66.5 56.8	e: 3/10/20 HighLimit 135 134 141 148 133 e: 3/10/20 e: 3/10/20 HighLimit 135 134	08 RPD Ref Val 08 08 RPD Ref Val 47.16 49.62	SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD 0.852 10.1	1148 RPDLimit 816 1149 RPDLimit 30 30	Qual

Qualifiers:

R

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

S

The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result

CLIENT: Impact Environmental Services Work Order: 0803052 **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: R15616

Sample ID: Icsd	SampType: LCSD	TestCoo	le: 8260B_S	Units: µg/Kg		Prep Dat	te: 3/10/20	08	RunNo: 156	616	
Client ID: ZZZZZ	Batch ID: R15616	TestN	lo: SW8260B			Analysis Dat	te: 3/10/20	08	SeqNo: 224	1149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	49.40	0	50	0	98.8	55.8	141	0	0	0	
Surr: Dibromofluoromethane	57.69	0	50	0	115	59.8	148	0	0	0	
Surr: Toluene-d8	46.03	0	50	0	92.1	55.2	133	0	0	0	

S

I	Image: Constraint of the second system 483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 Phone: 408.263.5258 FAX: 408.263.8293 Image: Second system Image: Note that the second system					CHAIN OF CUSTODY								AB WORK ORDE	r NO	
Company	y Name: IMPACT &	ENV1120NMEN	m		Locati	on of Sa	ampling	: 14	69-	141-	1 12	th	81.	, DA	KLAND	
Address:	ddress: 39120 Argonaust Way #223					Purpose: Phar I ESA/ Well Installation										
City:	ty: FREMONT State: CA Zip Code:914538					al Instru	ctions /	Comme	ents:	Em	uil	re	solt	s to		
Telephor	ne (510) 7035420 FAX	(: 610) 791-0	27)		L	ac 21	+62	e as	1.00	m	324					
REPORT	TO: Joseph Cotten	SAMPLER:	selph (oto	P.O. #	#:				1	EMAIL:	Ja	c Zic	1620	callen	-
10 Work	OUND TIME: rk Days 3 Work Days Noon - N x Days 2 Work Days 2 - 8 Hou x Days 2 Work Days Other	Ixt Day	Air D Other	REPORT QC Le EDF Excel	FORMAT:	:PA 8260B - Full List :PA 8260B - 8010 List	HP gas HBTEX)xygenates MTBE	HP Diesel Si-Gel Aotor Oil	Pesticide - 8081	oCB - 8082	s CAM - 17 UFT 5 7 Metals	270 Full List AHs Only	15 th	•	ANALYSI REQUEST	IS ED
LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE		卤卤	ØØ			Metal:		b		REMARKS	
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03A	B-16'.10'	1:40P	5	1		No. 10	X	X								
004A	B-16:12	2:109	Ş	1			X	X							HOLP UNT FUTTHER NO	IL THE
005A	B-16'.13') 2', 30 ^r	5	1			X	X								
206A	B-16:15	3:002	5	1	5		X	X					2			
007A	B-16:20'	3:304	5	1	5		X	X					9			
028A	B-16.22	3-6-8 4'00 "	5	1	Polyliks	Y	X	X				0				
DOGA	B-16igw	3-6-8 3:15P	W	4	1 AMBE	2	X	X								
0107	B-17:qw	3-7-8 1.00	W	4	11		X	X					V			
Reling	wished By: Solution Print: Solution Print: Print: Print:	n Cotto Date: Date:	7~2	Time:	(Receiv	red By:	88	3	Print: Print:	-	-	Date:	7/2	Time:	\mathcal{T}
2								La state				12-16-16				
Were San NOTE: Sa Log In By	nples Received in Good Condition? amples are discarded by the lab	Yes NO S. oratory 30 days from dat Date: 310	amples on lo e of receipt	unless othe	es D NO er arrange iewed By: _	Method	l of Ship s are m	oment		Da	ite:	S	ample s	eals intact [*] Page	? Yes NO of	2 N/A

I	Torrent	483 Sinclair Fronta Milpitas, CA 95038 Phone: 408.263.52 FAX: 408.263.8293 www.torrentlab.com	ge Road 5 58 58	• NC	C DTE: SHA	CHAI	N OF		JST		DY USE C	DNLY •		b work order 80305	NO 52
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City:	2 cm mt Sta	ate: (A	Zip Code	9458	Speci	al Instructio	ns / Comn	nents:	En	200		real	k A	2	
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REPORT	TO: Joseph latta	SAMPLER:	ob (Xth	P.O. :	#:				EMAIL:	1	ac2	MBL	eadice	2
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LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE					Metals		d	~	REMARKS	
011A 012A 013A 014A 015A	B-17:51 B-17:101 B-17:15 B-17:201 B-17:251	3-7-8 121.00 121.00 1.30 3-7-8 24.00	5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Poly Li Per		XXXXXX		21	S	H	Y			TORRENT LAB
1 Reling 2 Reling Were Sam NOTE: Sa	utshed By: Print: DFSPut JOFSPut Print: Inples Received in Good Condition? mples are discarded by the labo	Corren Date: 2 Date: 2 Ves NO S	amples on lo	Time: Time: Time: xe? Ye	es DNO	Received I Received I Method of 3	3y: y: Shipment		Print:	-	S:	Date: 3/7 Date:	108 alls intact?	Time: LBJ Time: Yes NO] N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrang 3/10 100 Log In By: ____ Date: _ Log In Reviewed By:



March 18, 2008

Mr. Joseph Cotton Impact Environmental Services 39120 Arogonat Way, Suite 223 Fremont, CA 94538

TEL: 510-703-5420 FAX 510-713-7790

RE: 14194.002

Dear Mr. Joseph Cotton:

Order No.: 0803064

Torrent Laboratory, Inc. received 15 samples on 3/11/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

Patti Sandrøck OA Officer

Date Tiglos



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 3/11/2008 **Date Reported:**

Client Sample ID:	MW-1-5.5
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/10/2008 9:30:00 AM

Lab Sample ID: 0803064-001 Date Prepared: 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	18.7x	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	20.5x	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	98.8	%REC	R15675

Note: x-Sample chromatogram does not resemble typical diesel or motor oil pattern. Hydrocarbons within the diesel range quantitated as diesel; hydrocarbons within the motor oil range quantitated as motor oil.

1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15648
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15648
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15648
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	115	%REC	R15648
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	117	%REC	R15648
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	95.0	%REC	R15648
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15648
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	76.0	%REC	G15648

Date Received:	3/11/2008
Date Reported:	

Lab Sample ID: 0803064-002 **Date Prepared:** 3/14/2008

Client Sample ID:	MW-1-10.5
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/10/2008 9:50:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	103	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15648
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15648
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15648
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	118	%REC	R15648
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	131	%REC	R15648
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	102	%REC	R15648
TPH (Gasoline)	SW8260B(TPH)	3/17/2008	100	1	100	ND	µg/Kg	G15673
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/17/2008	0	1	56.9-133	90.0	%REC	G15673

Date Received:	3/11/2008
Date Reported:	

Lab Sample ID: 0803064-003 Date Prepared: 3/14/2008

Client Sample ID:MW-1-15.0Sample Location:IES Oakland 1409 12th StSample Matrix:SOILDate/Time Sampled3/10/2008 10:05:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	4.70x	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	6.35x	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	102	%REC	R15675

Note:x-Sample chromatogram does not resemble typical diesel or motor oil pattern. Hydrocarbons within the diesel range quantitated as diesel; hydrocarbons within the motor oil range quantitated as motor oil.

1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15648
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15648
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15648
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	114	%REC	R15648
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	117	%REC	R15648
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	96.0	%REC	R15648
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15648
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	70.0	%REC	G15648

Client Sample ID:MW-8-6.5Sample Location:IES Oakland 1409 12th StSample Matrix:SOILDate/Time Sampled3/10/2008 1:40:00 PM

T

Lab Sample ID: 0803064-005 Date Prepared: 3/14/2008-3/17/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	54.7x	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	97.4	%REC	R15675
Note: x-Sample chromatogram does not r	esemble typical dies	el pattern. Hydroc	arbons wit	hin the diesel	range quanti	tated as diesel		
1,2-Dibromoethane (EDB)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Benzene	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/15/2008	5	100	500	1700	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/15/2008	10	100	1000	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/15/2008	50	100	5000	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Toluene	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Xylenes, Total	SW8260B	3/15/2008	15	100	1500	8200	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/15/2008	0	100	55.8-141	106	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/15/2008	0	100	59.8-148	109	%REC	R15666
Surr: Toluene-d8	SW8260B	3/15/2008	0	100	55.2-133	107	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/17/2008	100	200	20000	333000x	µg/Kg	G15673
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/17/2008	0	200	56.9-133	88.0	%REC	G15673

T

Note:x- Pattern does not match typical gasoline. TPHg result due to the presence of significant amount of non-target heavy end hydrocarbons within gasoline range.

Client Sample ID:	MW-8-11.0
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/10/2008 1:50:00 PM

Lab Sample ID: 0803064-006 Date Prepared: 3/14/2008-3/15/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	99.6	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Benzene	SW8260B	3/15/2008	5	100	500	760	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/15/2008	5	100	500	1400	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/15/2008	10	100	1000	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/15/2008	50	100	5000	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/15/2008	5	100	500	ND	µg/Kg	R15666
Toluene	SW8260B	3/15/2008	5	100	500	1000	µg/Kg	R15666
Xylenes, Total	SW8260B	3/15/2008	15	100	1500	7700	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/15/2008	0	100	55.8-141	109	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/15/2008	0	100	59.8-148	106	%REC	R15666
Surr: Toluene-d8	SW8260B	3/15/2008	0	100	55.2-133	98.3	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/15/2008	100	100	10000	40000	µg/Kg	G15666
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/15/2008	0	100	56.9-133	72.0	%REC	G15666

Note:x- Although TPHg as gasoline compounds are present, TPHg value elevated due to the presence of non-target compounds within gasoline range.

Client Sample ID:	MW-8-16.0
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/10/2008 2:00:00 PM

Lab Sample ID: 0803064-007 Date Prepared: 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	111	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15648
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15648
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15648
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	76.3	%REC	R15648
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	122	%REC	R15648
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	95.4	%REC	R15648
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	138x	µg/Kg	G15648
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	86.0	%REC	G15648

Note: x-Pattern does not match typical gasoline. TPHg result due to the presence of non-target compounds within gasoline range.

Date Received: 3/11/2008 **Date Reported:**

Lab Sample ID: 0803064-008 Date Prepared: 3/14/2008

Client Sample ID:	MW-8-20.5
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/10/2008 2:05:00 PM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	3.02x	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	4.41x	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	98.6	%REC	R15675

Note: x-Sample chromatogram does not resemble typical diesel or motor oil pattern. Hydrocarbons within the diesel range quantitated as diesel; hydrocarbons within the motor oil range quantitated as motor oil.Note: Sample chromatogram does not resemble typical diesel or motor oil pattern. Hydrocarbons within the diesel range quantitated as diesel; hydrocarbons within the diesel range quantitated as diesel; hydrocarbons within the motor oil range quantitated as diesel; hydrocarbons within the motor oil range quantitated as motor oil.

1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15648
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15648
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Xylenes, Total	SW8260B	3/14/2008	15	1	15	17	µg/Kg	R15648
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	82.0	%REC	R15648
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	121	%REC	R15648
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	94.5	%REC	R15648
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	107x	µg/Kg	G15648
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	80.0	%REC	G15648

Note: x-Pattern does not match typical gasoline. TPHg result due to the presence of non-target compounds within gasoline range.

Sample Location: IES Oakland 1409 12th	St
Sample Matrix: SOIL	
Date/Time Sampled 3/11/2008 11:40:00 AM	

Lab Sample ID: 0803064-010 Date Prepared: 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	103	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15648
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15648
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15648
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15648
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	109	%REC	R15648
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	125	%REC	R15648
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	98.0	%REC	R15648
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15648
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	82.0	%REC	G15648

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Client Sample ID:	MW-4-12.0
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/11/2008 11:47:00 AM

Lab Sample ID: 0803064-011 Date Prepared: 3/14/2008-3/15/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	98.5	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Benzene	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/15/2008	10	1	10	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/15/2008	50	1	50	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Toluene	SW8260B	3/15/2008	5	1	5.0	ND	µg/Kg	R15666
Xylenes, Total	SW8260B	3/15/2008	15	1	15	ND	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/15/2008	0	1	55.8-141	91.5	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/15/2008	0	1	59.8-148	125	%REC	R15666
Surr: Toluene-d8	SW8260B	3/15/2008	0	1	55.2-133	116	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/15/2008	100	1	100	ND	µg/Kg	G15666
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/15/2008	0	1	56.9-133	74.0	%REC	G15666

Client Sample ID:	MW-4-17.0
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/11/2008 11:55:00 AM

Lab Sample ID: 0803064-012 Date Prepared: 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	100	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	101	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	111	%REC	R15666
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	99.6	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15666
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	76.0	%REC	G15666

Client Sample ID:	MW-2-7.0
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/11/2008 2:30:00 PM

Date Received: 3/11/2008 **Date Reported:**

Lab Sample ID: 0803064-013 **Date Prepared:** 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	97.9	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	102	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	119	%REC	R15666
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	104	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15666
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	70.0	%REC	G15666

Client Sample ID:	MW-2-10.5
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/11/2008 2:38:00 PM

Lab Sample ID: 0803064-014 **Date Prepared:** 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	107	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	μg/Kg	R15666
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	105	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	118	%REC	R15666
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	97.1	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15666
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	58.0	%REC	G15666

Client Sample ID:	MW-2-13.8
Sample Location:	IES Oakland 1409 12th St
Sample Matrix:	SOIL
Date/Time Sampled	3/11/2008 2:45:00 PM

Lab Sample ID: 0803064-015 **Date Prepared:** 3/14/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	3/15/2008	2	1	2.00	ND	mg/Kg	R15675
TPH (Motor Oil)	SW8015B	3/15/2008	4	1	4.00	ND	mg/Kg	R15675
Surr: Pentacosane	SW8015B	3/15/2008	0	1	53.5-127	107	%REC	R15675
1,2-Dibromoethane (EDB)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
1,2-Dichloroethane (EDC)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Benzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Diisopropyl ether (DIPE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethyl tert-butyl ether (ETBE)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Ethylbenzene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Isopropyl Ether	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Methyl tert-butyl ether (MTBE)	SW8260B	3/14/2008	10	1	10	ND	µg/Kg	R15666
t-Butyl alcohol (t-Butanol)	SW8260B	3/14/2008	50	1	50	ND	µg/Kg	R15666
tert-Amyl methyl ether (TAME)	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Toluene	SW8260B	3/14/2008	5	1	5.0	ND	µg/Kg	R15666
Xylenes, Total	SW8260B	3/14/2008	15	1	15	ND	µg/Kg	R15666
Surr: 4-Bromofluorobenzene	SW8260B	3/14/2008	0	1	55.8-141	104	%REC	R15666
Surr: Dibromofluoromethane	SW8260B	3/14/2008	0	1	59.8-148	121	%REC	R15666
Surr: Toluene-d8	SW8260B	3/14/2008	0	1	55.2-133	96.2	%REC	R15666
TPH (Gasoline)	SW8260B(TPH)	3/14/2008	100	1	100	ND	µg/Kg	G15666
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/14/2008	0	1	56.9-133	72.0	%REC	G15666

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory. Lab Certificate #

Torrent Laboratory, Inc.

CLIENT: Impact Environmental Services Work Order: 0803064

Project: 14194.002

ANALYTICAL QC SUMMARY REPORT

BatchID: G15648

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/13/2008	RunNo: 15648
Client ID: ZZZZZ	Batch ID: G15648	TestNo: SW8260B(TP	Analysis Date: 3/13/2008	SeqNo: 224554
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	ND	100		
Surr: 4-Bromofllurobenzene	39.00	0 50 0	78.0 56.9 133	
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/13/2008	RunNo: 15648
Client ID: ZZZZZ	Batch ID: G15648	TestNo: SW8260B(TP	Analysis Date: 3/13/2008	SeqNo: 224555
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	832.0	100 1000 0	83.2 48.2 132	
Surr: 4-Bromofllurobenzene	45.00	0 50 0	90.0 56.9 133	
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/13/2008	RunNo: 15648
Client ID: ZZZZZ	Batch ID: G15648	TestNo: SW8260B(TP	Analysis Date: 3/13/2008	SeqNo: 224556
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	802.0	100 1000 0	80.2 48.2 132 832	3.67 30
Surr: 4-Bromofllurobenzene	42.00	0 50 0	84.0 56.9 133 0	0 0

Qualifiers: Value above quantitation range Е

RPD outside accepted recovery limits S

Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 1 of 8

Project: 14194.002

ANALYTICAL QC SUMMARY REPORT

BatchID: G15666

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/14/2008	RunNo: 15666
Client ID: ZZZZZ	Batch ID: G15666	TestNo: SW8260B(TP	Analysis Date: 3/14/2008	SeqNo: 224753
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	ND	100		
Surr: 4-Bromofllurobenzene	38.00	0 50 0	76.0 56.9 133	
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/14/2008	RunNo: 15666
Client ID: ZZZZZ	Batch ID: G15666	TestNo: SW8260B(TP	Analysis Date: 3/14/2008	SeqNo: 224754
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	965.0	100 1000 0	96.5 48.2 132	
Surr: 4-Bromofllurobenzene	45.00	0 50 0	90.0 56.9 133	
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/14/2008	RunNo: 15666
Client ID: ZZZZZ	Batch ID: G15666	TestNo: SW8260B(TP	Analysis Date: 3/14/2008	SeqNo: 224755
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	869.0	100 1000 0	86.9 48.2 132 965	10.5 30
Surr: 4-Bromofllurobenzene	39.00	0 50 0	78.0 56.9 133 0	0 0

Analyte detected below quantitation limits J

Project: 14194.002

ANALYTICAL QC SUMMARY REPORT

BatchID: G15673

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/17/2008	RunNo: 15673
Client ID: ZZZZZ	Batch ID: G15673	TestNo: SW8260B(TP	Analysis Date: 3/17/2008	SeqNo: 224869
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	ND	100		
Surr: 4-Bromofllurobenzene	44.00	0 50 0	88.0 56.9 133	
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/17/2008	RunNo: 15673
Client ID: ZZZZZ	Batch ID: G15673	TestNo: SW8260B(TP	Analysis Date: 3/17/2008	SeqNo: 224870
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	888.0	100 1000 0	88.8 48.2 132	
Surr: 4-Bromofllurobenzene	46.00	0 50 0	92.0 56.9 133	
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 3/17/2008	RunNo: 15673
Client ID: ZZZZZ	Batch ID: G15673	TestNo: SW8260B(TP	Analysis Date: 3/17/2008	SeqNo: 224871
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	902.0	100 100 0	90.2 48.2 132 888	1.56 30
Surr: 4-Bromofllurobenzene	45.00	0 50 0	90.0 56.9 133 0	0 0

S

Analyte detected below quantitation limits J

14194.002 **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: R15648

Sample ID: mb-6	SampType: MBLK	TestCoc	le: 8260B_S	Units: µg/Kg		Prep Da	te: 3/13/20	008	RunNo: 15	648	
Client ID: ZZZZZ	Batch ID: R15648	TestN	lo: SW8260B			Analysis Da	te: 3/13/20	008	SeqNo: 22	4536	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	10									
1,2-Dichloroethane (EDC)	ND	10									
Benzene	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Isopropyl Ether	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	20									
Surr: 4-Bromofluorobenzene	52.99	0	50	0	106	55.8	141				
Surr: Dibromofluoromethane	52.85	0	50	0	106	59.8	148				
Surr: Toluene-d8	52.57	0	50	0	105	55.2	133				
Sample ID: Ics-6	SampType: LCS	TestCoc	le: 8260B_S	Units: µg/Kg		Prep Da	te: 3/13/20	008	RunNo: 15	648	
Sample ID: Ics-6 Client ID: ZZZZZ	SampType: LCS Batch ID: R15648	TestCoc TestN	le: 8260B_S lo: SW8260B	Units: µg/Kg		Prep Da Analysis Da	te: 3/13/20 te: 3/13/20	008 008	RunNo: 15 SeqNo: 22	648 4545	
Sample ID: I cs-6 Client ID: ZZZZZ Analyte	SampType: LCS Batch ID: R15648 Result	TestCoc TestN PQL	le: 8260B_S lo: SW8260B SPK value	Units: µg/Kg SPK Ref Val	%REC	Prep Da Analysis Da LowLimit	te: 3/13/20 te: 3/13/20 HighLimit	008 008 RPD Ref Val	RunNo: 15 SeqNo: 22 %RPD	648 4545 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene	SampType: LCS Batch ID: R15648 Result 40.25	TestCoc TestN PQL 10	de: 8260B_S lo: SW8260B SPK value 50	Units: µg/Kg SPK Ref Val 0	%REC 80.5	Prep Da Analysis Da LowLimit 66.5	te: 3/13/2(te: 3/13/2(HighLimit 135	008 008 RPD Ref Val	RunNo: 15 SeqNo: 22 %RPD	648 4545 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene	SampType: LCS Batch ID: R15648 Result 40.25 49.14	TestCoc TestN PQL 10 10	de: 8260B_S lo: SW8260B SPK value 50 50	Units: µg/Kg SPK Ref Val 0 0	%REC 80.5 98.3	Prep Da Analysis Da LowLimit 66.5 56.8	te: 3/13/2(te: 3/13/2(HighLimit 135 134	008 008 RPD Ref Val	RunNo: 15 SeqNo: 22 %RPD	648 4545 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34	TestCoc TestN PQL 10 10 0	le: 8260B_S lo: SW8260B SPK value 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0	%REC 80.5 98.3 105	Prep Da Analysis Da LowLimit 66.5 56.8 55.8	te: 3/13/2(te: 3/13/2(HighLimit 135 134 141	008 008 RPD Ref Val	RunNo: 15 SeqNo: 22 %RPD	648 4545 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69	TestCoc TestN PQL 10 10 0 0	le: 8260B_S lo: SW8260B SPK value 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0	%REC 80.5 98.3 105 103	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 55.8 59.8	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148	008 008 RPD Ref Val	RunNo: 15 SeqNo: 22 %RPD	648 4545 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69 50.82	TestCoo TestN PQL 10 10 0 0 0	de: 8260B_S lo: SW8260B SPK value 50 50 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0	%REC 80.5 98.3 105 103 102	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 59.8 55.2	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148 133	008 008 RPD Ref Val	RunNo: 15 SeqNo: 22 %RPD	648 4545 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd-6	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69 50.82 SampType: LCSD	TestCoo TestN PQL 10 10 0 0 0 0 TestCoo	de: 8260B_S lo: SW8260B SPK value 50 50 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 0 0 0	%REC 80.5 98.3 105 103 102	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148 133 te: 3/13/20	008 008 RPD Ref Val	RunNo: 15 / SeqNo: 22 %RPD RunNo: 15 /	648 4545 RPDLimit 648	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd-6 Client ID: ZZZZZ	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69 50.82 SampType: LCSD Batch ID: R15648	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 50 50 50 50 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 0 0 Units: µg/Kg	%REC 80.5 98.3 105 103 102	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148 133 te: 3/13/20 te: 3/13/20	008 008 RPD Ref Val 008	RunNo: 15 4 SeqNo: 22 %RPD RunNo: 15 4 SeqNo: 22 4	648 4545 RPDLimit 648 4546	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd-6 Client ID: ZZZZZ Analyte	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69 50.82 SampType: LCSD Batch ID: R15648 Result	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN PQL	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 de: 8260B_S Io: SW8260B SPK value	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 Units: µg/Kg SPK Ref Val	%REC 80.5 98.3 105 103 102 %REC	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da LowLimit	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148 133 te: 3/13/20 te: 3/13/20 HighLimit	008 008 RPD Ref Val 008 008 RPD Ref Val	RunNo: 15 / SeqNo: 22 / %RPD RunNo: 15 / SeqNo: 22 / %RPD	648 4545 RPDLimit 648 4546 RPDLimit	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluorobenzene Surr: Toluene-d8 Sample ID: Icsd-6 Client ID: ZZZZZ Analyte Benzene	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69 50.82 SampType: LCSD Batch ID: R15648 Result 46.68	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN PQL 10	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 de: 8260B_S Io: SW8260B SPK value 50	Units: µg/Kg SPK Ref Val 0 0 0 0 Units: µg/Kg SPK Ref Val 0 0	%REC 80.5 98.3 105 103 102 %REC 93.4	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da LowLimit 66.5	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148 133 te: 3/13/20 te: 3/13/20 HighLimit 135	008 008 RPD Ref Val 008 008 RPD Ref Val 40.25	RunNo: 15 / SeqNo: 22 / %RPD RunNo: 15 / SeqNo: 22 / %RPD 14.8	648 4545 RPDLimit 648 4546 RPDLimit 30	Qual
Sample ID: Ics-6 Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd-6 Client ID: ZZZZZ Analyte Benzene Toluene	SampType: LCS Batch ID: R15648 Result 40.25 49.14 52.34 51.69 50.82 SampType: LCSD Batch ID: R15648 Result 46.68 51.77	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN PQL 10 10	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 de: 8260B_S Io: SW8260B SPK value 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 0 0 0	%REC 80.5 98.3 105 103 102 %REC 93.4 104	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da LowLimit 66.5 56.8	te: 3/13/20 te: 3/13/20 HighLimit 135 134 141 148 133 te: 3/13/20 te: 3/13/20 HighLimit 135 134	008 008 RPD Ref Val 008 008 RPD Ref Val 40.25 49.14	RunNo: 154 SeqNo: 22 %RPD RunNo: 15 SeqNo: 22 %RPD 14.8 5.21	648 4545 RPDLimit 648 4546 RPDLimit 30 30	Qual

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J S

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits Page 4 of 8

CLIENT: Impact Environmental Services Work Order: 0803064 **Project:** 14194.002

ANALYTICAL QC SUMMARY REPORT

BatchID: R15648

Sample ID: Icsd-6	SampType: LCSD	TestCoo	de: 8260B_S	Units: µg/Kg		Prep Da	te: 3/13/20	08	RunNo: 156	648	
Client ID: ZZZZZ	Batch ID: R15648	TestN	lo: SW8260B			Analysis Da	te: 3/13/20	08	SeqNo: 224	4546	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	47.62	0	50	0	95.2	55.8	141	0	0	0	
Surr: Dibromofluoromethane	50.94	0	50	0	102	59.8	148	0	0	0	
Surr: Toluene-d8	49.24	0	50	0	98.5	55.2	133	0	0	0	

R

Analyte detected below quantitation limits J

Spike Recovery outside accepted recovery limits Page 5 of 8 S

14194.002 **Project:**

ANALYTICAL QC SUMMARY REPORT

BatchID: R15666

Sample ID: mb	SampType: MBLK	TestCoo	le: 8260B_S	Units: µg/Kg		Prep Da	Prep Date: 3/14/2008 R		RunNo: 15666		
Client ID: ZZZZZ	Batch ID: R15666	TestN	lo: SW8260B			Analysis Da	te: 3/14/20	008	SeqNo: 224	4733	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	10									
1,2-Dichloroethane (EDC)	ND	10									
Benzene	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Isopropyl Ether	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	20									
Surr: 4-Bromofluorobenzene	52.66	0	50	0	105	55.8	141				
Surr: Dibromofluoromethane	58.27	0	50	0	117	59.8	148				
Surr: Toluene-d8	51.52	0	50	0	103	55.2	133				
Sample ID: Ics	SampType: LCS	TestCoo	le: 8260B_S	Units: µg/Kg		Prep Da	te: 3/14/20	008	RunNo: 156	666	
Sample ID: I cs Client ID: ZZZZZ	SampType: LCS Batch ID: R15666	TestCoo TestN	le: 8260B_S lo: SW8260B	Units: µg/Kg		Prep Da Analysis Da	te: 3/14/20 te: 3/14/20	008 008	RunNo: 156 SeqNo: 224	566 4734	
Sample ID: I cs Client ID: ZZZZZ Analyte	SampType: LCS Batch ID: R15666 Result	TestCoo TestN PQL	de: 8260B_S lo: SW8260B SPK value	Units: µg/Kg SPK Ref Val	%REC	Prep Da Analysis Da LowLimit	te: 3/14/20 te: 3/14/20 HighLimit	008 008 RPD Ref Val	RunNo: 156 SeqNo: 224 %RPD	566 1734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene	SampType: LCS Batch ID: R15666 Result 47.63	TestCoc TestN PQL 10	de: 8260B_S lo: SW8260B SPK value 50	Units: µg/Kg SPK Ref Val 0	%REC 95.3	Prep Da Analysis Da LowLimit 66.5	te: 3/14/2(te: 3/14/2(HighLimit 135	008 008 RPD Ref Val	RunNo: 156 SeqNo: 224 %RPD	666 4734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene	SampType: LCS Batch ID: R15666 Result 47.63 50.00	TestCoo TestN PQL 10 10	de: 8260B_S lo: SW8260B SPK value 50 50	Units: µg/Kg SPK Ref Val 0 0	%REC 95.3 100	Prep Da Analysis Da LowLimit 66.5 56.8	te: 3/14/2(te: 3/14/2(HighLimit 135 134	008 008 RPD Ref Val	RunNo: 156 SeqNo: 224 %RPD	666 1734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65	TestCoc TestN PQL 10 10 0	le: 8260B_S lo: SW8260B SPK value 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0	%REC 95.3 100 107	Prep Da Analysis Da LowLimit 66.5 56.8 55.8	te: 3/14/2(te: 3/14/2(HighLimit 135 134 141	008 008 RPD Ref Val	RunNo: 156 SeqNo: 224 %RPD	666 1734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25	TestCoc TestN PQL 10 10 0 0	le: 8260B_S lo: SW8260B SPK value 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0	%REC 95.3 100 107 106	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 55.8 59.8	te: 3/14/2(te: 3/14/2(HighLimit 135 134 141 148	008 008 RPD Ref Val	RunNo: 156 SeqNo: 22 4 %RPD	666 1734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25 48.72	TestCoo TestN PQL 10 10 0 0 0	de: 8260B_S lo: SW8260B SPK value 50 50 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0	%REC 95.3 100 107 106 97.4	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 59.8 55.2	te: 3/14/20 tte: 3/14/20 HighLimit 135 134 141 148 133	008 008 RPD Ref Val	RunNo: 156 SeqNo: 22 %RPD	666 4734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25 48.72 SampType: LCSD	TestCoo TestN PQL 10 10 0 0 0 0	de: 8260B_S lo: SW8260B SPK value 50 50 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 0 0 0	%REC 95.3 100 107 106 97.4	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da	te: 3/14/2(te: 3/14/2(HighLimit 135 134 141 148 133 te: 3/14/2(008 008 RPD Ref Val	RunNo: 156 SeqNo: 22 %RPD	666 4734 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd Client ID: ZZZZZ	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25 48.72 SampType: LCSD Batch ID: R15666	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 50 50 50 50 50 50 50 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 0 Units: µg/Kg	%REC 95.3 100 107 106 97.4	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da	te: 3/14/20 te: 3/14/20 HighLimit 135 134 141 148 133 te: 3/14/20 te: 3/14/20	008 008 RPD Ref Val 008	RunNo: 156 SeqNo: 224 %RPD RunNo: 156 SeqNo: 224	666 4734 RPDLimit 666 4735	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd Client ID: ZZZZZ Analyte	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25 48.72 SampType: LCSD Batch ID: R15666 Result	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN PQL	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 50 de: 8260B_S Io: SW8260B SPK value	Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 Units: µg/Kg SPK Ref Val	%REC 95.3 100 107 106 97.4 %REC	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da LowLimit	te: 3/14/20 te: 3/14/20 HighLimit 135 134 141 148 133 te: 3/14/20 te: 3/14/20 HighLimit	008 008 RPD Ref Val 008 008 RPD Ref Val	RunNo: 156 SeqNo: 224 %RPD RunNo: 156 SeqNo: 224	666 4734 RPDLimit 666 4735 RPDLimit	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd Client ID: ZZZZZ Analyte Benzene	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25 48.72 SampType: LCSD Batch ID: R15666 Result 48.42	TestCoo TestN PQL 10 10 0 0 0 TestCoo TestN PQL 10	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 de: 8260B_S Io: SW8260B SPK value 50	Units: µg/Kg SPK Ref Val 0 0 0 0 Units: µg/Kg SPK Ref Val 0 0	%REC 95.3 100 107 106 97.4 %REC 96.8	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da LowLimit 66.5	te: 3/14/20 te: 3/14/20 HighLimit 135 134 141 148 133 te: 3/14/20 te: 3/14/20 HighLimit 135	008 008 RPD Ref Val 008 008 RPD Ref Val 47.63	RunNo: 156 SeqNo: 22 %RPD RunNo: 156 SeqNo: 22 %RPD 1.64	666 4734 RPDLimit 666 4735 RPDLimit 30	Qual
Sample ID: Ics Client ID: ZZZZZ Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID: Icsd Client ID: ZZZZZ Analyte Benzene Toluene	SampType: LCS Batch ID: R15666 Result 47.63 50.00 53.65 53.25 48.72 SampType: LCSD Batch ID: R15666 Result 48.42 51.27	TestCoc TestN PQL 10 10 0 0 0 TestCoc TestN PQL 10 10	de: 8260B_S Io: SW8260B SPK value 50 50 50 50 de: 8260B_S Io: SW8260B SPK value 50 50	Units: µg/Kg SPK Ref Val 0 0 0 0 Units: µg/Kg SPK Ref Val 0 0 0 0 0 0 0 0 0	%REC 95.3 100 107 106 97.4 %REC 96.8 103	Prep Da Analysis Da LowLimit 66.5 56.8 55.8 59.8 55.2 Prep Da Analysis Da LowLimit 66.5 56.8	te: 3/14/20 te: 3/14/20 HighLimit 135 134 141 148 133 te: 3/14/20 te: 3/14/20 HighLimit 135 134	008 008 RPD Ref Val 008 008 RPD Ref Val 47.63 50	RunNo: 156 SeqNo: 224 %RPD RunNo: 156 SeqNo: 224 %RPD 1.64 2.51	666 4734 RPDLimit 666 4735 RPDLimit 30 30	Qual

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits Spike Recovery outside accepted recovery limits Page 6 of 8 J S

R RPD outside accepted recovery limits
Project: 14194.002

ANALYTICAL QC SUMMARY REPORT

BatchID: R15666

Sample ID: Icsd	SampType: LCSD	TestCoo	le: 8260B_S	Units: µg/Kg	Xg Prep Date: 3/14/2008				RunNo: 15	666	
Client ID: ZZZZZ	Batch ID: R15666	TestN	lo: SW8260B			Analysis Da	te: 3/14/20	80	SeqNo: 224	4735	
Analyte	Result	PQL	SPK value SPK Ref Val			%REC LowLimit HighLimit RPD Ref Val			%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	52.11	0	50	0	104	55.8	141	0	0	0	
Surr: Dibromofluoromethane	54.59	0	50	0	109	59.8	148	0	0	0	
Surr: Toluene-d8	49.56	0	50	0	99.1	55.2	133	0	0	0	
Sample ID: 0803064-014A MS	SampType: MS	TestCoo	le: 8260B_S_I	PE Units: µg/Kg	Prep Date: 3/15/2008			RunNo: 15666			
Client ID: MW-2-10.5	Batch ID: R15666	TestN	TestNo: SW8260B			Analysis Da	te: 3/15/20	08	SeqNo: 224	1747	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53.12	5.0	50	0	106	66.5	135				
Toluene	54.98	5.0	50	0	110	56.8	134				
Surr: 4-Bromofluorobenzene	50.85	0	50	0	102	55.8	141				
Surr: Dibromofluoromethane	59.38	0	50	0	119	59.8	148				
Surr: Toluene-d8	52.78	0	50	0	106	55.2	133				
Sample ID: 0803064-014A MSD	SampType: MSD	TestCoo	le: 8260B_S_F	PE Units: µg/Kg		Prep Da	te: 3/15/20	08	RunNo: 15	666	
Client ID: MW-2-10.5	Batch ID: R15666	TestN	lo: SW8260B			Analysis Da	te: 3/15/20	08	SeqNo: 224	1748	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.23	5.0	50	0	112	66.5	135				
Toluene	61.44	5.0	50	0	123	56.8	134				
Surr: 4-Bromofluorobenzene	50.02	0	50	0	100	55.8	141				
Surr: Dibromofluoromethane	64.23	0	50	0	128	59.8	148				
Surr: Toluene-d8	59.35	0	50	0	119	55.2	133				

Value above quantitation range **Qualifiers:** Е

Holding times for preparation or analysis exceeded Н

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ND Not Detected at the Reporting Limit

- RPD outside accepted recovery limits
- Analyte detected below quantitation limits

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Spike Recovery outside accepted recovery limits Page 7 of 8

Project: 14194.002

ANALYTICAL QC SUMMARY REPORT

BatchID: R15675

Sample ID: SD080314A-MB	SampType: MBLK	TestCode: TPHDO_S	Units: mg/Kg	Prep Date: 3/14/2008	RunNo: 15675			
Client ID: ZZZZZ	Batch ID: R15675	TestNo: SW8015B		Analysis Date: 3/15/2008	SeqNo: 224841			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual			
TPH (Diesel)	ND	2.00						
TPH (Motor Oil)	ND	4.00						
Surr: Pentacosane	3.328	0 3.3	0	101 53.5 127				
Sample ID: SD080314A-LCS	SampType: LCS	TestCode: TPHDO_S	Units: mg/Kg	Prep Date: 3/14/2008	RunNo: 15675			
Client ID: ZZZZZ	Batch ID: R15675	TestNo: SW8015B		Analysis Date: 3/15/2008	SeqNo: 224842			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual			
TPH (Diesel)	28.06	2.00 33.33	0	84.2 46.2 109				
Surr: Pentacosane	3.370	0 3.3	0	102 53.5 127				
Sample ID: SD080314A-LCSD	SampType: LCSD	TestCode: TPHDO_S	Units: mg/Kg	Prep Date: 3/14/2008	RunNo: 15675			
Client ID: ZZZZZ	Batch ID: R15675	TestNo: SW8015B		Analysis Date: 3/15/2008	SeqNo: 224843			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual			
TPH (Diesel)	24.69	2.00 33.33	0	74.1 46.2 109 28.06	12.8 30			
Surr: Pentacosane	3.194	0 3.3	0	96.8 53.5 127 0	0 0			

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Analyte detected below quantitation limits J

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March 20, 2008

Mr. Joseph Cotton Impact Environmental Services 39120 Arogonat Way, Suite 223 Fremont, CA 94538

TEL: 510-703-5420 FAX 510-713-7790

RE:

Dear Mr. Joseph Cotton:

Order No.: 0803086

Torrent Laboratory, Inc. received 1 sample on 3/13/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

3/2015

Patti Sandrock QA Officer



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 3/13/2008 **Date Reported:**

Client Sample ID:	MW-8:27
Sample Location:	1409-1417 12th St Oakland
Sample Matrix:	SOIL
Date/Time Sampled	3/13/2008 10:00:00 AM

Lab Sample ID: 0803086-001 Date Prepared: 3/14/2008-3/18/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	3/18/2008	2	1	2.00	ND	mg/Kg	R15671
TPH (Motor Oil-SG)	SW8015B	3/18/2008	4	1	4.00	ND	mg/Kg	R15671
Surr: Pentacosane	SW8015B	3/18/2008	0	1	28-125	104	%REC	R15671
Benzene	SW8260B	3/18/2008	5	1	5.0	ND	µg/Kg	R15673
Diisopropyl ether (DIPE)	SW8260B	3/18/2008	5	1	5.0	ND	µg/Kg	R15673
Ethyl tert-butyl ether (ETBE)	SW8260B	3/18/2008	5	1	5.0	ND	µg/Kg	R15673
Ethylbenzene	SW8260B	3/18/2008	5	1	5.0	ND	μg/Kg	R15673
Methyl tert-butyl ether (MTBE)	SW8260B	3/18/2008	10	1	10	ND	µg/Kg	R15673
t-Butyl alcohol (t-Butanol)	SW8260B	3/18/2008	50	1	50	ND	µg/Kg	R15673
tert-Amyl methyl ether (TAME)	SW8260B	3/18/2008	5	1	5.0	ND	µg/Kg	R15673
Toluene	SW8260B	3/18/2008	5	1	5.0	ND	µg/Kg	R15673
Xylenes, Total	SW8260B	3/18/2008	15	1	15	ND	µg/Kg	R15673
Surr: 4-Bromofluorobenzene	SW8260B	3/18/2008	0	1	55.8-141	112	%REC	R15673
Surr: Dibromofluoromethane	SW8260B	3/18/2008	0	1	59.8-148	119	%REC	R15673
Surr: Toluene-d8	SW8260B	3/18/2008	0	1	55.2-133	90.9	%REC	R15673
TPH (Gasoline)	SW8260B(TPH)	3/18/2008	100	1	100	ND	µg/Kg	G15673
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	3/18/2008	0	1	56.9-133	76.0	%REC	G15673

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

Date: 20-Mar-08

CLIENT: Impact Environmental Services 0803086

Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: G15673

Sample ID: MB-G Client ID: ZZZZZ	SampType: MBLK Batch ID: G15673	TestCode: TPH_GAS_S_ TestNo: SW8260B(TP	Units: µg/Kg		Prep Date: Analysis Date:	3/17/2008 3/17/2008	RunNo: 15673 SeqNo: 224869		
Analyte	Result	PQL SPK value SF	K Ref Val	%REC	LowLimit Hi	ighLimit RPD Ref Val	%RPD RPDLimit	Qual	
TPH (Gasoline) Surr: 4-Bromofllurobenzene	ND 44.00	100 0 50	0	88.0	56.9	133			
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_	Units: µg/Kg		Prep Date:	3/17/2008	RunNo: 15673		
Client ID: ZZZZZ	Batch ID: G15673	TestNo: SW8260B(TP			Analysis Date:	3/17/2008	SeqNo: 224870		
Analyte	Result	PQL SPK value SF	K Ref Val	%REC	LowLimit Hi	ighLimit RPD Ref Val	%RPD RPDLimit	Qual	
TPH (Gasoline)	888.0	100 1000	0	88.8	48.2	132			
Surr: 4-Bromofllurobenzene	46.00	0 50	0	92.0	56.9	133			
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_	Units: µg/Kg		Prep Date:	3/17/2008	RunNo: 15673		
Client ID: ZZZZZ	Batch ID: G15673	TestNo: SW8260B(TP			Analysis Date:	3/17/2008	SeqNo: 224871		
Analyte	Result	PQL SPK value SF	K Ref Val	%REC	LowLimit Hi	ighLimit RPD Ref Val	%RPD RPDLimit	Qual	
TPH (Gasoline)	902.0	100 1000	0	90.2	48.2	132 888	1.56 30		
Surr: 4-Bromofllurobenzene	45.00	0 50	0	90.0	56.9	133 0	0 0		

Spike Recovery outside accepted recovery limits Page 1 of 3 S

Analyte detected below quantitation limits J

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: R15671

Sample ID: SDSG080314A-MB	SampType: MBLK	TestCode: TPHDOSG_S Units: mg/Kg	Prep Date: 3/14/2008	RunNo: 15671		
Client ID: ZZZZZ	Batch ID: R15671	TestNo: SW8015B	Analysis Date: 3/14/2008	SeqNo: 224800		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Diesel-SG)	ND	2.00				
TPH (Motor Oil-SG)	ND	4.00				
Surr: Pentacosane	3.325	0 3.3 0	101 28 125			
Sample ID: SDSG080314A-LCS	SampType: LCS	TestCode: TPHDOSG_S Units: mg/Kg	Prep Date: 3/14/2008	RunNo: 15671		
Client ID: ZZZZZ	Batch ID: R15671	TestNo: SW8015B	Analysis Date: 3/14/2008	SeqNo: 224801		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Diesel-SG)	28.94	2.00 33.33 0	86.8 26.6 128			
Surr: Pentacosane	3.344	0 3.3 0	101 28 125			
Sample ID: SDSG080314A-LCS	SampType: LCSD	TestCode: TPHDOSG_S Units: mg/Kg	Prep Date: 3/14/2008	RunNo: 15671		
Client ID: ZZZZZ	Batch ID: R15671	TestNo: SW8015B	Analysis Date: 3/14/2008	SeqNo: 224802		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Diesel-SG)	33.20	2.00 33.33 0	99.6 26.6 128 28.94	13.7 30		
Surry Dontogoono	3 700	0 33 0	115 28 125 0	0 0		

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RPD outside accepted recovery limits R

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: R15673

SampType: MBLK	TestCo	de: 8260B_S	Units: µg/Kg		Prep Date:	: 3/17/20	08	RunNo: 156	673	
Batch ID: R15673	Test	lo: SW8260B			Analysis Date:	: 3/17/20	08	SeqNo: 224		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ND	10									
ND	10									
ND	10									
ND	10									
ND	50									
ND	10									
ND	10									
ND	20									
55.32	0	50	0	111	55.8	141				
55.44	0	50	0	111	59.8	148				
47.28	0	50	0	94.6	55.2	133				
SampType: LCS	TestCoo	de: 8260B_S	Units: µg/Kg		Prep Date:	: 3/17/20	08	RunNo: 156	673	
Batch ID: R15673	Test	lo: SW8260B			Analysis Date:	3/17/2008		SeqNo: 224	1827	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	-lighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
50.92	10	50	0	102	66.5	135				
58.25	10	50	0	116	56.8	134				
52.92	0	50	0	106	55.8	141				
46.86	0	50	0	93.7	59.8	148				
51.14	0	50	0	102	55.2	133				
SampType: LCSD	TestCoo	de: 8260B_S	Units: µg/Kg		Prep Date:	: 3/17/20	08	RunNo: 156	673	
Batch ID: R15673	Test	lo: SW8260B			Analysis Date:	: 3/17/20	08	SeqNo: 224	1828	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
52.68	10	50	0	105	66.5	135	50.92	3.40	30	
58.55	10	50	0	117	56.8	134	58.25	0.514	30	
55.46	0	50	0	111	55.8	141	0	0	0	
48.57	0	50	0	97.1	59.8	148	0	0	0	
52.79	0	50	0	106	55.2	133	0	0	0	
= -	SampType: MBLK Batch ID: R15673 Result ND ND ND ND ND ND ND ND ND S5.32 55.44 47.28 SampType: LCS Batch ID: R15673 Result SampType: LCS 53.25 52.92 46.86 51.14 SampType: LCSD Batch ID: R15673 Result SampType: LCSD S8.25 52.92 46.86 51.14	SampType: MBLK TestCod Batch ID: R15673 TestM Result PQL ND 10 ND 10 ND 20 55.32 0 55.32 0 55.44 0 47.28 0 SampType: LCS TestCod Batch ID: R15673 TestN Result PQL 10 52.92 0 46.86 0 51.14 0 0 10 SampType: LCSD TestNo 10 SampType: LCSD TestNo 10 SampType: S2.68	SampType: MBLK TestCode: 8260B_S Batch ID: R15673 TestNo: SW8260B Result PQL SPK value ND 10 ND 10 ND 10 ND 20 55.32 0 50 50 55.44 0 50 50 55.44 0 50 50 SampType: LCS TestCot:: 8260B_S Batch ID: R15673 TestNo: SW8260B S0.92 10 50 50 52.92 0 50 50 52.92 0 50 50 51.14 0 50 50 52.92 TestNo: SW82	SampType: MBLK TestCode: 8260B_S Units: µg/Kg Batch ID: R15673 TestNo: SPK value SPK Ref Val ND 10 SPK Value SPK Ref Val ND 10 SPK Ref Val ND ND 10 SPK Ref Val SPK Ref Val ND 10 SPK SetS SPK SetS ND 10 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Units: µg/Kg Batch ID: R15673 TestNo: SPK value SPK Ref Val %REC ND 10 SPK Ref Val %REC %REC ND 10 SPK Ref Val %REC ND 10 SPK SPK Ref Val SPK ND 20 SPK SPK Ref Val SPK S5.32 0 50 0 111 55.44 0 50 0 111 47.28 0 50 0 111 47.28 TestCote: 8260B_S Units: µg/Kg Batch ID: R15673 TestCote: SPK Ref Val %REC 50.92 10 50 0 102 <td>SampType: MBLK TestCode: 8260B_S Units: µg/Kg Prep Date Batch ID: R15673 TestNo: SW8260B SPK Ref Val %REC LowLimit I ND 10 SPK value SPK Ref Val %REC LowLimit I ND 10 ND 10 SPK ref Val %REC LowLimit I ND 10 ND 10 SPK ref Val %REC LowLimit I ND 10 ND 10 SPK SPK ref Val %REC LowLimit I ND 10 ND 10 SPK SPK ref Val <t< td=""><td>SampType: MBLK TestCode: 8260B_S Units: µµ/Kg Prep Date: 3/17/20 Batch ID: R15673 TestNo: SW8260B SPK value SPK Ref Val %REC LowLimit HighLimit ND 10 SPK value SPK Ref Val %REC LowLimit HighLimit ND 10 ND 10 SPK value SPK Ref Val %REC LowLimit HighLimit ND 10 ND 10 SPK value SS value SS value SS value SS value SS value SSV</td><td>SampType: MBLK 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RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits Page 3 of 3

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April 10, 2008

Mr. Joseph Cotton Impact Environmental Services 39120 Arogonat Way, Suite 223 Fremont, CA 94538

TEL: 510-703-5420 FAX 510-713-7790

RE: 1409-1417 12th St

Dear Mr. Joseph Cotton:

Order No.: 0804029

Torrent Laboratory, Inc. received 7 samples on 4/3/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

Patti Sandrock QA Officer

<u>4/14/6</u> Date



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 4/3/2008 **Date Reported:**

Client Sample ID:	MW-6:5'
Sample Location:	1409-1417 12th St
Sample Matrix:	SOIL
Date/Time Sampled	4/2/2008 9:30:00 AM

Lab Sample ID: 0804029-001 Date Prepared: 4/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Lead	SW6010B	4/4/2008	1	1	1.0	3.4	mg/Kg	4269
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
Surr: Pentacosane	SW8015B SW8015B	4/8/2008 4/8/2008	4 0	1	4.00 28-125	93.6	%REC	R15886
Benzene	SW8260B	4/4/2008	5	1	5.0	ND	μg/Kg	R15872
Diisopropyl ether (DIPE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethyl tert-butyl ether (ETBE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethylbenzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Methyl tert-butyl ether (MTBE)	SW8260B	4/4/2008	10	1	10	ND	µg/Kg	R15872
t-Butyl alcohol (t-Butanol)	SW8260B	4/4/2008	50	1	50	ND	µg/Kg	R15872
tert-Amyl methyl ether (TAME)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Toluene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Xylenes, Total	SW8260B	4/4/2008	15	1	15	ND	µg/Kg	R15872
Surr: 4-Bromofluorobenzene	SW8260B	4/4/2008	0	1	55.8-141	101	%REC	R15872
Surr: Dibromofluoromethane	SW8260B	4/4/2008	0	1	59.8-148	100	%REC	R15872
Surr: Toluene-d8	SW8260B	4/4/2008	0	1	55.2-133	105	%REC	R15872
TPH (Gasoline)	SW8260B(TPH)	4/4/2008	100	1	100	ND	µg/Kg	G15872
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/4/2008	0	1	56.9-133	94.0	%REC	G15872

Date Received: 4/3/2008 **Date Reported:**

Lab Sample ID: 0804029-002 Date Prepared: 4/4/2008

Client Sample ID:MW-6:10'Sample Location:1409-1417 12th StSample Matrix:SOILDate/Time Sampled4/2/2008 9:45:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
TPH (Motor Oil-SG)	SW8015B	4/8/2008	4	1	4.00	ND	mg/Kg	R15886
Surr: Pentacosane	SW8015B	4/8/2008	0	1	28-125	101	%REC	R15886
Benzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Diisopropyl ether (DIPE)	SW8260B	4/4/2008	5	1	5.0	ND	μg/Kg	R15872
Ethyl tert-butyl ether (ETBE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethylbenzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Methyl tert-butyl ether (MTBE)	SW8260B	4/4/2008	10	1	10	ND	µg/Kg	R15872
t-Butyl alcohol (t-Butanol)	SW8260B	4/4/2008	50	1	50	ND	µg/Kg	R15872
tert-Amyl methyl ether (TAME)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Toluene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Xylenes, Total	SW8260B	4/4/2008	15	1	15	ND	µg/Kg	R15872
Surr: 4-Bromofluorobenzene	SW8260B	4/4/2008	0	1	55.8-141	92.2	%REC	R15872
Surr: Dibromofluoromethane	SW8260B	4/4/2008	0	1	59.8-148	103	%REC	R15872
Surr: Toluene-d8	SW8260B	4/4/2008	0	1	55.2-133	114	%REC	R15872
TPH (Gasoline)	SW8260B(TPH)	4/4/2008	100	1	100	ND	µg/Kg	G15872
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/4/2008	0	1	56.9-133	78.0	%REC	G15872

Date Received: 4/3/2008 **Date Reported:**

Lab Sample ID: 0804029-003 Date Prepared: 4/4/2008

Client Sample ID:MW-6:15'Sample Location:1409-1417 12th StSample Matrix:SOILDate/Time Sampled4/3/2008 10:10:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
TPH (Motor Oil-SG)	SW8015B	4/8/2008	4	1	4.00	ND	mg/Kg	R15886
Surr: Pentacosane	SW8015B	4/8/2008	0	1	28-125	102	%REC	R15886
Benzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Diisopropyl ether (DIPE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethyl tert-butyl ether (ETBE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethylbenzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Methyl tert-butyl ether (MTBE)	SW8260B	4/4/2008	10	1	10	ND	µg/Kg	R15872
t-Butyl alcohol (t-Butanol)	SW8260B	4/4/2008	50	1	50	ND	µg/Kg	R15872
tert-Amyl methyl ether (TAME)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Toluene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Xylenes, Total	SW8260B	4/4/2008	15	1	15	ND	µg/Kg	R15872
Surr: 4-Bromofluorobenzene	SW8260B	4/4/2008	0	1	55.8-141	106	%REC	R15872
Surr: Dibromofluoromethane	SW8260B	4/4/2008	0	1	59.8-148	106	%REC	R15872
Surr: Toluene-d8	SW8260B	4/4/2008	0	1	55.2-133	104	%REC	R15872
TPH (Gasoline)	SW8260B(TPH)	4/4/2008	100	1	100	ND	µg/Kg	G15872
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/4/2008	0	1	56.9-133	84.0	%REC	G15872

Client Sample ID: GW-2:5' Sample Location: 1409-1417 12th St

Sample Matrix:SOILDate/Time Sampled4/3/2008 1:30:00 PM

Date Received: 4/3/2008 **Date Reported:**

Lab Sample ID: 0804029-004 Date Prepared: 4/4/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Lead	SW6010B	4/4/2008	1	1	1.0	2.9	mg/Kg	4269
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
TPH (Motor Oil-SG) Surr: Pentacosane	SW8015B SW8015B	4/8/2008 4/8/2008	4 0	1 1	4.00 28-125	ND 91.1	mg/Kg %REC	R15886 R15886
Benzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Diisopropyl ether (DIPE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethyl tert-butyl ether (ETBE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethylbenzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Methyl tert-butyl ether (MTBE)	SW8260B	4/4/2008	10	1	10	ND	µg/Kg	R15872
t-Butyl alcohol (t-Butanol)	SW8260B	4/4/2008	50	1	50	ND	µg/Kg	R15872
tert-Amyl methyl ether (TAME)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Toluene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Xylenes, Total	SW8260B	4/4/2008	15	1	15	ND	µg/Kg	R15872
Surr: 4-Bromofluorobenzene	SW8260B	4/4/2008	0	1	55.8-141	102	%REC	R15872
Surr: Dibromofluoromethane	SW8260B	4/4/2008	0	1	59.8-148	106	%REC	R15872
Surr: Toluene-d8	SW8260B	4/4/2008	0	1	55.2-133	108	%REC	R15872
TPH (Gasoline)	SW8260B(TPH)	4/4/2008	100	1	100	ND	µg/Kg	G15872
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/4/2008	0	1	56.9-133	86.0	%REC	G15872

Date Received: 4/3/2008 **Date Reported:**

Lab Sample ID: 0804029-005 Date Prepared: 4/4/2008

Client Sample ID:GW-2:10'Sample Location:1409-1417 12th StSample Matrix:SOILDate/Time Sampled4/3/2008 2:00:00 PM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
TPH (Motor Oil-SG)	SW8015B	4/8/2008	4	1	4.00	ND	mg/Kg	R15886
Surr: Pentacosane	SW8015B	4/8/2008	0	1	28-125	94.3	%REC	R15886
Benzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Diisopropyl ether (DIPE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethyl tert-butyl ether (ETBE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethylbenzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Methyl tert-butyl ether (MTBE)	SW8260B	4/4/2008	10	1	10	ND	µg/Kg	R15872
t-Butyl alcohol (t-Butanol)	SW8260B	4/4/2008	50	1	50	ND	µg/Kg	R15872
tert-Amyl methyl ether (TAME)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Toluene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Xylenes, Total	SW8260B	4/4/2008	15	1	15	ND	µg/Kg	R15872
Surr: 4-Bromofluorobenzene	SW8260B	4/4/2008	0	1	55.8-141	101	%REC	R15872
Surr: Dibromofluoromethane	SW8260B	4/4/2008	0	1	59.8-148	109	%REC	R15872
Surr: Toluene-d8	SW8260B	4/4/2008	0	1	55.2-133	103	%REC	R15872
TPH (Gasoline)	SW8260B(TPH)	4/4/2008	100	1	100	ND	µg/Kg	G15872
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/4/2008	0	1	56.9-133	82.0	%REC	G15872

Date Received: 4/3/2008 **Date Reported:**

Lab Sample ID: 0804029-006 Date Prepared: 4/4/2008

Client Sample ID:GW-2:15'Sample Location:1409-1417 12th StSample Matrix:SOILDate/Time Sampled4/3/2008 2:30:00 PM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
TPH (Motor Oil-SG)	SW8015B	4/8/2008	4	1	4.00	ND	mg/Kg	R15886
Surr: Pentacosane	SW8015B	4/8/2008	0	1	28-125	95.6	%REC	R15886
Benzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Diisopropyl ether (DIPE)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Ethyl tert-butyl ether (ETBE)	SW8260B	4/4/2008	5	1	5.0	ND	μg/Kg	R15872
Ethylbenzene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Methyl tert-butyl ether (MTBE)	SW8260B	4/4/2008	10	1	10	ND	µg/Kg	R15872
t-Butyl alcohol (t-Butanol)	SW8260B	4/4/2008	50	1	50	ND	µg/Kg	R15872
tert-Amyl methyl ether (TAME)	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Toluene	SW8260B	4/4/2008	5	1	5.0	ND	µg/Kg	R15872
Xylenes, Total	SW8260B	4/4/2008	15	1	15	ND	µg/Kg	R15872
Surr: 4-Bromofluorobenzene	SW8260B	4/4/2008	0	1	55.8-141	100	%REC	R15872
Surr: Dibromofluoromethane	SW8260B	4/4/2008	0	1	59.8-148	109	%REC	R15872
Surr: Toluene-d8	SW8260B	4/4/2008	0	1	55.2-133	103	%REC	R15872
TPH (Gasoline)	SW8260B(TPH)	4/4/2008	100	1	100	ND	µg/Kg	G15872
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/4/2008	0	1	56.9-133	84.0	%REC	G15872

Date Received: 4/3/2008 **Date Reported:**

Client Sample ID: GW-2:18' Sample Location: Sample Matrix: SOIL **Date/Time Sampled**

1409-1417 12th St

4/3/2008 2:45:00 PM

Lab Sample ID: 0804029-007 **Date Prepared:** 4/7/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	4/8/2008	2	1	2.00	ND	mg/Kg	R15886
TPH (Motor Oil-SG)	SW8015B	4/8/2008	4	1	4.00	ND	mg/Kg	R15886
Surr: Pentacosane	SW8015B	4/8/2008	0	1	28-125	103	%REC	R15886
Benzene	SW8260B	4/7/2008	5	1	5.0	ND	µg/Kg	R15879
Diisopropyl ether (DIPE)	SW8260B	4/7/2008	5	1	5.0	ND	µg/Kg	R15879
Ethyl tert-butyl ether (ETBE)	SW8260B	4/7/2008	5	1	5.0	ND	µg/Kg	R15879
Ethylbenzene	SW8260B	4/7/2008	5	1	5.0	ND	µg/Kg	R15879
Methyl tert-butyl ether (MTBE)	SW8260B	4/7/2008	10	1	10	ND	µg/Kg	R15879
t-Butyl alcohol (t-Butanol)	SW8260B	4/7/2008	50	1	50	ND	µg/Kg	R15879
tert-Amyl methyl ether (TAME)	SW8260B	4/7/2008	5	1	5.0	ND	µg/Kg	R15879
Toluene	SW8260B	4/7/2008	5	1	5.0	ND	µg/Kg	R15879
Xylenes, Total	SW8260B	4/7/2008	15	1	15	ND	µg/Kg	R15879
Surr: 4-Bromofluorobenzene	SW8260B	4/7/2008	0	1	55.8-141	107	%REC	R15879
Surr: Dibromofluoromethane	SW8260B	4/7/2008	0	1	59.8-148	95.4	%REC	R15879
Surr: Toluene-d8	SW8260B	4/7/2008	0	1	55.2-133	98.6	%REC	R15879
TPH (Gasoline)	SW8260B(TPH)	4/7/2008	100	1	100	ND	µg/Kg	G15879
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	4/7/2008	0	1	56.9-133	92.0	%REC	G15879

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

CLIENT: Impact Environmental Services Work Order: 0804029 **Project:** 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: 4269

Sample ID: MB-4269 Client ID: ZZZZZ	SampType: MBLK Batch ID: 4269	TestCode: 6010B_S Units: TestNo: SW6010B (SW305)	mg/Kg Prep Date: 4/4/2008 50B) Analysis Date: 4/4/2008	RunNo: 15867 SeqNo: 227690
Analyte	Result	PQL SPK value SPK Ref Va	al %REC LowLimit HighLimit RPI	D Ref Val %RPD RPDLimit Qual
Lead	ND	1.0		
Sample ID: LCS-4269 Client ID: ZZZZZ	SampType: LCS Batch ID: 4269	TestCode: 6010B_S Units: TestNo: SW6010B (SW309)	mg/Kg Prep Date: 4/4/2008 50B) Analysis Date: 4/4/2008	RunNo: 15867 SeqNo: 227688
Analyte	Result	PQL SPK value SPK Ref Va	al %REC LowLimit HighLimit RPI	D Ref Val %RPD RPDLimit Qual
Lead	50.65	1.0 50	0 101 67.9 118	
Sample ID: LCSD-4269 Client ID: ZZZZZ	SampType: LCSD Batch ID: 4269	TestCode: 6010B_S Units: TestNo: SW6010B (SW309)	mg/Kg Prep Date: 4/4/2008 50B) Analysis Date: 4/4/2008	RunNo: 15867 SeqNo: 227689
Analyte	Result	PQL SPK value SPK Ref Va	al %REC LowLimit HighLimit RPI	D Ref Val %RPD RPDLimit Qual
Lead	51.30	1.0 50	0 103 67.9 118	50.65 1.28 30

RPD outside accepted recovery limits

R

Analyte detected below quantitation limits J

Project: 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: G15872

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_S_	Units: µg/Kg	Prep Date: 4/4/2008			RunNo: 15872		
Client ID: ZZZZZ	Batch ID: G15872	TestNo: SW8260B(TP		Analysis Date: 4/4/2008			SeqNo: 227801		
Analyte	Result	PQL SPK value SP	K Ref Val	%REC	LowLimit Hi	ighLimit RPD Ref Val	%RPD RPDLimit	Qual	
TPH (Gasoline)	ND	100							
Surr: 4-Bromofllurobenzene	47.00	0 50	0	94.0	56.9	133			
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_	Units: µg/Kg		Prep Date:	4/4/2008	RunNo: 15872		
Client ID: ZZZZZ	Batch ID: G15872	TestNo: SW8260B(TP			Analysis Date:	4/4/2008	SeqNo: 227802		
Analyte	Result	PQL SPK value SP	K Ref Val	%REC	LowLimit Hi	ighLimit RPD Ref Val	%RPD RPDLimit	Qual	
TPH (Gasoline)	979.0	100 1000	34	94.5	48.2	132			
Surr: 4-Bromofllurobenzene	48.00	0 50	0	96.0	56.9	133			
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_	Units: µg/Kg		Prep Date:	4/4/2008	RunNo: 15872		
Client ID: ZZZZZ	Batch ID: G15872	TestNo: SW8260B(TP			Analysis Date:	4/4/2008	SeqNo: 227803		
Analyte	Result	PQL SPK value SP	K Ref Val	%REC	LowLimit Hi	ighLimit RPD Ref Val	%RPD RPDLimit	Qual	
TPH (Gasoline)	962.0	100 1000	34	92.8	48.2	132 979	1.75 30		
Surr: 4-Bromofllurobenzene	49.00	0 50	0	98.0	56.9	133 0	0 0		

R

Spike Recovery outside accepted recovery limits Page 2 of 8 S

Analyte detected below quantitation limits J

Project: 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: G15879

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 4/7/2008	RunNo: 15879
Client ID: ZZZZZ	Batch ID: G15879	TestNo: SW8260B(TP	Analysis Date: 4/7/2008	SeqNo: 227910
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	ND	100		
Surr: 4-Bromofllurobenzene	47.00	0 50 0	94.0 56.9 133	
Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 4/7/2008	RunNo: 15879
Client ID: ZZZZZ	Batch ID: G15879	TestNo: SW8260B(TP	Analysis Date: 4/7/2008	SeqNo: 227911
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	931.0	100 1000 26	90.5 48.2 132	
Surr: 4-Bromofllurobenzene	45.00	0 50 0	90.0 56.9 133	
Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_S_ Units: µg/Kg	Prep Date: 4/7/2008	RunNo: 15879
Client ID: ZZZZZ	Batch ID: G15879	TestNo: SW8260B(TP	Analysis Date: 4/7/2008	SeqNo: 227912
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Gasoline)	939.0	100 1000 26	91.3 48.2 132 931	0.856 30
Surr: 4-Bromofllurobenzene	49.00	0 50 0	98.0 56.9 133 0	0 0

Value above quantitation range **Qualifiers:** Е

Analyte detected below quantitation limits J

Project:

1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: R15872

Sample ID: MB-17	SampType: MBLK	TestCoo	de: 8260B_S	Units: µg/Kg		Prep Date	e: 4/4/200	8	RunNo: 15	372	
Client ID: ZZZZZ	Batch ID: R15872	TestN	lo: SW8260B			Analysis Date	e: 4/4/200	8	SeqNo: 22	7776	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	15									
Surr: 4-Bromofluorobenzene	52.01	0	50	0	104	55.8	141				
Surr: Dibromofluoromethane	49.56	0	50	0	99.1	59.8	148				
Surr: Toluene-d8	51.00	0	50	0	102	55.2	133				
Sample ID: LCS-17	SampType: LCS	TestCoo	de: 8260B_S	Units: µg/Kg		Prep Date	e: 4/4/200	8	RunNo: 158	372	
Client ID: ZZZZZ	Batch ID: R15872	TestN	lo: SW8260B			Analysis Date	e: 4/4/200	8	SeqNo: 22	7777	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.30	10	50	0	84.6	66.5	135				
Toluene	54.17	10	50	0	108	56.8	134				
Surr: 4-Bromofluorobenzene	53.69	0	50	0	107	55.8	141				
Surr: Dibromofluoromethane	40.80	0	50	0	81.6	59.8	148				
Surr: Toluene-d8	54.12	0	50	0	108	55.2	133				
Sample ID: LCSD-17	SampType: LCSD	TestCoo	de: 8260B_S	Units: µg/Kg		Prep Date	e: 4/4/200	8	RunNo: 158	372	
Client ID: ZZZZZ	Batch ID: R15872	TestN	lo: SW8260B			Analysis Date	e: 4/4/200	8	SeqNo: 22	7778	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.52	10	50	0	93.0	66.5	135	42.3	9.50	30	
Toluene	56.83	10	50	0	114	56.8	134	54.17	4.79	30	
Surr: 4-Bromofluorobenzene	46.45	0	50	0	92.9	55.8	141	0	0	0	
Surr: Dibromofluoromethane	41.77	0	50	0	83.5	59.8	148	0	0	0	
Surr: Toluene-d8	54.47	0	50	0	109	55.2	133	0	0	0	

Value above quantitation range Qualifiers: Е

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J S

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits Page 4 of 8

Project: 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: R15879

Sample ID: mb	SampType: MBLK	TestCo	de: 8260B_S	Units: µg/Kg		Prep Dat	e: 4/7/200	8	RunNo: 158	879	
Client ID: ZZZZZ	Batch ID: R15879	TestN	lo: SW8260B			Analysis Dat	e: 4/7/200	8	SeqNo: 22	7890	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	15									
Surr: 4-Bromofluorobenzene	52.34	0	50	0	105	55.8	141				
Surr: Dibromofluoromethane	54.45	0	50	0	109	59.8	148				
Surr: Toluene-d8	49.82	0	50	0	99.6	55.2	133				
Sample ID: Ics	SampType: LCS	TestCo	de: 8260B_S	Units: µg/Kg		Prep Dat	e: 4/7/200	8	RunNo: 158	879	
Client ID: ZZZZZ	Batch ID: R15879	Test	lo: SW8260B			Analysis Dat	e: 4/7/200	8	SeqNo: 22	7891	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.80	10	50	0	93.6	66.5	135				
Toluene	56.48	10	50	0	113	56.8	134				
Surr: 4-Bromofluorobenzene	54.11	0	50	0	108	55.8	141				
Surr: Dibromofluoromethane	43.52	0	50	0	87.0	59.8	148				
Surr: Toluene-d8	53.56	0	50	0	107	55.2	133				
Sample ID: Icsd	SampType: LCSD	TestCo	de: 8260B_S	Units: µg/Kg		Prep Dat	e: 4/7/200	8	RunNo: 158	879	
Client ID: ZZZZZ	Batch ID: R15879	Test	lo: SW8260B			Analysis Dat	e: 4/7/200	8	SeqNo: 227	7892	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.82	10	50	0	93.6	66.5	135	46.8	0.0427	30	
Toluene	56.45	10	50	0	113	56.8	134	56.48	0.0531	30	
Surr: 4-Bromofluorobenzene	53.75	0	50	0	108	55.8	141	0	0	0	
Surr: Dibromofluoromethane	43.44	0	50	0	86.9	59.8	148	0	0	0	
Surr: Toluene-d8	54.01	0	50	0	108	55.2	133	0	0	0	

Value above quantitation range **Qualifiers:** Е

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J S

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits Page 5 of 8

Project:

0804029 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: R15879

Sample ID: 0804029-007A MS	SampType: MS	TestCoo	de: 8260B_S_	PE Units: µg/Kg		Prep Date: 4/7/2008			RunNo: 15879			
Client ID: GW-2:18'	Batch ID: R15879	TestN	lo: SW8260B			Analysis Date: 4/7/2008				SeqNo: 227894		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	37.93	5.0	50	0	75.9	66.5	135					
Toluene	46.88	5.0	50	0	93.8	56.8	134					
Surr: 4-Bromofluorobenzene	49.10	0	50	0	98.2	55.8	141					
Surr: Dibromofluoromethane	40.81	0	50	0	81.6	59.8	148					
Surr: Toluene-d8	51.12	0	50	0	102	55.2	133					
Sample ID: 0804029-007A MSD	SampType: MSD	TestCoo	de: 8260B_S_	PE Units: µg/Kg		Prep Dat	e: 4/7/200	8	RunNo: 158	379		
Sample ID: 0804029-007A MSD Client ID: GW-2:18'	SampType: MSD Batch ID: R15879	TestCoo TestN	de: 8260B_S_ No: SW8260B	PE Units: µg/Kg		Prep Dat Analysis Dat	e: 4/7/200 e: 4/7/200	8	RunNo: 158 SeqNo: 227	379 7895		
Sample ID: 0804029-007A MSD Client ID: GW-2:18' Analyte	SampType: MSD Batch ID: R15879 Result	TestCoo TestN PQL	de: 8260B_S_ lo: SW8260B SPK value	PE Units: µg/Kg SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 4/7/200 e: 4/7/200 HighLimit	8 8 RPD Ref Val	RunNo: 158 SeqNo: 227 %RPD	3 79 7 895 RPDLimit	Qual	
Sample ID: 0804029-007A MSD Client ID: GW-2:18' Analyte Benzene	SampType: MSD Batch ID: R15879 Result 40.45	TestCoo TestN PQL 5.0	de: 8260B_S_ lo: SW8260B SPK value 50	PE Units: µg/Kg SPK Ref Val 0	%REC 80.9	Prep Dat Analysis Dat LowLimit 66.5	e: 4/7/200 e: 4/7/200 HighLimit 135	8 8 RPD Ref Val 37.93	RunNo: 158 SeqNo: 227 %RPD 6.43	379 7895 RPDLimit 30	Qual	
Sample ID: 0804029-007A MSD Client ID: GW-2:18' Analyte Benzene Toluene	SampType: MSD Batch ID: R15879 Result 40.45 50.48	TestCoo TestN PQL 5.0 5.0	de: 8260B_S_ lo: SW8260B SPK value 50 50	PE Units: µg/Kg SPK Ref Val 0 0	%REC 80.9 101	Prep Dat Analysis Dat LowLimit 66.5 56.8	e: 4/7/200 e: 4/7/200 HighLimit 135 134	8 8 RPD Ref Val 37.93 46.88	RunNo: 158 SeqNo: 227 %RPD 6.43 7.40	379 7895 RPDLimit 30 30	Qual	
Sample ID: 0804029-007A MSD Client ID: GW-2:18' Analyte Benzene Toluene Surr: 4-Bromofluorobenzene	SampType: MSD Batch ID: R15879 Result 40.45 50.48 51.44	TestCoo TestN PQL 5.0 5.0 0	de: 8260B_S_ lo: SW8260B SPK value 50 50 50	PE Units: µg/Kg SPK Ref Val 0 0 0	%REC 80.9 101 103	Prep Dat Analysis Dat LowLimit 66.5 56.8 55.8	e: 4/7/200 e: 4/7/200 HighLimit 135 134 141	8 8 RPD Ref Val 37.93 46.88 0	RunNo: 158 SeqNo: 227 %RPD 6.43 7.40 0	379 7895 RPDLimit 30 30 0	Qual	
Sample ID: 0804029-007A MSD Client ID: GW-2:18' Analyte Benzene Toluene Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	SampType: MSD Batch ID: R15879 Result 40.45 50.48 51.44 39.93	TestCoo TestN PQL 5.0 5.0 0 0	de: 8260B_S_ lo: SW8260B SPK value 50 50 50 50	PE Units: µg/Kg SPK Ref Val 0 0 0 0	%REC 80.9 101 103 79.9	Prep Dat Analysis Dat LowLimit 66.5 56.8 55.8 59.8	e: 4/7/200 e: 4/7/200 HighLimit 135 134 141 148	8 8 RPD Ref Val 37.93 46.88 0 0	RunNo: 158 SeqNo: 227 %RPD 6.43 7.40 0 0	379 7895 RPDLimit 30 30 0 0	Qual	

R

S

Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 6 of 8

Impact Environmental Services **CLIENT:** Work Order: 0804029

Project: 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: R15886

Sample ID: SDSG080408A-MB	SampType: MBLK	TestCode: TPHDOSG_S Unit	s: mg/Kg	Prep Date: 4/7/2008	RunNo: 15886
Client ID: ZZZZZ	Batch ID: R15886	TestNo: SW8015B		Analysis Date: 4/8/2008	SeqNo: 228015
Analyte	Result	PQL SPK value SPK Ref	Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Diesel-SG)	ND	2.00			
TPH (Motor Oil-SG)	ND	4.00			
Surr: Pentacosane	3.426	0 3.3	0 104	28 125	
Sample ID: SDSG080407A-LCS	SampType: LCS	TestCode: TPHDOSG_S Unit	s: mg/Kg	Prep Date: 4/7/2008	RunNo: 15886
Client ID: ZZZZZ	Batch ID: R15886	TestNo: SW8015B		Analysis Date: 4/8/2008	SeqNo: 228016
Analyte	Result	PQL SPK value SPK Ref	Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Diesel-SG)	26.63	2.00 33.33	0 79.9	26.6 128	
Surr: Pentacosane	3.228	0 3.3	0 97.8	28 125	
Sample ID: SDSG080407A-LCS	SampType: LCSD	TestCode: TPHDOSG_S Unit	s: mg/Kg	Prep Date: 4/7/2008	RunNo: 15886
Client ID: ZZZZZ	Batch ID: R15886	TestNo: SW8015B		Analysis Date: 4/8/2008	SeqNo: 228017
Analyte	Result	PQL SPK value SPK Ref	Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Diesel-SG)	28.47	2.00 33.33	0 85.4	26.6 128 26.63	6.67 30
Surr: Pentacosane	3.293	0 3.3	0 99.8	28 125 0	0 0
Sample ID: 0804029-002A MS	SampType: MS	TestCode: TPHDOSG_S Unit	s: mg/Kg	Prep Date: 4/7/2008	RunNo: 15886
Client ID: MW-6:10'	Batch ID: R15886	TestNo: SW8015B		Analysis Date: 4/8/2008	SeqNo: 228025
Analyte	Result	PQL SPK value SPK Ref	Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Diesel-SG)	26.90	2.00 33.33	0 80.7	26.6 128	
Surr: Pentacosane	3.071	0 3.3	0 93.1	28 125	
Sample ID: 0804029-002A MSD	SampType: MSD	TestCode: TPHDOSG_S Unit	s: mg/Kg	Prep Date: 4/7/2008	RunNo: 15886
Client ID: MW-6:10'	Batch ID: R15886	TestNo: SW8015B		Analysis Date: 4/8/2008	SeqNo: 228026
Analyte	Result	PQL SPK value SPK Ref	Val %REC	LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
TPH (Diesel-SG)	26.33	2.00 33.33	0 79.0	26.6 128 26.9	2.16 30
Oualifiers: E Value above o	uantitation range	H Holding times for	preparation or analys	is exceeded J Analyte detected	below quantitation limits

ND Not Detected at the Reporting Limit

prepar

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits Page 7 of 8

CLIENT: Impact Environmental Services Work Order: 0804029 **Project:** 1409-1417 12th St

ANALYTICAL QC SUMMARY REPORT

BatchID: R15886

Sample ID: 0804029-002A MSD	SampType: MSD	TestCoo	le: TPHDOSG	_S Units: mg/Kg		Prep Da	te: 4/7/200	8	RunNo: 158	386	
Client ID: MW-6:10'	Batch ID: R15886	TestN	lo: SW8015B	PHDOSG_S Units: mg/Kg Prep Date: 4/7/2008 Ru W8015B Analysis Date: 4/8/2008 Se				SeqNo: 228026			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Pentacosane	2.969	0	3.3	0	90.0	28	125	0	0	0	

Value above quantitation range **Qualifiers:** Е ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J S

Torrent Laboratory, Inc.

WORK ORDER Summary

04-Apr-08 Work Order 0804029

 Client ID:
 IMPACT ENV. SER.

 Project:
 1409-1417 12th St

QC Level:

Comments: 5 Day TAT!! Need EDF email to Joseph!

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0804029-001A	MW-6:5'	4/2/2008 9:30:00 AM	4/2/2008	4/9/2008	Soil	3050B_S					SR
				4/9/2008		6010B_S			\checkmark		SR
				4/9/2008		8260B_S_PETRO			✓		SR
				4/9/2008		EDF					SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR
0804029-002A	MW-6:10'	4/2/2008 9:45:00 AM		4/9/2008		8260B_S_PETRO			\checkmark		SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR
0804029-003A	MW-6:15'	4/3/2008 10:10:00 AM		4/9/2008		8260B_S_PETRO			\checkmark		SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR
0804029-004A	GW-2:5'	4/3/2008 1:30:00 PM		4/9/2008		3050B_S					SR
				4/9/2008		6010B_S			✓		SR
				4/9/2008		8260B_S_PETRO			✓		SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR
0804029-005A	GW-2:10'	4/3/2008 2:00:00 PM		4/9/2008		8260B_S_PETRO			\checkmark		SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR
0804029-006A	GW-2:15'	4/3/2008 2:30:00 PM		4/9/2008		8260B_S_PETRO			\checkmark		SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR
0804029-007A	GW-2:18'	4/3/2008 2:45:00 PM		4/9/2008		8260B_S_PETRO			\checkmark		SR
				4/9/2008		TPH_GAS_S_GC					SR
				4/9/2008		TPHDOSG_S					SR

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	Torrent	483 Sinclair Frontag Milpitas, CA 95035 Phone: 408.263.529 FAX: 408.263.8293 www.torrentlab.com	ge Road 58	(• NO	(TE: SH/		VIN Areas	OF ARE F)Y USE (ONLY		LAB WORK ORDER NO のそりないこの
Company	Name: IMPACT EN	VIRON MENTAL			Locat	tion of S	Sampling	g: [4	09 -	-141	7	2+4	- 8	F	OAKLA.
Address:	39120 ARGONANT	WAY #22	3	<u> </u>	Purpo	ose: 🚺	vell	Th	stal	lat	2m		ha		and Pronett
City: F	REMONT Sta	ate: CIA	Zip Code:	94537	Speci	ial Instru	uctions	/ Comm	nents:	En	<u> </u>	0.	f.	24	Sine (
Telephor	10:(GLD) 703-5420 FAX	:(510) 791-	0271		\sim	Sals	183	to	\	ac	214	62	0	50	- Signed
REPORT	TO: Jos ash atten		anh (oton	P.O.	#:			2	,	EMAIL:	ja	c21	462	east, con
TURNAR	DUND TIME: k Days 3 Work Days Noon - No Days 2 Work Days 2 - 8 Hour Days 1 Work Day Other	t Day s SAMPLE TYPE Storm Water Waste Water Ground Water Soil	V Air Other	QC Leve QC Leve EDF Excel / R	FORMAT: el IV EDD	2A 8260B - Full List 2A 8260B - 8010 List	IP gas XBTEX vgenates XMTBE	IP Diesel XSi-Gel otor Oil	sticide - 8081	CB - 8082	CAM -,17	70 Full List Hs Only	ped (Terrer)		ANALYSIS REQUESTED
LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE		т о ДД				Metals	B⊿ 1000	L.		REMARKS
01A	B MW-6'S'	4-2-2/9:30	5		STAINLE STEEL	\$5	X	Х					X	- 14	
02A	MW-6'10'	4-2-8/9:45					X	Х							
03A	MW-6'15'	4-378/10:10	<u> </u>			a	X	Х							
04A	GW-2:5	4-3-81126		1		·	X	X					Х		ORRE
OSA	GW-2',10'	5 2:00					Х	\times			-	1			
061	Guo-21.151	5 2130		1			\times	\times							
57 A	Gw-2',18'	4-3-02:08	5	1	1		X	\checkmark							
															····································

4.,

Y

ł	Relinquished By: Print:	A (Date:	Time:	Received By Phin	nt: Date:	Time:
	Reinquitred By: Print:	n Lot In 4-3-8 Date:	3'.2.5 Time:	Received By:	$\frac{1}{12}$	28 3 25 Time:
l	Were Samples Received in Good Condition?	<u>2</u> <u>7-3-08</u> ∀Yes ∏ NO Samples on I		Method of Shinment	Li A Sample seals	
	NOTE: Samples are discarded by the labo	pratory 30 days from date of receipt	unless other arrang	ments are made.	Comple seals	
	Log In By:	Date:	Log In Reviewed By:		Date:	



May 07, 2008

Mr. Joseph Cotton Impact Environmental Services 39120 Arogonat Way, Suite 223 Fremont, CA 94538

TEL: 510-703-5420 FAX 510-713-7790

RE:

Dear Mr. Joseph Cotton:

Order No.: 0804218

Torrent Laboratory, Inc. received 8 samples on 4/30/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

Patti Sandrog QA Officer

5/7/08



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 4/30/2008 **Date Reported:**

Client Sample ID:	MW-1
Sample Location:	1409-1417 12th ST
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 1:40:00 PM

Lab Sample ID: 0804218-001 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/3/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/3/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/3/2008	0	1	53.3-124	99.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1	1.50	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1	61.2-131	94.1	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1	64.1-120	91.9	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1	75.1-127	102	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1	50	54x	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1	58.4-133	103	%REC	T16196

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline.

Date Received:	4/30/2008
Date Reported:	

Client Sample ID:MW-2Sample Location:1409-1417 12th STSample Matrix:WATERDate/Time Sampled4/30/2008 1:45:00 PM

Lab Sample ID: 0804218-002 Date Prepared: 5/1/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/3/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/3/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/3/2008	0	1	53.3-124	88.0	%REC	R16185
Benzene	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/1/2008	0.5	1	0.500	ND	μg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/1/2008	1.5	1	1.50	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/1/2008	0	1	61.2-131	114	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/1/2008	0	1	64.1-120	93.8	%REC	P16196
Surr: Toluene-d8	SW8260B	5/1/2008	0	1	75.1-127	112	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1	50	ND	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1	58.4-133	103	%REC	T16196

Date Received:	4/30/2008
Date Reported:	

Client Sample ID:MW-3Sample Location:1409-1417 12th STSample Matrix:WATERDate/Time Sampled4/30/2008 10:58:00 AM

Lab Sample ID: 0804218-003 Date Prepared: 5/1/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/5/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/5/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/5/2008	0	1	53.3-124	86.0	%REC	R16185
Benzene	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/1/2008	0.5	1	0.500	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/1/2008	1.5	1	1.50	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/1/2008	0	1	61.2-131	111	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/1/2008	0	1	64.1-120	98.2	%REC	P16196
Surr: Toluene-d8	SW8260B	5/1/2008	0	1	75.1-127	112	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/1/2008	50	1	50	ND	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/1/2008	0	1	58.4-133	94.8	%REC	T16196

Date Received:	4/30/2008
Date Reported:	

Client Sample ID:	MW-4
Sample Location:	1409-1417 12th ST
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 11:38:00 AM

Lab Sample ID: 0804218-004 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/5/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/5/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/5/2008	0	1	53.3-124	93.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1.22	0.610	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1.22	0.610	ND	μg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1.22	0.610	ND	μg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1.22	0.610	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1.22	1.83	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1.22	61.2-131	110	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1.22	64.1-120	94.0	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1.22	75.1-127	91.8	%REC	P16196
Note: Sample was diluted prior to an	alysis due to the sedimen	t in all voas.						
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1.16	58	ND	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1.16	58.4-133	94.8	%REC	T16196

Date Received:	4/30/2008
Date Reported:	

Client Sample ID:MW-5Sample Location:1409-1417 12th STSample Matrix:WATERDate/Time Sampled4/30/2008 2:21:00 PM

Lab Sample ID: 0804218-005 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/5/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/5/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/5/2008	0	1	53.3-124	77.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1.16	0.580	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1.16	0.580	ND	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1.16	0.580	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1.16	0.580	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1.16	1.74	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1.16	61.2-131	88.5	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1.16	64.1-120	98.9	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1.16	75.1-127	108	%REC	P16196
Note: Sample was diluted prior to ana	alysis due to the sedimen	t in all voas.						
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1.16	58	ND	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1.16	58.4-133	94.8	%REC	T16196

PM

Date Received:	4/30/2008
Date Reported:	

Client Sample ID:	MW-6
Sample Location:	1409-1417 12th ST
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 12:14:00

Lab Sample ID: 0804218-006 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/5/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/5/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/5/2008	0	1	53.3-124	73.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1	1.50	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1	61.2-131	84.4	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1	64.1-120	90.8	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1	75.1-127	96.5	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1	50	53x	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1	58.4-133	103	%REC	T16196

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline.
Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received:	4/30/2008
Date Reported:	

Client Sample ID: MW-7 Sample Location: 1409-1417 12th ST Sample Matrix: WATER **Date/Time Sampled**

4/30/2008 12:20:00 PM

Lab Sample ID: 0804218-007 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
		j						
TPH (Diesel)	SW8015B	5/5/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/5/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/5/2008	0	1	53.3-124	80.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1	1.50	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1	61.2-131	83.8	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1	64.1-120	89.8	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1	75.1-127	105	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1	50	ND	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1	58.4-133	94.8	%REC	T16196

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 4/30/2008 **Date Reported:**

Lab Sample ID: 0804218-008 Date Prepared: 5/2/2008

Client Sample ID:	MW-8
Sample Location:	1409-1417 12th ST
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 10:11:00 AM

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/6/2008	0.1	1	0.100	0.161x	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/6/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/6/2008	0	1	53.3-124	55.0	%REC	R16185
Note:x-Sample chromatogram does not res diesel range quantitated as diesel.	semble typical dies	el pattern (possibly	y fuel lighter	than diesel).	Lighter end	d hydrocarbon	s within the	
Benzene	SW8260B	5/2/2008	0.5	1	0.500	13.9	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1	0.500	9.76	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1	0.500	12.4	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1	1.50	160	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1	61.2-131	113	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1	64.1-120	102	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1	75.1-127	87.1	%REC	P16196
TPH (Casaliaa)		5/2/2008	50	1	50	1040v		T16106
		5/2/2000	00	1	UC	1049X	µg/L	T10190
Surr: 4-Bromoniurobenzene	2008(1PH)	5/2/2008	0	1	58.4-133	69.0	%REC	116196

Note: Although TPH as Gasoline constituents are present, results are elevated due to the presence of non-target compounds within range of C5-C12 quantified as Gasoline

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

Date: 07-May-08

CLIENT: Impact Environmental Services 0804218

Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: P16196

Sample ID: MB_P16196	SampType: MBLK	TestCo	de: 8260B_W	_PE Units: µg/L		Prep Dat	te: 5/1/200	8	RunNo: 16196			
Client ID: ZZZZZ	Batch ID: P16196	Test	lo: SW8260B			Analysis Dat	te: 5/1/200	8	SeqNo: 232	2729		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	ND	0.500										
Ethylbenzene	ND	0.500										
Methyl tert-butyl ether (MTBE)	ND	0.500										
Toluene	ND	0.500										
Xylenes, Total	ND	1.50										
Surr: Dibromofluoromethane	11.89	0	11.36	0	105	61.2	131					
Surr: 4-Bromofluorobenzene	11.17	0	11.36	0	98.3	64.1	120					
Surr: Toluene-d8	9.450	0	11.36	0	83.2	75.1	127					
Sample ID: LCS_P16196	SampType: LCS	TestCo	de: 8260B_W	_ PE Units: µg/L		Prep Dat	te: 5/1/200	8	RunNo: 161	96		
Client ID: ZZZZZ	Batch ID: P16196	Test	lo: SW8260B			Analysis Dat	te: 5/1/200	8	SeqNo: 232	2730		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	15.69	0.500	17.04	0	92.1	66.9	140					
Toluene	18.01	0.500	17.04	0	106	76.6	123					
Surr: Dibromofluoromethane	10.21	0	11.36	0	89.9	61.2	131					
Surr: 4-Bromofluorobenzene	10.19	0	11.36	0	89.7	64.1	120					
Surr: Toluene-d8	11.76	0	11.36	0	104	75.1	127					
Sample ID: LCSD_P16196	SampType: LCSD	TestCo	de: 8260B_W	_ PE Units: µg/L		Prep Dat	te: 5/1/200	8	RunNo: 161	96		
Client ID: ZZZZZ	Batch ID: P16196	Test	lo: SW8260B			Analysis Dat	te: 5/1/200	8	SeqNo: 232	2731		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	15.20	0.500	17.04	0	89.2	66.9	140	16.31	7.05	20		
Toluene	15.20	0.500	17.04	0	89.2	76.6	123	17.16	12.1	20		
Surr: Dibromofluoromethane	11.24	0	11.36	0	98.9	61.2	131	0	0	0		
Surr: 4-Bromofluorobenzene	11.69	0	11.36	0	103	64.1	120	0	0	0		
Surr: Toluene-d8	9.410	0	11.36	0	82.8	75.1	127	0	0	0		

Qualifiers:

Value above quantitation range Е

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits Spike Recovery outside accepted recovery limits Page 1 of 3 S

J

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

ANALYTICAL QC SUMMARY REPORT

BatchID: R16185

Sample ID: WD080501A-MB	SampType: MBLK	TestCode: TPHI	O_W Units: mg/L	-	Prep Da	te: 5/1/200	RunNo: 16185				
Client ID: ZZZZZ	Batch ID: R16185	TestNo: SW80)15B		Analysis Da	te: 5/1/200)8	SeqNo: 232322			
Analyte	Result	PQL SPK va	alue SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Diesel)	ND	0.100									
TPH (Motor Oil)	ND	0.200									
Surr: Pentacosane	0.07200	0	0.1 0	72.0	53.3	124					
Sample ID: WD080502A-MB	SampType: MBLK	TestCode: TPH	OO_W Units: mg/L		Prep Da	te: 5/2/200)8	RunNo: 16	185		
Client ID: ZZZZZ	Batch ID: R16185	TestNo: SW80)15B		Analysis Da	te: 5/3/200	08	SeqNo: 23	3008		
Analyte	Result	PQL SPK va	alue SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
TPH (Diesel)	ND	0.100									
TPH (Motor Oil)	ND	0.200									
Surr: Pentacosane	0.07900	0	0.1 0	79.0	53.3	124					
Surr: Pentacosane Sample ID: WD080501A-LCS	0.07900 SampType: LCS	0 TestCode: TPHI	0.1 0 00_W Units: mg/L	79.0	53.3 Prep Da	124 te: 5/1/200	08	RunNo: 16	185		
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ	0.07900 SampType: LCS Batch ID: R16185	0 TestCode: TPHI TestNo: SW8	0.1 0 DO_W Units: mg/L		53.3 Prep Da Analysis Da	te: 5/1/200 te: 5/1/200)8)8	RunNo: 16 SeqNo: 23	185 2323		
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte	0.07900 SampType: LCS Batch ID: R16185 Result	0 TestCode: TPHE TestNo: SW8(PQL SPK va	0.1 0 DO_W Units: mg/L D15B alue SPK Ref Val	79.0 %REC	53.3 Prep Da Analysis Da LowLimit	te: 5/1/20(te: 5/1/20(HighLimit	08 08 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit	Qual	
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel)	0.07900 SampType: LCS Batch ID: R16185 Result 0.5590	0 TestCode: TPHE TestNo: SW80 PQL SPK v: 0.100	0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0	79.0 %REC 55.9	53.3 Prep Da Analysis Da LowLimit 46.2	124 te: 5/1/200 te: 5/1/200 HighLimit 109	08 08 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit	Qual	
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane	0.07900 SampType: LCS Batch ID: R16185 Result 0.5590 0.09700	0 TestCode: TPHE TestNo: SW86 PQL SPK va 0.100 0	0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0 0.1 0	79.0 • • • • • • • • • • • • • • • • • • •	53.3 Prep Da Analysis Da LowLimit 46.2 53.3	124 te: 5/1/200 te: 5/1/200 HighLimit 109 124	08 08 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit	Qual	
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD	0.07900 SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD	0 TestCode: TPHE TestNo: SW86 PQL SPK va 0.100 0 TestCode: TPHE	0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0 0.1 0 00_W Units: mg/L	79.0 %REC 55.9 97.0	53.3 Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da	124 te: 5/1/200 te: 5/1/200 HighLimit 109 124 te: 5/1/200	08 08 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD RunNo: 16	185 2323 RPDLimit 185	Qual	
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD Client ID: ZZZZZ	0.07900 SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD Batch ID: R16185	0 TestCode: TPHE TestNo: SW80 PQL SPK va 0.100 0 TestCode: TPHE TestNo: SW80	0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0 0.1 0 00_W Units: mg/L 015B	79.0 • • • • • •	53.3 Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da Analysis Da	124 te: 5/1/200 te: 5/1/200 HighLimit 109 124 te: 5/1/200 te: 5/1/200	08 08 RPD Ref Val 08 08	RunNo: 16 SeqNo: 23 %RPD RunNo: 16 SeqNo: 23	185 2323 RPDLimit 185 2324	Qual	
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD Client ID: ZZZZZ Analyte	0.07900 SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD Batch ID: R16185 Result	0 TestCode: TPHE TestNo: SW80 PQL SPK va 0.100 0 TestCode: TPHE TestNo: SW80 PQL SPK va	0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0 0.1 0 00_W Units: mg/L 015B alue SPK Ref Val	79.0 %REC	53.3 Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da Analysis Da LowLimit	124 te: 5/1/200 te: 5/1/200 HighLimit 109 124 te: 5/1/200 te: 5/1/200 HighLimit	08 RPD Ref Val 08 08 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit 185 2324 RPDLimit	Qual	
Surr: Pentacosane Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD Client ID: ZZZZZ Analyte TPH (Diesel)	0.07900 SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD Batch ID: R16185 Result 0.5750	0 TestCode: TPHE TestNo: SW80 PQL SPK va 0.100 0 TestCode: TPHE TestNo: SW80 PQL SPK va 0.100	0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0 0.1 0 00_W Units: mg/L 015B alue SPK Ref Val 1 0	79.0 %REC 55.9 97.0 %REC 57.5	53.3 Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da Analysis Da LowLimit 46.2	124 te: 5/1/200 te: 5/1/200 HighLimit 109 124 te: 5/1/200 te: 5/1/200 te: 5/1/200 te: 5/1/200	08 RPD Ref Val 08 08 RPD Ref Val 0.559	RunNo: 16 SeqNo: 23 %RPD RunNo: 16 SeqNo: 23 %RPD 2.82	185 2323 RPDLimit 185 2324 RPDLimit 20	Qual	

Project:

Value above quantitation range **Qualifiers:** Е

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 2 of 3

S

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

ANALYTICAL QC SUMMARY REPORT

BatchID: T16196

Sample ID: MB_T16196	SampType: MBLK	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 5/2/2008	RunNo: 16196			
Client ID: ZZZZZ	Batch ID: T16196	TestNo: SW8260B(TP	Analysis Date: 5/2/2008	SeqNo: 232768			
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual			
TPH (Gasoline)	ND	50					
Surr: 4-Bromofllurobenzene	9.000	0 11.36 0	79.2 58.4 133				
Sample ID: LCS_T16196	SampType: LCS	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 5/2/2008	RunNo: 16196			
Client ID: ZZZZZ	Batch ID: T16196	TestNo: SW8260B(TP	Analysis Date: 5/2/2008	SeqNo: 232769			
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual			
TPH (Gasoline)	197.0	50 227 29	74.0 52.4 127				
Surr: 4-Bromofllurobenzene	11.00	0 11.36 0	96.8 58.4 133				
Sample ID: LCSD_T16196	SampType: LCSD	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 5/2/2008	RunNo: 16196			
Client ID: ZZZZZ	Batch ID: T16196	TestNo: SW8260B(TP	Analysis Date: 5/2/2008	SeqNo: 232770			
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual			
TPH (Gasoline)	192.0	50 227 29	71.8 52.4 127 197	2.57 20			
Surr: 4-Bromofllurobenzene	12.00	0 11.36 0	106 58.4 133 0	0 0			

Project:

S

Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 3 of 3

Torrent Laboratory, Inc.

WORK ORDER Summary

Client ID: IMPACT ENV. SER.

Project:

01-May-08 **Work Order** 0804218

Comments: 5 day TAT! Received 8 waters.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0804218-001A	MW-1	4/30/2008 1:40:00 PM	4/30/2008	5/6/2008	Water	8260B_W_PETRO			\checkmark		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-002A	MW-2	4/30/2008 1:45:00 PM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-003A	MW-3	4/30/2008 10:58:00 AM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-004A	MW-4	4/30/2008 11:38:00 AM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-005A	MW-5	4/30/2008 2:21:00 PM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-006A	MW-6	4/30/2008 12:14:00 PM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-007A	MW-7	4/30/2008 12:20:00 PM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804218-008A	MW-8	4/30/2008 10:11:00 AM		5/6/2008		8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR

QC Level:

			~ • •		1680 RO	GERS AVENUE	i		CON	IDUCT	ANAL	YSIS TO DETECT		LAB	Torrent Lab		DHS #
DLAI	IN C		SAN	N JUSE,	FAX	VIA 95112-1105 (408) 573-7771								MUST MEET SPECIFICATIONS			
TECH SERV	ICES,	INC.			PHONE	(408) 573-0555								EPA	t	RWQCB RE	GION
CHAIN OF CUST	ODY	BTS				······										0800	4218
CLIENT	Impac	t Env	ironr	nenta	I Servio	ces	1							SPECIAL INSTRUCTION	ONS		
SITE	1409-	1417	12th	St			1							Invoice and Report to	o: Impact Env	Services	
	Oakla	$\frac{1+1}{2}$	<u>1201</u>			··· <u>·</u> ································	1				Oil			Atta: Jasanh Catton	. Impact Env.	Sel Vices	
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MW - 2	T	13	45	Ś	5			X	X	X	X						0212
mw - 3		10	58	W	5			X	X	X	X						03A
mw-4	T	. 113	38	\sim	5			X	X	x	X						0412
MW-5	T	14	121	\sim	5			X	X	x	X						05P
mw-6	T	12	214	\sim	5		·	X	X	X	x						OFF
MW-7-	T	12	20	\checkmark	5			X	X	x	K						920
mw-8	$\overline{\mathbf{V}}$	10		W	5			X	K	X	X						5 8P
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SAMPLING		Тім					-							RESULTS NEEDED	· · ·		
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May 07, 2008

Mr. Joseph Cotton Impact Environmental Services 39120 Arogonat Way, Suite 223 Fremont, CA 94538

TEL: 510-703-5420 FAX 510-713-7790

RE:

Dear Mr. Joseph Cotton:

Order No.: 0804219

Torrent Laboratory, Inc. received 3 samples on 4/30/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

Patti Sandrock QA Officer

2/88



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 4/30/2008 **Date Reported:**

Client Sample ID:	GW-1
Sample Location:	1409-1417 12th St
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 11:00:00 AM

Lab Sample ID: 0804219-001 Date Prepared: 5/1/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/3/2008	0.1	10	1.00	7.25x	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/3/2008	0.2	10	2.00	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/3/2008	0	10	53.3-124	120	%REC	R16185
Note: Sample chromatogram does n quantitated as diesel.	ot resemble typical diesel	pattern.(possibly	fuels lighte	er then diesel).	Hydrocarbo	ns within the d	liesel range	
Benzene	SW8260B	5/2/2008	0.5	44	22.0	2400	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	44	22.0	378	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	44	22.0	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	44	22.0	769	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	44	66.0	3450	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	44	61.2-131	109	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	44	64.1-120	87.9	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	44	75.1-127	101	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/6/2008	50	44	2200	37000	µg/L	G16219
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/6/2008	0	44	58.4-133	94.8	%REC	G16219

Note: Although TPH as Gasoline constituents are present, results are elevated due to the presence of non-target compounds within range of C5-C12 quantified as Gasoline

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 4/30/2008 Date Reported:

Client Sample ID:	GW-2
Sample Location:	1409-1417 12th St
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 10:15:00 AM

Lab Sample ID: 0804219-002 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/3/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/3/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/3/2008	0	1	53.3-124	71.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1	1.50	ND	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1	61.2-131	89.9	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1	64.1-120	88.7	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1	75.1-127	98.7	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1	50	74x	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1	58.4-133	94.8	%REC	T16196

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline.

Report prepared for: Mr. Joseph Cotton Impact Environmental Services

Date Received: 4/30/2008 Date Reported:

Client Sample ID:	GW-3
Sample Location:	1409-1417 12th St
Sample Matrix:	WATER
Date/Time Sampled	4/30/2008 11:35:00 AM

Lab Sample ID: 0804219-003 Date Prepared: 5/2/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	5/3/2008	0.1	1	0.100	ND	mg/L	R16185
TPH (Motor Oil)	SW8015B	5/3/2008	0.2	1	0.200	ND	mg/L	R16185
Surr: Pentacosane	SW8015B	5/3/2008	0	1	53.3-124	67.0	%REC	R16185
Benzene	SW8260B	5/2/2008	0.5	1	0.500	46.5	µg/L	P16196
Ethylbenzene	SW8260B	5/2/2008	0.5	1	0.500	2.16	µg/L	P16196
Methyl tert-butyl ether (MTBE)	SW8260B	5/2/2008	0.5	1	0.500	ND	µg/L	P16196
Toluene	SW8260B	5/2/2008	0.5	1	0.500	1.36	µg/L	P16196
Xylenes, Total	SW8260B	5/2/2008	1.5	1	1.50	6.27	µg/L	P16196
Surr: Dibromofluoromethane	SW8260B	5/2/2008	0	1	61.2-131	119	%REC	P16196
Surr: 4-Bromofluorobenzene	SW8260B	5/2/2008	0	1	64.1-120	97.6	%REC	P16196
Surr: Toluene-d8	SW8260B	5/2/2008	0	1	75.1-127	85.4	%REC	P16196
TPH (Gasoline)	SW8260B(TPH)	5/2/2008	50	1	50	250	µg/L	T16196
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	5/2/2008	0	1	58.4-133	94.8	%REC	T16196

Note: Although TPH as Gasoline constituents are present, results are elevated due to the presence of non-target compounds within range of C5-C12 quantified as Gasoline

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
а	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory. Lab Certificate #

Torrent Laboratory, Inc.

Date: 07-May-08

CLIENT: Impact Environmental Services 0804219

Work Order:

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: G16219

Sample ID: MB_G16219	SampType: MBLK	TestCode: TPH_GAS_W Units:	μ g/L Prep Date: 5/5/2008	RunNo: 16219		
Client ID: ZZZZZ	Batch ID: G16219	TestNo: SW8260B(TP	Analysis Date: 5/5/2008	SeqNo: 232909		
Analyte	Result	PQL SPK value SPK Ref Va	ا، %REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	ND	50				
Surr: 4-Bromofllurobenzene	11.00	0 11.36) 96.8 58.4 133			
Sample ID: LCS_G16219	SampType: LCS	TestCode: TPH_GAS_W Units:	μg/L Prep Date: 5/5/2008	RunNo: 16219		
Client ID: ZZZZZ	Batch ID: G16219	TestNo: SW8260B(TP	Analysis Date: 5/5/2008	SeqNo: 232910		
Analyte	Result	PQL SPK value SPK Ref Va	ا، %REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	234.0	50 227 4	4 83.7 52.4 127			
Surr: 4-Bromofllurobenzene	12.00	0 11.36) 106 58.4 133			
Sample ID: LCSD_G16219	SampType: LCSD	TestCode: TPH_GAS_W Units:	μg/L Prep Date: 5/6/2008	RunNo: 16219		
Client ID: ZZZZZ	Batch ID: G16219	TestNo: SW8260B(TP	Analysis Date: 5/6/2008	SeqNo: 232911		
Analyte	Result	PQL SPK value SPK Ref Va	ال %REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	228.0	50 227 4	4 81.1 52.4 127 234	2.60 20		
Surr: 4-Bromofllurobenzene	11.00	0 11.36	D 96.8 58.4 133 O	0 0		

Value above quantitation range **Qualifiers:** Е

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Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 1 of 4

ANALYTICAL QC SUMMARY REPORT

BatchID: P16196

Sample ID: MB_P16196	SampType: MBLK	TestCo	de: 8260B_W_	_PE Units: µg/L		Prep Da	te: 5/1/200	8	RunNo: 16196			
Client ID: ZZZZZ	Batch ID: P16196	Test	No: SW8260B			Analysis Da	te: 5/1/200	8	SeqNo: 232	2729		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	ND	0.500										
Ethylbenzene	ND	0.500										
Methyl tert-butyl ether (MTBE)	ND	0.500										
Toluene	ND	0.500										
Xylenes, Total	ND	1.50										
Surr: Dibromofluoromethane	11.89	0	11.36	0	105	61.2	131					
Surr: 4-Bromofluorobenzene	11.17	0	11.36	0	98.3	64.1	120					
Surr: Toluene-d8	9.450	0	11.36	0	83.2	75.1	127					
Sample ID: LCS_P16196	SampType: LCS	TestCo	de: 8260B_W	_PE Units: µg/L		Prep Da	te: 5/1/200	8	RunNo: 161	196		
Client ID: ZZZZZ	Batch ID: P16196	Test	No: SW8260B			Analysis Da	te: 5/1/200	8	SeqNo: 232730			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	15.69	0.500	17.04	0	92.1	66.9	140					
Toluene	18.01	0.500	17.04	0	106	76.6	123					
Surr: Dibromofluoromethane	10.21	0	11.36	0	89.9	61.2	131					
Surr: 4-Bromofluorobenzene	10.19	0	11.36	0	89.7	64.1	120					
Surr: Toluene-d8	11.76	0	11.36	0	104	75.1	127					
Sample ID: LCSD_P16196	SampType: LCSD	TestCo	de: 8260B_W	_PE Units: µg/L		Prep Da	te: 5/1/200)8	RunNo: 161	196		
Client ID: ZZZZZ	Batch ID: P16196	Test	No: SW8260B			Analysis Da	te: 5/1/200	8	SeqNo: 232	2731		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	15.20	0.500	17.04	0	89.2	66.9	140	16.31	7.05	20		
Toluene	15.20	0.500	17.04	0	89.2	76.6	123	17.16	12.1	20		
Surr: Dibromofluoromethane	11.24	0	11.36	0	98.9	61.2	131	0	0	0		
Surr: 4-Bromofluorobenzene	11.69	0	11.36	0	103	64.1	120	0	0	0		
Surr: Toluene-d8	9.410	0	11.36	0	82.8	75.1	127	0	0	0		

Qualifiers:

Value above quantitation range Е

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 2 of 4 S

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: R16185

Sample ID: WD080501A-MB	SampType: MBLK	TestCode: TPHDO_W	/ Units: mg/L		Prep Da	te: 5/1/2008	3	RunNo: 16	185	
Client ID: ZZZZZ	Batch ID: R16185	TestNo: SW8015B			Analysis Da	te: 5/1/2008	3	SeqNo: 23	2322	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	ND	0.100								
TPH (Motor Oil)	ND	0.200								
Surr: Pentacosane	0.07200	0 0.1	0	72.0	53.3	124				
Sample ID: WD080502A-MB	SampType: MBLK	TestCode: TPHDO_W	/ Units: mg/L		Prep Da	te: 5/2/2008	3	RunNo: 16	185	
Client ID: ZZZZZ	Batch ID: R16185	TestNo: SW8015B			Analysis Da	te: 5/3/2008	3	SeqNo: 23	3008	
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	ND	0.100								
TPH (Motor Oil)	ND	0.200								
Surr: Pentacosane	0.07900	0 01	0	79.0	53.3	124				
	0.07000	6 0.1	•	10.0	00.0	.=.				
Sample ID: WD080501A-LCS	SampType: LCS	TestCode: TPHDO_W	/ Units: mg/L	10.0	Prep Da	te: 5/1/2008	3	RunNo: 16	185	
Sample ID: WD080501A-LCS Client ID: ZZZZZ	SampType: LCS Batch ID: R16185	TestCode: TPHDO_W TestNo: SW8015B	/ Units: mg/L	70.0	Prep Da Analysis Da	te: 5/1/2008	3	RunNo: 16 SeqNo: 23	185 2323	
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte	SampType: LCS Batch ID: R16185 Result	TestCode: TPHDO_M TestNo: SW8015B PQL SPK value	/ Units: mg/L	%REC	Prep Da Analysis Da LowLimit	te: 5/1/2008 te: 5/1/2008 HighLimit	3 3 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit	Qual
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel)	SampType: LCS Batch ID: R16185 Result 0.5590	TestCode: TPHDO_M TestNo: SW8015B PQL SPK value 0.100 1	/ Units: mg/L SPK Ref Val	%REC 55.9	Prep Da Analysis Da LowLimit 46.2	te: 5/1/2008 te: 5/1/2008 HighLimit 109	3 3 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit	Qual
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane	SampType: LCS Batch ID: R16185 Result 0.5590 0.09700	TestCode: TPHDO_M TestNo: SW8015B PQL SPK value 0.100 1 0 0.1	Units: mg/L SPK Ref Val 0 0	%REC 55.9 97.0	Prep Da Analysis Da LowLimit 46.2 53.3	te: 5/1/2008 te: 5/1/2008 HighLimit 109 124	3 3 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit	Qual
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD	SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD	TestCode: TPHDO_W TestNo: SW8015B PQL SPK value 0.100 1 0 0.1 TestCode: TPHDO_W	/ Units: mg/L SPK Ref Val 0 0 / Units: mg/L	%REC 55.9 97.0	Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da	te: 5/1/2008 te: 5/1/2008 HighLimit 109 124 te: 5/1/2008	3 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD RunNo: 16	185 2323 RPDLimit 185	Qual
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD Client ID: ZZZZZ	SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD Batch ID: R16185	TestCode: TPHDO_W TestNo: SW8015B PQL SPK value 0.100 1 0 0.1 TestCode: TPHDO_W TestNo: SW8015B	/ Units: mg/L SPK Ref Val 0 0 / Units: mg/L	%REC 55.9 97.0	Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da Analysis Da	te: 5/1/2008 te: 5/1/2008 HighLimit 109 124 te: 5/1/2008	3 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD RunNo: 16 SeqNo: 23	185 2323 RPDLimit 185 2324	Qual
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD Client ID: ZZZZZ Analyte	SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD Batch ID: R16185 Result	TestCode: TPHDO_W TestNo: SW8015B PQL SPK value 0.100 1 0 0.1 TestCode: TPHDO_W TestNo: SW8015B PQL SPK value	/ Units: mg/L SPK Ref Val 0 0 / Units: mg/L SPK Ref Val	%REC 55.9 97.0 %REC	Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da Analysis Da LowLimit	te: 5/1/2008 te: 5/1/2008 HighLimit 109 124 te: 5/1/2008 HighLimit	3 RPD Ref Val 3 3 RPD Ref Val	RunNo: 16 SeqNo: 23 %RPD RunNo: 16 SeqNo: 23 %RPD	185 2323 RPDLimit 185 2324 RPDLimit	Qual
Sample ID: WD080501A-LCS Client ID: ZZZZZ Analyte TPH (Diesel) Surr: Pentacosane Sample ID: WD080501A-LCSD Client ID: ZZZZZ Analyte TPH (Diesel)	SampType: LCS Batch ID: R16185 Result 0.5590 0.09700 SampType: LCSD Batch ID: R16185 Result 0.5750	C 0.11 TestCode: TPHDO_W TestNo: SW8015B PQL SPK value 0.100 1 0 0.1 TestCode: TPHDO_W TestCode: TPHDO_W TestNo: SW8015B PQL SPK value 0.100 1	/ Units: mg/L SPK Ref Val 0 0 / Units: mg/L SPK Ref Val 0	%REC 55.9 97.0 %REC 57.5	Prep Da Analysis Da LowLimit 46.2 53.3 Prep Da Analysis Da LowLimit 46.2	te: 5/1/2008 te: 5/1/2008 HighLimit 109 124 te: 5/1/2008 te: 5/1/2008 HighLimit 109	3 RPD Ref Val 3 3 RPD Ref Val 0.559	RunNo: 16 SeqNo: 23 %RPD RunNo: 16 SeqNo: 23 %RPD 2.82	185 2323 RPDLimit 185 2324 RPDLimit 20	Qual

Value above quantitation range ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded Н

Analyte detected below quantitation limits J S

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits Page 3 of 4

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: T16196

Sample ID: MB_T16196	SampType: MBLK	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 5/2/2008	RunNo: 16196		
Client ID: ZZZZZ	Batch ID: T16196	TestNo: SW8260B(TP	Analysis Date: 5/2/2008	SeqNo: 232768		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	ND	50				
Surr: 4-Bromofllurobenzene	9.000	0 11.36 0	79.2 58.4 133			
Sample ID: LCS_T16196	SampType: LCS	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 5/2/2008	RunNo: 16196		
Client ID: ZZZZZ	Batch ID: T16196	TestNo: SW8260B(TP	Analysis Date: 5/2/2008	SeqNo: 232769		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	197.0	50 227 29	74.0 52.4 127			
Surr: 4-Bromofllurobenzene	11.00	0 11.36 0	96.8 58.4 133			
Sample ID: LCSD_T16196	SampType: LCSD	TestCode: TPH_GAS_W Units: µg/L	Prep Date: 5/2/2008	RunNo: 16196		
Client ID: ZZZZZ	Batch ID: T16196	TestNo: SW8260B(TP	Analysis Date: 5/2/2008	SeqNo: 232770		
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual		
TPH (Gasoline)	192.0	50 227 29	71.8 52.4 127 197	2.57 20		
Surr: 4-Bromofllurobenzene	12.00	0 11.36 0	106 58.4 133 0	0 0		

Project:

S

Analyte detected below quantitation limits J Spike Recovery outside accepted recovery limits Page 4 of 4

Torrent Laboratory, Inc.

WORK ORDER Summary

Client ID: IMPACT ENV. SER.

01-May-08 Work Order 0804219

Project:

QC Level:

Comments: 5 day TAT! Received 3 waters.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0804219-001A	GW-1	4/30/2008 11:00:00 AM	4/30/2008	5/6/2008	Water	8260B_W_PETRO			✓		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804219-002A	GW-2	4/30/2008 10:15:00 AM		5/6/2008		8260B_W_PETRO			\checkmark		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR
0804219-003A	GW-3	4/30/2008 11:35:00 AM		5/6/2008		8260B_W_PETRO			\checkmark		SR
				5/6/2008		TPH_GAS_W_GC					SR
				5/6/2008		TPHDO_W					SR

				1680 ROG	ERS AVENUE			CON	DUCT	ANAL	SIS TO	DETE	ст	LAB	Torrent Lab		DHS #
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TE	Inpact																
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APPENDIX D

Well Development Data Sheets and Certified Well Survey Reports



Silicon Valley Land Surveying, Inc.

1093 North 5th Street • San Jose, CA 95112 • Tel: (408) 971-3800 • Fax: (408) 971-8501

May 5, 2008

Joseph A. Cotton P.G. Impact Environmental 39120 Argonaut Way, Suite 223 Fremont, CA 94538 T: 510-703-5420 F: 510-791-0271 E: Jac21462@aol.com

Subject: Transmittal Letter Survey Data Report prepared for 1409-17 12th Street, Oakland CA SVLS Project No. 08-0815

Dear Mr. Cotton,

Enclosed you will find our original signed and stamped survey data report prepared for the subject location. Electronic version has been emailed to you previously.

In addition, invoice for the services provided is enclosed herein. We always appreciate your prompt payment.

If we can be of further assistance, please don't hesitate to call on us.

Again, thank you for selecting Silicon Valley Land Surveying, Inc. as your land surveying consultant.

Very respectfully yours.

Timothy J. Redd, PLS 7527 Principal Land Surveyor/President

Enclosures, as listed Via USPS

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GeoTrackel____eport for Monitoring Wells Surveyed at 1409-17 12th Street, Oakland, CA. by Silicon Valley Land Surveying, Inc. for Impact Environmental, Inc.

FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC
GW-1	4/30/2008	20.23	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.50	NGS HT0661 - NAVD 88
GW-2	4/30/2008	20.57	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.16	NGS HT0661 - NAVD 88
GW-3	4/30/2008	20.57	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.33	NGS HT0661 - NAVD 88
MW-1	4/30/2008	21.49	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.30	NGS HT0661 - NAVD 88
MW-2	4/30/2008	20.61	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.39	NGS HT0661 - NAVD 88
MW-3	4/30/2008	21.09	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.52	NGS HT0661 - NAVD 88
MW-4	4/30/2008	20.35	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.40	NGS HT0661 - NAVD 88
MW-5	4/30/2008	20.05	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.23	NGS HT0661 - NAVD 88
MW-6	4/30/2008	19.67	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.38	NGS HT0661 - NAVD 88
MW-7	4/30/2008	19.88	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.30	NGS HT0661 - NAVD 88
MW-8	4/30/2008	20.71	DIG	88	2	Silicon Valley Land Surveying Inc.	-0.39	NGS HT0661 - NAVD 88



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GEO_Z_report_08-0150_050208.xls

GeoTracker_XY Report for Monitoring Wells Surveyed at 1409-17 12th Street, Oakland, CA. by Silicon Valley Land Surveying, Inc. for Impact Environmental, Inc.

EIELD DT NAME	VV SUDVEY DATE	LATITUDE	LONCTITUDE	VV METHOD	VV DATUM	VY ACC VAL	YY SUBVEY OPC	CPS FOUR TYPE
FIELD_FI_NAME	AT_SURVET_DATE	LATTODE	LONGTHODE	AT_WETHOD	AT_DATON	AT_ACC_VAL	AT_SORVET_ORG	GFS_EQUIF_TIFE
GW-1	4/30/2008	37.8090591	-122.2926359	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
GW-2	4/30/2008	37.8090554	-122.2926970	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
GW-3	4/30/2008	37.8090566	-122.2925325	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-1	4/30/2008	37.8088602	-122.2926636	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-2	4/30/2008	37.8090210	-122.2927461	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-3	4/30/2008	37.8089672	-122.2926514	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-4	4/30/2008	37.8089714	-122.2924800	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-5	4/30/2008	37.8091233	122.2927183	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-6	4/30/2008	37.8091279	-122.2925899	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-7	4/30/2008	37.8090964	-122.2924472	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530
MW-8	4/30/2008	37.8090245	-122.2926416	CGPS	NAD83	2	Silicon Valley Land Surveying Inc.	L530



GEO_XY_report_08-0150_050208.xls

	Project Name:	THOMPSON PRO	OPERTY			Date:	April 4, 2 008	
	Project Number:	THMP 2008_DEV	1			Sampler:	JOSEPH COTTON ET A	L.
	Well Number:	MW-1			_	Weather:		
	Well Location:	1409-14	417 12th St.,	Oakland, (CA			
	Well Construction				Sampling Eq	uipment &	Cleaning	
	Date Completed:	March	2008		Sampler Typ	be:	Suction Pump	
	Total Depth of We	13.92'		7		leaning:	Alconox and D.I. Water	
	Diameter:	2"			Pump/Bailer	Pump/Bailer Type: Suction Pump		
	Well Elevation and	d Reference:			Method of C	leaning:	Alconox and D.I. Water	
							HANNA	
					Conductivity	Meter:	HANNA	
	Ground Water Lev	els:			Comments:		Surge blacke	Purge
	0	a 1			2'' Well = 0.	163 gallons	per foot 0	
	Initial: <u>9</u> .	80			4" Well = $0.$	653 gallons	per foot	
	Final: <u>13</u>	,63						
	Reference Point:	Black Mark on To	p of Casing					
	Well Volume of W	/ater: ~ 0.7(2 90	llans				
			Pl	JRGE ME.	ASUREMEN	TS		
		_			Spee Co	nductance		
		Discharge (gal)		Temp	(mmh	os/cm)	Color/	
	Time Per 7	Fime Cumulative	рH	(%)	Field	Dissolved	Turbidity	Odor
	Per	iod	P	Č		Oxygen	(NTU)	0.00
4/4	12:10 sta	art Ø	6.93	18,3	2935		Cloudy Bran	No
•••	12:30	4.5		Eu	VA/FAST	DRY	3	NO
4/5	8:30	7.5	7,23	163	2478		Clear/SUMarcun	NO
1/0	0,00			10.0	-110		Oler Jang	140
								1.11
		200	11		0	V (at)	+ 1 5	115-11
	Total Discharge:		allons		Comments:	VVEIT	went dry Ce	4. sgallor
	Casing Volumes F	temoved: +10)	<u>_1</u>		0		
	Method of Dispos	al: sered	in-	Site	pono	ling	alisposal	
	[WELL	DEVELOPMENTLOC]
			TATTAT	TAT			DEVELOPMENT LUG	
		I ENVIRU	NIVIEINI	AL	- Dura'	1409 - 14	17 T2TH ST., OAKLAND	Wall
					Proje	CUNO.		Mun - 1

spread\1409 WELL EVELOPMENT FORM

Project Name:	roject Name: THOMPSON PROPERTY			April4, 2008
Project Number:	THMP 2008_DEV		Sampler:	JOSEPH COTTON ET AL.
Well Number:	MUJ-2		Weather:	
Well Location:	1409-14	7 12th St., Oakland	, CA	
Well Construction			Sampling Equipment &	Cleaning
Date Completed:	March	2008	Sampler Type:	Suction Pump
Total Depth of Well	13.91		Method of Cleaning:	Alconox and D.I. Water
Diameter:	2"		Pump/Bailer Type:	Suction Pump
Well Elevation and	Reference:		Method of Cleaning:	Alconox and D.I. Water
			pH Meter:	HANNA
			Conductivity Meter:	HANNA
Ground Water Level	l <u>s:</u>		Comments:	Surge block & Durge
			2" Well = 0.163 gallons	s per foot
Initial: 9,	00		4" Well = 0.653 gallons	s per foot
Final: 12.	21			
Reference Point:	Black Mark on Top	of Casing		
Well Volume of Wa	ter: 🗸 🔊, 🗥	gallons		
		0		

PURGE MEASUREMENTS

					Spec. Conductance			
	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Color/	
Time	Per Time	Cumulative	pН	(° y)	Field	Dissolved	Turbidity	Odor
	Period			C		Oxygen	(NTU)	1.2
11:30	start	Ø	6:88	19.2	12.52		Muddy Bran	No
1'.30		20	6.73	20.8	1011		Clear/Sl, Muridy	NO
							, ,	
Total Disc Casing Vo	harge: Iumes Remove	20 d: <u>+27</u>	gallon	S	Comments:			
Method of	Disposal: <u> </u>	rummed	d on	-site	penc	ling	clisposal	
						WELL I	DEVELOPMENT LOG	
IM	PACT E	NVIRO	NMENT	'AL		1409 - 141	7 12TH ST., OAKLAND	
						ct No.	Date	Well
							APRIL 2008	MW-2

spread/1409 WELL EVELOPMENT FORM

Project Name:	THOMPSON PRO	OPERTY	Date:	April 4, 2008
Project Number:	THMP 2008_DEV	1	Sampler:	JOSEPH COTTON ET AL.
Well Number:	MW-3		Weather:	
Well Location:	1409-14	417 12th St. , Oaklar	nd, CA	
Well Construction			Sampling Equipment &	Cleaning
Date Completed:	March	2008	Sampler Type:	Suction Pump
Total Depth of Wel	1: 13.59		Method of Cleaning:	Alconox and D.I. Water
Diameter:	2"		Pump/Bailer Type:	Suction Pump
Well Elevation and	Reference:		Method of Cleaning:	Alconox and D.I. Water
			pH Meter:	HANNA
			Conductivity Meter:	HANNA
Ground Water Leve	els:		Comments:	Surge block & Purge
			2" Well = 0.163 gallons	s per foot
Initial: 10	0.20		4" Well = 0.653 gallons	s per foot
Final: 13	s.14			
Reference Point:	Black Mark on To	p of Casing		
Well Volume of W	ater: 0,70 a.	allons		

PURGE MEASUREMENTS

					Spec. Conductance					
	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Color/			
Time	Per Time	Cumulative	pH	(° Y)	Field	Dissolved	Turbidity	Odor		
	Period			C		Oxygen	(NTU)			
1:05	start	Ø	7.26	19.0	1775		Watery Mud	No		
3:10		Г	7.20	18.81	1638		Muddy Bran	NO		
)			
								- 1		
Total Discharge: 7 gallons Comments: Casing Volumes Removed: 10 Method of Disposal: Drummed on-site pending disposal										
						WELL D	DEVELOPMENT LOG			
IM	PACT E	NVIRO	NMENT	AL		1409 - 1417 12TH ST., OAKLAND				
					Project No. Date W		Well			
							APRIL 2008	MW-3		

spread\1409 WELL EVELOPMENT FORM

Project Name:	THOMPSON PROPE	RTY	Date:	April 4, 2008
Project Number:	THMP 2008_DEV		Sampler:	JOSEPH COTTON ET AL.
Well Number:	MW-4		Weather:	
Well Location:	1409-1417	2th St., Oakland, (CA	
Well Construction			Sampling Equipment &	Cleaning
Date Completed:	March 2	008	Sampler Type:	Suction Pump
Total Depth of Well:	13,90		Method of Cleaning:	Alconox and D.J. Water
Diameter:	2"		Pump/Bailer Type:	Suction Pump
Well Elevation and F	Reference:		Method of Cleaning:	Alconox and D.I. Water
			pH Meter:	HANNA
			Conductivity Meter:	HANNA
Ground Water Level	<u>s:</u>		Comments:	Surge block & porge
			2" Well = 0.163 gallon	s per foot
Initial: 9	1.43		4" Well = 0.653 gallon	s per foot
Final: 13	.3			
Reference Point:	Black Mark on Top of	Casing		
Well Volume of War	ter: 0,86	gallons		

PURGE MEASUREMENTS

					Spec. Conductance					
	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Col	or/		
Time	Per Time	Cumulative	pН	(° *)	Field	Dissolved	Turb	idity	Odor	
	Period					Oxygen	(NT	<u>U)</u>		
11:54	start	Ø	7.13	19.5	600		moddy	braun	No	
1:44		5	7.05	20.6	592		iN		No	
2:17		01	7.09	19.6	637		Opaque	brown	NO	
Total Disc Casing Vo	harge: lumes Remove	10 Ge d: +11	ullons		Comments:					
Method of	Disposal:)r umme	d m	site F	Dendin	S dist	ousal			
WELL DEVELOPMENT LOG										
IM	IMPACT ENVIRONMENTAL					1409 - 141	7 12TH ST.,	OAKLAND		
					Project No. Date We			Well		
							APRIL	2008	Mw-4	

Project Name: THOMPSON PROPERTY			Date:	April 1, 2008	
Project Number:	THMP 2008_DEV		Sampler:	JOSEPH COTTON ET AL.	
Well Number:	M10-5		Weather:		
Well Location:	1409-141	7 12th St. , Oakland,	CA		
Well Construction			Sampling Equipment &	Cleaning	
Date Completed:	ite Completed: March 2008		Sampler Type:	Suction Pump	
Total Depth of Well	otal Depth of Well: 13.97'		Method of Cleaning:	Alconox and D.1. Water	
Diameter:	2"		Pump/Bailer Type:	Suction Pump	
Well Elevation and I	Reference:	-	Method of Cleaning:	Alconox and D.I. Water	
	100		pH Meter:	HANNA	
			Conductivity Meter:	HANNA	
Ground Water Level	ls:		Comments:	Block Surge & Durge	
			2" Well = 0.163 gallons	s per foot	
Initial: 🛛 😪 🕻	50		4" Well = 0.653 gallons	s per foot	
Final: 12.	32				
Reference Point:	Black Mark on Top	of Casing			
Well Volume of Wa	ter: ~ . 90	gala	5		

PURGE MEASUREMENTS

					Spec. Conductance			
	Dischar	ge (gal.)		Temp	(mmho	os/cm)	Color/	
Time	Per Time	Cumulative	pН	(° V)	Field	Dissolved	Turbidity	Odor
	Period			C		Oxygen	(NTU)	
11:51	start	Ø	6.97	19.8	2168		modely brav	n No
1:30		5	676	21.1	1578		iU	No
1:45		10	6.55	22.0	1365		Opaque Bra	n NO
2.05		17	6,61	19.3	1322		Ustary Bran	m HD
							5	
Total Disc	harge:	17 0	zallon	3	Comments:			
Method of	Disnosal: D		0 0	asita	0000	0.	disposed	
		r una na	LCX VI		T	g	orspoon	
						WELLD	DEVELOPMENT LO	G
IM IM	PACT E	NVIRO	NMENT	AL		1409 - 141	7 12TH ST., OAKLAN	ID
					Projec	ct No.	Date	Well
							APRIL 2008	MW-D

spread/1409 WELL EVELOPMENT FORM

Project Name: Project Number: Well Number:	THOMPSON PROPERTY THMP 2008_DEV		Date: Sampler:	April 5 2008 JOSEPH COTTON ET AL.
Well Location:	1409-1417	12th St., Oakland,	CA	
Well Construction	Appril		Sampling Equipment &	Cleaning
Date Completed:	March	2009	Sampler Type:	Suction Pump
Total Depth of Well	14.44		Method of Cleaning:	Alconox and D.I. Water
Diameter:	2"		Pump/Bailer Type:	Suction Pump
Well Elevation and I	Reference:		Method of Cleaning:	Alconox and D.I. Water
			pH Meter:	HANNA
			Conductivity Meter:	HANNA
Ground Water Level	s:		Comments:	Sumae Black & Dunge
	`		2" Well = 0.163 gallons	per foot
Initial: 🛛 😪	.60		4" Well = 0.653 gallons	per foot
Final: 12	.72'			
Reference Point:	Black Mark on Top of	f Casing		
Well Volume of Wa	ter: ~ 1,10	aall		
		0		

PURGE MEASUREMENTS

					Spec. Conductance			
	Dischar	ge (gal.)		Temp	(mmho	os/cm)	Color/	
Time	Per Time	Cumulative	pН	(°¥)	Field	Dissolved	Turbidity	Odor
	Period			C		Oxygen	(NTU)	a second
2:10	start	Ø	7.55	20.2	.2128	_	Clear	NO
21.30		5	7.19	19.3	2052		Middy Bram	NO
2:56		10	7.17	19.7	2019		Western Brun	ND
							0	
L		. 0	()					
Total Disc	harge:	~10	Salpy		Comments:			
Casing Vo	lumes Remove	ed: ~ 9	- L					0
Method of	Disposal: <u>)</u>	rum	ed ?	ktt	en-s	de p	anding ous	posel
						WELL D	DEVELOPMENT LOG	
IM	PACT E	NVIRO	NMENT	AL		1409 - 141	7 12TH ST., OAKLAND	
					Projec	ct No.	Date	Well
							APRIL 2008	MW-D

spread/1409 WELL EVELOPMENT FORM

			** L		JOI MENT I	200		
Project Nar Project Nur	me: <u>TH</u> mber: <u>TH</u>	OMPSON PRO	OPERTY			Date: Sampler:	April 2008 JOSEPH COTTON ET	AL.
Well Locat	ion:	1409-14	417 12th St.,	Oakland, (ČA	weather:		
Well Const	truction				Sampling Ec	uipment &	Cleaning	
Date Comp	oleted: 🔥	larch	2008		Sampler Typ	e:	Suction Pump	
Total Dept	h of Well:	13.95		- Y	Method of C	leaning:	Alconox and D.I. Wate	r
Diameter:	Diameter: 24				Pump/Bailer	Туре:	Suction Pump	
Well Elevation and Reference:				Method of C	leaning:	Alconox and D.I. Wate	<u>r</u>	
				pH Meter: HANNA				
Ground Wa	ater Levels:				Conductivity Comments: 2" Well = 0	/ Meter:	HANNA Surge Bloc	k 2 Purg
Initial	8.27	1			4'' Well = 0	653 gallons	per foot	
Final:	13.21				<u> </u>	oso ganono		
Reference	Point: Bla	ck Mark on To	p of Casing					
Well Volu	me of Water:	~12.95	p or outing					
			PU	JRGE MEA	ASUREMEN	TS		
					Spec. Co	nductance		
	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Color/	
Time	Per Time Period	Cumulative	pН	(°P)	Field	Dissolved Oxygen	Turbidity (NTU)	Odor
11:30	start	Ø	729	16 9	1275		Burn	hb

<i>L</i>	4	
	1.	

415

4/4

	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Color/	
Time	Per Time	Cumulative	pН	(° P)	Field	Dissolved	Turbidity	Odor
	Period			ć		Oxygen	(NTU)	
11:30	start	Ø	7.39	19.9	1375		Bram	No
12:23		3	6.91	20.5	920		Opaque Bran	No
1.24		10	498	20.6	792		· V1	NO
2:15		15	6.97	21.2	641		Cler	No
10'30 17 7.02 19.4 651 Clear NO								
Total Discharge: 11 Gallers Comments:								
Casing Volumes Removed: +20								
Method of	Method of Disposal: Drum miste pending disposal							

IMPACT ENVIRONMENTAL

WELLI	DEVELOPMENT LOG	
1409 - 141	7 12TH ST., OAKLAND	
Project No.	Date	Well
	APRIL 2008	MW-

7

spread\1409 WELL EVELOPMENT FORM

Project Name: Project Number: Well Number: Well Location:	THOMPSON PROPERTY THMP 2008_DEV MW-8 1409-1417 12th St_Oakland	Date: Sampler: Weather: CA	April 1, 2008 JOSEPH COTTON ET AL.
Well Construction		Sampling Equipment &	Cleaning
Date Completed:	March 2008	Sampler Type:	Suction Pump
Total Depth of Well	27.65'	Method of Cleaning:	Alconox and D.I. Water
Diameter:	2" w conductorsa	Pump/Bailer Type:	Suction Pump
Well Elevation and I	Reference:	Method of Cleaning:	Alconox and D.I. Water
		pH Meter:	HANNA
Ground Water Level	l <u>s:</u>	Conductivity Meter: Comments: 2" Well = 0.163 gallons	HANNA Surge block & purge per foot
Initial:	11.29	4" Well = 0.653 gallons	per foot
Final:	15.34'		
Reference Point: Well Volume of Wa	Black Mark on Top of Casing ter: - 2,90 Sallars		
	0		

PURGE MEASUREMENTS

					Spec. Cor	nductance		
	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Color/	
Time	Per Time	Cumulative	pН	(°Y)	Field	Dissolved	Turbidity	Odor
	Period			L		Oxygen	(NTU)	
11:02	start	Ø	8.04	17.2	560		Clear	Yes
11:09		9	7.22	19.7	766		Mudde Bran	Yas
11'16		lb	7.22	20.7	700		Cu	no
11:20		21	7.02	20,8	654		n .	no
11:30		28	7.07	20.7	660		Opique Bran	Yes
12:06		34	7.02	21.6	651		Orangie bran	-Yes
12:10		43	6.91	21.1	640		Cler	Ves
12:17		52	6.88	20.9	639		Clear	Yes
Total Discharge: 52 Comments:								
Casing Vo	lumes Remove	Casing Volumes Removed:						

i otal Disenaigei	9		Continuentos		
Casing Volumes Removed	-17				
Method of Disposal: 🔡	Drunned	a-sit	e pending	disposed	
			1 3		
			WELLI	DEVELOPMENT LOG	
IMPACT EN	NVIRONME	NTAL	1409 - 141	7 12TH ST., OAKLAND)
			Project No.	Date	Well
				APRIL 2008	Mw-8

spread/1409 WELL EVELOPMENTFORM

Project Name: Project Number: Well Number:	THOMPSON PROPERTY THMP 2008_DEV	_ Date: _ Sampler: 	April 🕼 2008 JOSEPH COTTON ET AL.
Well Location:	1409-1417 12th St Oakland	_ weather.	
Well Construction		Sampling Equipment & (Cleaning
Date Completed:	April 2008	_Sampler Type:	Suction Pump
Total Depth of Wells	17.05'	Method of Cleaning:	Alconox and D.I. Water
Diameter:	4"	Pump/Bailer Type:	Suction Pump
Well Elevation and I	Reference:	Method of Cleaning:	Alconox and D.I. Water
		pH Meter:	HANNA
		Conductivity Meter:	HANNA
Ground Water Level	<u>s:</u>	Comments:	Surce block & burge
		2" Well = 0.163 gallons	per foot
Initial:	1.34	4" Well = 0.653 gallons	per foot
Final:	5.62		
Reference Point:	Black Mark on Top of Casing		
Well Volume of Wa	ter: ~ 5.25 gallons		

PURGE MEASUREMENTS

Spec. Conductance									
	Dischar	ge (gal.)		Temp	(mmho	os/cm)	Color/		
Time	Per Time	Cumulative	pН	(°F)	Field	Dissolved	Turbidity	Odor	
	Period			C		Oxygen	(NTU)		
12:38	start	Ø	7.06	23.9	1052		Opagre Bran	. Yes	
12:48		10	7.00	20,2	2086	_	mildy Bran	Yes	
1:45		18	6.94	21.6	1804		Mide Bron	Yes	
2:11		24	6.83	21.2	2216		Sique Bran	Yes	
2:31		30	6.87	21.0	1952		- Le	Yes	
Total Discharge: <u>509allas</u> Comments:									
Casing Vo	Casing Volumes Removed:								
Method of Disposal: and an-sile perang alspoord									
WELL DEVELOPMENT LOG									
IMPACT ENVIRONMENTAL 1409 - 1417 12TH ST., OAKLAND									
					Proje	ct No.	Date	Well	
	APRIL 2008 (100-1								

spread/1409 WELL EVELOPMENT FORM

Project Name:	THOMPSON PROP	ERTY	Date:	April 6 2008
Project Number:	THMP 2008_DEV		Sampler:	JOSEPH COTTON ET AL.
Well Number:	Gw-2		Weather:	
Well Location:	1409-1417	12th St. , Oakland,	CA	
Well Construction			Sampling Equipment &	Cleaning
Date Completed:	APRIL	2008	_Sampler Type:	Suction Pump
Total Depth of Well	# 17.0	0'	Method of Cleaning:	Alconox and D.I. Water
Diameter:	4"		Pump/Bailer Type:	Suction Pump
Well Elevation and I	Reference:		Method of Cleaning:	Alconox and D.I. Water
			pH Meter:	HANNA
			Conductivity Meter:	HANNA
Ground Water Level	s:		Comments:	Suge black & purge
	1		2" Well = 0.163 gallons	per foot
Initial: 9.11	1		4" Well = 0.653 gallons	per foot
Final: 14.	20'			
Reference Point:	Black Mark on Top of	of Casing		
Well Volume of Wa	ter: ~ 5, 2L	gallas		
		5		

PURGE MEASUREMENTS

					Spec. Conductance			
	Dischar	ge (gal.)		Temp	(mmh	os/cm)	Color/	
Time	Per Time	Cumulative	pН	(°F)	Field	Dissolved	Turbidity	Odor
	Period			Ċ		Oxygen	(NTU)	
11:00	start	Ø	7.41	17.5	2542		Brach	No
11:10		9	7.13	18,7	2410		Bran	No
11:30		16	6.98	18.7	2194		Opaque Bran	No
11:58		21	6.53	19.1	1922		-Clear	NO
Total Discharge: 25 gallons Comments:								
Wellow of Disposal. Tranned an-site parang disposed								
WELL DEVELOPMENT LOG								
IMPACT ENVIRONMENTAL						1409 - 141	7 12TH ST., OAKLAND	
					Proje	ct No.	Date	Well
							APRIL 2008	GW-2

spread/1409 WELL EVELOPMENT FORM

Project Name: Project Number: Well Number: Well Location:	THOMPSON PROPERTY THMP 2008_DEV Gus-3 1409- 1417 12th St. , Oakland,	Date: Sampler: Weather: CA	April 5 2008 JOSEPH COTTON ET AL.
Well Construction		Sampling Equipment &	Cleaning
Date Completed:	APRIL 2008	Sampler Type:	Suction Pump
Total Depth of Well:	17.981	Method of Cleaning:	Alconox and D.I. Water
Diameter:	tu	Pump/Bailer Type:	Suction Pump
Well Elevation and F	Reference:	Method of Cleaning:	Alconox and D.I. Water
		pH Meter:	HANNA
		Conductivity Meter:	HANNA
Ground Water Level	<u>s:</u>	Comments:	Surge block & purge
		2" Well = 0.163 gallons	per foot
Initial: 9 ,	22'	4" Well = 0.653 gallons	per foot
Final: 15.	66'		
Reference Point:	Black Mark on Top of Casing		
Well Volume of Wat	ter: ~ 5.25 gallers		

PURGE MEASUREMENTS

					Spec. Conductance						
	Discharge (gal.)			Temp (mmhos/cm)		Color/					
Time	Per Time	Cumulative	pН	(°)	Field	Dissolved	Turbidity	Odor			
	Period			e		Oxygen	(NTU)				
11:02	start	X	6.83	25.1	1320		Clear	No			
11,17		10	7.32	20.6	1813		muddy bran	No			
12:15		15	7.27	21,8	1361		clear	NO			
1:00		28	7.19	20.2	1253		clear	NO			
1:16		36	7.12	19,7	1241		clear	No			
Total Discharge: 36 gallens Comments:											
Method of Disposal: Drund grate pending disposed											
					WELL DEVELOPMENT LOG						
IM IM	PACT E	NVIRO	NMENT	AL	1409 - 1417 12TH ST., OAKLAND						
					Project No.		Date	Well			
							APRIL 2008	Gwis			

1

spread\1409 WELL EVELOPMENT FORM

APPENDIX E

Groundwater Sampling and Well Gauging Data Sheets

WELL GAUGING DATA

Project # 080430-BD1 Date 04-30-08 Client Impact Env. Services

Site 1409-1417 12th St, Oakland, CA

		Well		Depth to	Thickness	Volume of		······································	Survey Point:	
		Size	Sheen /	Immiscible	Immiscible	Removed	Depth to water	Depth to well	TOB or	
Well ID	Time	(in.)	Odor	Liquid (ft.)	Liquid (ft.)	(ml)	(ft.)	bottom (ft.)	700	Notes
MW-1	0911	2					10.52	13.92		
Mu-2	0915	2					9.64	13.91		
mw-3	0913	2					10.20	13.59		
Mw-4	0908	2					9.43	13.90		
mw-5	0918	2					9.10	13.87		
MW-6	0902	2					8.60	14.44		
MW-7	0905	2					8.96	13.81		
Mw-8	0900	2					<i>9.</i> 82	27.55		
Gu-1	0920	4					9.34	17.05		
GW-2	0916	4	-				9.70	17.00	Non-Stationary and a second	
GW-3	09:22	4					9.60	17.98	Ų	

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Project #:080430-BD1	Client: Impact Environmental Services			
Sampler: MT, BD	Date: 04-30-08			
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8			
Total Well Depth (TD): 13.92	Depth to Water (DTW): //) - \$7_			
Depth to Free Product:	Thickness of Free Product (feet)			
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH			
DTW with 80% Recharge [(Height of Wat	ter Column x 0.20) + DTW]: 11.20			
Purge Method: Bailer Disposable Bailer Positive Air Displacement Ext Electric Submersible Other	Waterra Sampling Method: Bailer Peristaltic XDisposable Bailer traction Pump Extraction Port Dedicated Tubing Other:			
54 (Gals) X 3 - 1.67	Well Diameter Multiplier 1" 0.04 4" 0.65 2" 0.16 6" 1.47			
I Case Volume Specified Volumes Calculated	Cals. $3^{\prime\prime}$ 0.37 0 ther 1.47 Volume $3^{\prime\prime}$ 0.37 0 ther $radius^2 * 0.163$			
Temp Time Temp (°F or © Cond. pH 1318 19.8 7.13 1978	Turbidity (NTUs) Gals. Removed Observations AQ, Q, 7100, 54			
1325 100 715 1976	80.1 000			
1023 18.0 7.13 1968	71000 1.62			
	DTW-1250			
Did well dewater? Yes No	Gallons actually evacuated: 1.67			
Sampling Date: CH. 30. Co Sampling Tin	me: 1340 Depth to Water: 11.17 (harfed)			
Sample I.D.: MW-1	Laboratory: Kiff CalScience Other Tarologiat			
Analyzed for: TPH-G BTEX MTBE (TPH-D)	Oxygenates (5) Other: Mathe (1)			
EB I.D. (if applicable):	Duplicate I.D. (if applicable):			
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5) Other:			
D.O. (if req'd): Pre-purge:	^{mg} /L Post-purge: ^{mg} /			
).R.P. (if req'd): Pre-purge:	mV Post-purge: mV			

V LL MONITORING DATA SHF f

Project #:C	80430-	BOI	-	Client: Impact Environmental Services				
Sampler: j	MT, BD)		Date:	Date: 04-30-08			
Well I.D.:	mW-	- 2		Well 1	Diameter	r: Ø 3	4 6 8	
Total Well	Depth (TI	D): /3	3.91	Depth	to Wate	er (DTW):	9.64	
Depth to F	ree Produc	t:		Thick	ness of F	Free Product ((feet):	
Referenced	l to:	PVC	Grade	D.O. 1	Meter (if	req'd):	YSI HACH	
DTW with	80% Rech	arge [(H	leight of Water	Colum	n x 0.20) + DTW]:	10.49	
Purge Method:	Bailer XDisposable E Positive Air Electric Subr	Bailer Displaceme mersible	nt Extrac Other	Waterra Peristaltic ction Pump	Well Diamete	Sampling Meth Oth er <u>Multiplier W</u> 0.04 4	thod: Bailer Disposable Bailer Extraction Port Dedicated Tubing ther: <u>Well Diameter Multiplier</u> 4" 0.65	
<u> </u>	Gals.) X Speci	<u> </u>	$\underline{} = \frac{2.7}{\text{Calculated Vc}}$	_ Gals. olume	2" 3"	0.16 6 0.37 C	6" 1.47 Other radius ² * 0.163	
Time /325	Temp (°F or C) 18.0	рН 7-64 7-50	Cond. (mS or uS) 702 - 4	Tur (N'	bidity TUs)	Gals. Remove	ved Observations	
1331	17.8	7.06	688.9	> 10	200	2.7		
Did well de	water?	Yes	10	Gallon	s actuall	y evacuated:	2.7	
Sampling D	ate:04.3	2.08	Sampling Time	: 134	15	Depth to Wa	ater: 10.40	
Sample I.D.	: MW	- 2		Labora	tory:	Kiff CalScier	ence Other Jawent	
Analyzed fo	or: TPH-G	BTEX (MTBE (TPH-D)	Oxygena	ates (5)	Other: Motor	- 01	
EB I.D. (if a	EB I.D. (if applicable): ^(a) ^{Time} Duplicate I.D. (if applicable):							
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:		
D.O. (if req'	d): Pr	e-purge:		^{mg} / _L	Po	ost-purge:	^{mg} /L	
O.R.P. (if re	q'd): Pr	e-purge:		mV	Po	ost-purge:	mV	

V LL MONITORING DATA SHF f

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Project #:080430 - BD1					Client: Impact Environmental Services			
Sampler: MT, BD					Date: 04-30-08			
Well I.D.: MW-3					Diameter	r: (2) 3	4	6 8
Total Well	Depth (TI): 3	.59	Depth	to Wate	er (DTW):	10.2	<u></u>
Depth to Fr	ee Produc	t:		Thick	ness of F	Free Produ	ct (feet	:):
Referenced	to:	PVC	Grade	D.O. 1	Meter (if	req'd):	 	YSI HACH
DTW with	80% Rech	arge [(H	leight of Water	Colum	n x 0.20) + DTW]	: 10,99	3
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic * Disposable Bailer Peristaltic * Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Dedicated Tubing Electric Submersible Other Other Other: 0 0 0 4" 0.65 Specified Volumes Calculated Volume Gals. Calculated Volume Other 1.47							Bailer Disposable Bailer Extraction Port Dedicated Tubing <u>uneter</u> 0.65 1.47 radius ² * 0.163	
Time	Temp (°F or O	рН 7.26	Cond. (mS or (S)	Tur (N' 7(O	bidity TUs) 30	Gals. Ren	noved	Observations
1029	16.7	7.24	1057	7/60	 ව	1.08		
1633	16.7	7.20	1040	7100	0	1.70		
					Ptu	s= 12.10		
Did well dev	water?	Yes	XO)	Gallon	s actuall	y evacuate	ed: 1.	.70
Sampling D	ate: OLJ.30	2-CS	Sampling Time	e: 1058	3	Depth to	Water:	10.97 (united)
Sample I.D.	: Marz	>		Labora	tory:	Kiff CalS	Science	Other Tarvent
Analyzed fo	r: TPH-G)	BTEX	MTBE (PH-D	Oxygena	ates (5)	Other: Mos	for Oil	
EB I.D. (if a	pplicable)		@ Time	Duplica	ate I.D. ((if applical	ble):	
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:		
D.O. (if req'	d): Pro	e-purge:		^{mg} /L	Po	ost-purge:		^{mg} /L
O.R.P. (if re	q'd): Pro	e-purge:		mV	Po	ost-purge:		mV

Project #:C	R0420-	RDI		Client: Impact Environmental Somices					
Sampler: 1	NT RE			Date: A	Data: Gill 20 00				Vices
Well I D ·	$M_{L} = U$, ,			<u>, </u>				
		meter	r: (2) 3	4	68_				
Total Well	Depth (TI): [3.	40	Depth to	Wate	r (DTW):	9.2	3	
Depth to Fr	ee Produc	t:		Thicknes	s of F	Free Produ	ict (fee	et):	
Referenced	to:	PVC	Grade	D.O. Met	ter (if	`req'd):		YSI	НАСН
DTW with	80% Rech	arge [(H	leight of Water	: Column x	: 0.20) + DTW]	: 10.	37	
Purge Method:	Bailer Disposable B Positive Air I Electric Subr	Bailer Displaceme nersible	ent Extrac Other	Waterra Peristaltic ction Pump	II Diamete	Sampling	Method: Other:	Ba XDisposa Extrac Dedicate	ailer ble Bailer tion Port ed Tubing
بجا (0 I Case Volume	Gals.) X Speci	<u>3</u> fied Volum	$\frac{1}{10000000000000000000000000000000000$	_ Gals.	1" 2" 3"	0.04 0.16 0.37	4" 6" Other	lameter Multip 0.65 1.47 radius	<u>lier</u> 2 * 0.163
Time 1117-	Temp (°F or C) 21. 5	рН В7.18	Cond. (mS or as) 529.6	Turbidi (NTUs 7/000	ity s)	Gals. Ren .71	noved	Obser	vations
11 20 	14.6	7.12	686.5	71000		1.42			
121124	19.3	7.13	525.0	71000		2.13			
				E	Hω	11-40			
Did well dev	water?	Yes	N)	Gallons ad	ctuall	y evacuate	ed: Z	2.13	
Sampling Da	ate:04.30	2-08	Sampling Time	: 1/38		Depth to	Water:	: 10.32	(united)
Sample I.D.:	MW-L	{		Laborator	y:	Kiff CalS	Science	Other 10	went
Analyzed for	r: TPH-G	BTEX (MTBE (TPH-D	Oxygenates	(5)	Other: Mos	for ()i	1	
EB I.D. (if a	pplicable)	•	@ Time	Duplicate	I.D. (if applical	ble):		
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates	(5)	Other:			
D.O. (if req'o	d): Pro	e-purge:	anni gun inn an dealach a Ganacha An Gean ann an St	mg/L	Po	ost-purge:		an a sugar ann a sugar agus ann an sugar ann a	nig/1
O.R.P. (if red	q'd): Pre	e-purge:		mV	Po	ost-purge:		an a	mV

V CL MONITORING DATA SHF f

		I	W_LL MONI	FORING DAT.	A SHE			
Project #:	280420)-BD(1	Client: Typpet Env. Services				
Sampler:	MT,BD			Date: 04.30	.08			
Well I.D.:	mil-5			Well Diamete	r: ② 3 4	6 8		
Total Well	Depth (TI	D): 3 .	87	Depth to Wate	er (DTW): 9 ,	0		
Depth to F	ree Produc	:t:	**************************************	Thickness of I	Free Product (fe	et):		
Referenced	l to:	PVC	Grade	D.O. Meter (if	req'd):	YSI HACH		
DTW with	80% Rech	arge [(F	leight of Water	Column x 0.20)) + DTW]: /() .	.05		
Purge Method:	Bailer Disposable E Positive Air Electric Subi	Bailer Displaceme nersible	ent Extra Other	Waterra Peristaltic ction Pump	Sampling Method	: Bailer Disposable Bailer Extraction Port Dedicated Tubing		
· 76 (1 Case Volume	Gals.) XSpec	3 ified Volum	$\underline{-} = 2.28$ Calculated Vo	_ Gals. 3"	er Multiplier Well 1 0.04 4" 0.16 6" 0.37 Other	Diameter <u>Multiplier</u> 0.65 1.47 radius ² * 0.163		
Time	Temp (°F or C	pH	Cond. (mS or (IS)	Turbidity (NTUs)	Gals. Removed	Observations		
1359	20.8	7.00	1121	71000	.16			
1103	14.7	7.00	1100	7[000	1.52			
140+	13.7	+-29	1148	7/000	2.28			
					Dtw-10.72	-		
Did well de Sampling D	water?	Yes	No Sampling Time	Gallons actuall	y evacuated: 7	2.28		
Sample I D	·MILLE			I oboratorra		. 10.05		
Analyzed fo		DTEV				Other 16 ment		
ERID (if a	nnliachla)	BIEX	@	Oxygenates (5)	Other:			
Analyzed fo	r: TPH-G	BTFY	Time MTRE TPUD	Duplicate I.D. (11 applicable):			
D.O. (if real	d): Pri	e-purge	·········		outer.	mg/.		
D.R.P. (if re	q'd): Pro	e-purge:		mV Pr	ost-nurge.	' L m\//		
<u> </u>	· · · · ·	1			Pur 60.	111 V		

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Project #:	80430-	BDI		Client: Impact Environmental Services					
Sampler: MT, BD					Date: 04-30-08				
Well I.D.: mw-6					Diameter	: <i>O</i> 3 4	68		
Total Well	Depth (TI	D): 🖌	4.44	Depth	to Wate	er (DTW): 8.	60		
Depth to F	ree Produc	t:		Thick	Thickness of Free Product (feet):				
Referenced	l to:	PVC	Grade	D.O. 1	Meter (if	'req'd):	YSI HACH		
DTW with	80% Rech	arge [(F	leight of Water	Colum	n x 0.20) + DTW]:	9.76		
Purge Method: Bailer Waterra Sampling Method: Bailer MDisposable Bailer Peristaltic MDisposable Bailer MDisposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other: Vell Diameter Multiplier Multiplier 1" 0.04 4" 0.65									
<u> </u>	Gals.) X Spec	<u>3</u> ified Volun	$\underline{} = \underline{} \frac{2.7}{\text{Calculated Vo}}$	_Gals. Jume	2" 3"	0.16 6" 0.37 Othe	1.47 r radius ² * 0.163		
Time	Temp (°F or O	рН 7.13	Cond. (mS or aS) 734.5	Tur (N'	bidity TUs)	Gals. Removed	Observations		
1156	20.1	7.23	721.2	10	200	1.8	Cloudy		
1159	19.0	7.13	693.6	710	200	2.7			
Did well de	water?	Ves		Galler					
Sampling D	late: (1) 1 7	103 C	Sampling Time			y evacuated:	2. T		
Sample I.D.	: mw-	- 6		Labora	torv:	Kiff CalScience	r: 9.76		
Analyzed fo	or: TPH-G)	(BTEX)	MTBE TPH-D	Oxvgen	tes(5)	Other: Mal a (
EB I.D. (if a	applicable)	:	@ Time	Duplic	ate ID (if applicable).	// (
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:			
D.O. (if req'	d): Pr	e-purge:	an fan de service and an	^{mg} /L		ost-purge:	^{mg} / _{I.}		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	Po	ost-purge:	mV		

V CL MONITORING DATA SHI

Project #:080430-BDI Client: Impact Environmental Services							
Sampler: 1	MT, BD)		Date: 04-30-08			
Well I.D.:	MW-7			Well Diameter	: 2 3 4	68	
Total Well	Depth (TI): [3.	81	Depth to Wate	r (DTW): 8.9	6	
Depth to Fi	ree Produc	t:		Thickness of F	Free Product (fe	et):	
Referenced	to:	PVC	Grade	D.O. Meter (if	req'd):	YSI HACH	
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20) + DTW]: <i>[O</i>	.83	
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Dedicated Tubing Electric Submersible Other Other Other: Vell Diameter Multiplier Multiplier Multiplier 1" 0.04 4" 0.65							
I Case Volume	Gals.) XSpeci	<u>3</u> Ified Volum	$\underline{} = \frac{2.31}{\text{Calculated Vol}}$	_ Gals. 2" olume 3"	0.16 6" 0.37 Other	1.47 radius ² * 0.163	
Time 1148 1157	Temp (°F or Ċ) 21-8	^{рН} 7,80 7,11	Cond. (mS or (S) 568.9	Turbidity (NTUs) 99.9 00.0	Gals. Removed	Observations	
1152	20.6	7.12	608.3	<u> </u>	731		
					$T_{1}/-17.70$		
				E PI			
Did well de	water?	Yes (No	Gallons actuall	v evacuated: 7	.31	
Sampling D	ate:04.3	2-08	Sampling Time	: 12:20	Depth to Water	r: 10.80 (united)	
Sample I.D.	: Mw	ケ		Laboratory:	Kiff CalScience	Other Tarvent	
Analyzed fo	r: TPH-G	BTEX (MTBE (TPH-D)	Oxygenates (5)	Other: Motor ()	il	
EB I.D. (if a	pplicable)	*	@ Time	Duplicate I.D. (if applicable):		
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:		
D.O. (if req'	d): Pr	e-purge:		^{mg} /L Pc	ost-purge:	^{mg} /L	
O.R.P. (if re	q'd): Pro	e-purge:		mV Po	ost-purge:	mV	

V CLL MONITORING DATA SHF r

Project #:080430-BD1	Client: Im	Client: Impact Environmental Services				
Sampler: MT, BD	Date: 04 -	30.08				
Well I.D.: Mw-8	Well Diamete	er: 🙆 3 4	68			
Total Well Depth (TD): 27.55	Depth to Wat	er (DTW): 9.8	82			
Depth to Free Product:	Thickness of	Thickness of Free Product (feet):				
Referenced to: PVC Grade	D.O. Meter (i	f req'd):	YSI HACH			
DTW with 80% Recharge [(Height of Wa	ter Column x 0.2	0) + DTW]: B	.36			
Purge Method: Bailer Disposable Bailer Positive Air Displacement Ex Electric Submersible Other	Waterra Peristaltic traction Pump <u>Well Diame</u>	Sampling Method Other eter Multiplier Well 0.04 4"	l: Bailer Disposable Bailer Extraction Port Dedicated Tubing Diameter Multiplier 0.65			
$\frac{2 \cdot 0}{1 \text{ Case Volume}} (\text{Gals.}) X = \frac{0 \cdot 1}{\text{Specified Volumes}} = \frac{0 \cdot 1}{\text{Calculated}}$	Gals. 2" Volume 3"	0.16 6" 0.37 Othe	1.47 r radius ² * 0.163			
Time Temp (°F or (C) pH (mS or (S) 0949 17.9 1342 6956 17.9 7.59 597.7 (001 18.1 7.14 57.41	Turbidity (NTUs) 34.9 99.9 99.9	Gals. Removed Z. B 5.6 8.4	Observations			
Did well dewater? Yes No Sampling Date: CH.30.CS Sampling Ti Sample I.D.: MW-8	Gallons actual me: 10:11 Laboratory:	ly evacuated: E Depth to Wate Kiff CalScience	3.4 r: 1035 e Other Tarvent			
Analyzed for: TPH-G (BTEX) (MTBE) (TPH-D	Oxygenates (5)	Other: Mala (*);/			
EB I.D. (if applicable):	Duplicate I.D.	(if applicable).	~(1			
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5)	Other:				
D.O. (if req'd): Pre-purge:	^{mg} /L	Post-purge:	nng/L			
O.R.P. (if req'd): Pre-purge:	mV I	Post-purge:	mV			

V LL MONITORING DATA SHI f

Project #:080430 - BD1	Client: Impact Environmental Services					
Sampler: MT, BD	Date: 04-30-08					
Well I.D.: GW-1	Well Diameter: 2 3 🛷 6 8					
Total Well Depth (TD): 17.05	Depth to Water (DTW): 9.34					
Depth to Free Product:	Thickness of Free Product (feet):					
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH					
DTW with 80% Recharge [(Height of Wate	er Column x 0.20) + DTW]: 10, 88					
Purge Method: Bailer Disposable Bailer Positive Air Displacement Extr Electric Submersible Other	Waterra Sampling Method: Bailer Peristaltic Disposable Bailer raction Pump Extraction Port Dedicated Tubing Other:					
$\frac{5}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{15}{\text{Calculated Volumes}}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
TempCond.Time(°F or OpH(mS or OS)	Turbidity (NTUs)Gals. RemovedObservations00000000000000000000000000000000000					
1021 188 6.62 1631	12 5 Icloud					
1037 .0.0 103Q	- 10 10 (RD)					
* 11.11 1	10					
1100 18.7 6.61 1671	[] [] [] [] [] [] [] [] [] [] [] [] [] [
Did well dewater? Yes No	Gallons actually evacuated: 10					
Sampling Date:04.30.08 Sampling Tir	me: 1100 Depth to Water: 10 00					
Sample I.D.: GW-1 Laboratory: Kiff CalScience Other Tailore of						
Analyzed for: TPH-G (BTEX (MTBE (TPH-D) Oxygenates (5) Other: Mathic ())						
EB I.D. (if applicable):	Duplicate I.D. (if applicable):					
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5) Other:					
D.O. (if req'd): Pre-purge:	^{mg} / _L Post-purge: ^{mg}					
O.R.P. (if req'd): Pre-purge:	mV Post-purge: m ^v					

V LL MONITORING DATA SHI ſ

Project #:C	80430-	BOI		Client: Impact Environmental Services				
Sampler: 1	MT, BD)		Date:	Date: 04-30-08			
Well I.D.;	GW	-2		Well I	Diameter	: 2 3	Ø	6 8
Total Well	Depth (TI	D): 17	00	Depth	to Wate	r (DTW):	<i>9</i> ,	70
Depth to Fr	ee Produc	t:		Thick	ness of F	ree Produ	ct (fee	et):
Referenced	to:	PVC	Grade	D.O. N	Meter (if	req'd):		YSI HACH
DTW with	80% Rech	arge [(H	leight of Water	Colum	n x 0.20) + DTW]	: /	1.16
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic X Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port X Electric Submersible Other Dedicated Tubing Well Diameter Multiplier Well Diameter Multiplier 4. 7 (Gals.) X 3 = Itdel Cols 2" 0.16 6" 147								
1 Case Volume	Gals.) X Spec	<u> </u>	$\underline{} = \underline{} $	_ Gals. olume	2"	0.16 0.37	6" Other	1.47 radius ² * 0.163
Time <i>0450</i>	Temp (°F or)	рН 7.0 /	Cond. (mS or uS)	Turi (N	bidity TUs)	Gals. Rem	oved	Observations
0951	17.3	6.83	1327		5	90		
0952	17.6	6.75	1325	10	3	14 1		
0953 -	* Well	dewa	tered @	3-2	C.V.			
Did well dev	water?	Yes	No	Gallon	s actuall	y evacuate	d:	14 1
Sampling D	ate:04.3	0.08	Sampling Time	: 10,	15	Depth to V	Water	1091
Sample I.D.	Sample I.D.: GW-2 Laboratory: Kiff CalScience Other Taxonovat							
Analyzed for: TPH-G BTEX MTBE (TPH-D, Oxygenates (5) Other: Make (1)1								
EB I.D. (if a	EB I.D. (if applicable): [@] Duplicate I.D. (if applicable):							
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:		
D.O. (if req'	d): Pr	e-purge:	na o na serie de la serie d	^{mg} /L	Po	ost-purge:		mg/L
O.R.P. (if re	q'd): Pr	e-purge:		mV	Po	ost-purge:		mV

V CL MONITORING DATA SHI

Project #:080430-BD1 Client: Impact Environment							mental Services	
Sampler: j	MT, BD)		Date: a	Date: 04-30-08			
Well I.D.:	GW-3	3		Well D	iameter	: 2 3 🗳	0 6 8	
Total Well	Depth (TI	D): /7	7. 98	Depth	to Wate	r (DTW): 🔗.	60	
Depth to F	ree Produc	t:		Thickn	less of F	ree Product (f	eet):	
Referenced	l to:	PVC	Grade	D.O. M	leter (if	req'd):	YSI HACH	
DTW with	80% Rech	arge [(H	leight of Water	· Columr	n x 0.20)) + DTW]:	11.27	
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other:								
<u>5.9</u> (1 Case Volume	Gals.) XSpec	3 ified Volum	= <i>[6.2</i> nes Calculated Vo	_ Gals. olume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Oth	0.65 1.47 er radius ² * 0,163	
Time	Temp (°F or °C) 22 . 2	рН 6.70	Cond. (mS or AS)	Turb (NT	Didity TUs)	Gals. Removed	l Observations	
1118	20.1	7.00	1145	1000 10.8				
1119	19.4	6.97	1157	10	200	16.2		
			0					
Did well de	water?	Yes (No	Gallons	actuall	y evacuated:	16.2	
Sampling D	ate:04.3	0.08	Sampling Time	e: 113	'S-	Depth to Wat	er: 11.27	
Sample I.D	: GW-	3		Laborat	tory:	Kiff CalSciend	ce Other Tarvent	
Analyzed for: TPH-G BTEX MTBE (TPH-D Oxygenates (5) Other: Motor Oil								
EB I.D. (if a	EB I.D. (if applicable):							
Analyzed fo	Dr: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other:		
D.O. (if req	'd): Pr	e-purge:		^{mg} /L	Po	ost-purge:	^{nig} /L	
O.R.P. (if re	eq'd): Pr	e-purge:		mV	Po	ost-purge:	mV	

V LL MONITORING DATA SHI f

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME				PROJECT NUMBER				
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS	
Citrameter	6215727	୦୳/3୦/୦୫ ୦୫୯୦	4 р4 сбар 7 р4 10 р4	PH 10-10,04 7-6.98 (103,04) 4-4.05 000	405	14.7 6	mt	
HACH Tur B	23627	04/30/08 0924	70.1 20 100 860	6.1 20 101 800	yes		Mt	
Hach Turb	26776	0926		0.1 20 100 801	4e5		-	
			-	e*				
						· · ·		

A or Purge Water Drum L

Client: <u>Impact</u>		
Site Address: 1409 12th 54	Oakland	
STATUS OF DRUM(S) UPON	IARRIVAL	
Date	04/20/28	
Number of drum(s) empty:	7	
Number of drum(s) 1/4 full:	8	
Number of drum(s) 1/2 full:		
Number of drum(s) 3/4 full:	Ð	
Number of drum(s) full:	13	
Total drum(s) on site:	2	
Are the drum(s) properly labeled?	yes	
Drum ID & Contents: 5	al purge H20	
If any drum(s) are partially or totally filled, what is the first use date:	4-6-08	

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON	DEPARTURE	
Date	5-1/30/040	
Number of drums empty:	6	
Number of drum(s) 1/4 full:	Ø	
Number of drum(s) 1/2 full:	1	
Number of drum(s) 3/4 full:	Ant	
Number of drum(s) full:	1214	
Total drum(s) on site:	21	
Are the drum(s) properly labeled?	Yes	
Drum ID & Contontor	4oil prince	
Drum ID & Contents.	rray 1	
LOCATION OF DRUM(S)	<u>F (, 1124</u>]	
LOCATION OF DRUM(S) Describe location of drum(s):	<u>r (, muq)</u>	
LOCATION OF DRUM(S) Describe location of drum(s):	<u>r</u>	
LOCATION OF DRUM(S) Describe location of drum(s): FINAL STATUS	<u>r c muq</u>	
LOCATION OF DRUM(S) Describe location of drum(s): FINAL STATUS Number of new drum(s) left on site this event	B	
LOCATION OF DRUM(S) Describe location of drum(s): FINAL STATUS Number of new drum(s) left on site this event Date of inspection:	B DU/30/08	
LOCATION OF DRUM(S) Describe location of drum(s): FINAL STATUS Number of new drum(s) left on site this event Date of inspection: Drum(s) labelled properly:	10 10 04/30/08 465	
LOCATION OF DRUM(S) Describe location of drum(s): FINAL STATUS Number of new drum(s) left on site this event Date of inspection: Drum(s) labelled properly: Logged by BTS Field Tech:	B 04/30/08 65 Mt	

WELLHEAD INSPECTION CHECKLIST

Page _____ of _____

Date <u>04</u> .	30.08	Client	Impa	ot En	IV. Se	Nices		
Site Address 1409-1417 12th St. Oakland, CA								
Job Number	080430-	BDI		. Teo	chnician	BD, N	1T	
Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	X							
MW-Z	λ							
MW-3	X		5.e.					
Ma-4	X		1			· · · · · · · · · · · · · · · · · · ·		
MW-5	X			······································				
MW-6	X					·····		
MW-7	X							
Mw-3	X							
GW-1	×)			****				
Gw-Z	X		· · · · · · · · · · · · · · · · · · ·					
GW-3	X							
· · · · · · · · · · · · · · · · · · ·								
	v		·	<u></u>				
	· · · · · · · · · · · · · · · · · · ·		etc."					
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NOTES:		I	,				**************************************	L]