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March 19, 2013

By Alameda County Environmental Health at 3:47 pm, Apr 01, 2013

Mr. Keith Nowell
Alameda County Health Care Services
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject:

Closure Verification Soil and Soil-Vapor Sampling Report _RO0002933

1409 – 1417 12th Street, Oakland, California

Dear Mr. Nowell:

Attached is the Closure Verification Soil and Soil-Vapor Sampling Report for the property located at 1409 – 1417 12th Street, Oakland, California.

Certification

I certify under penalty of law that this document and attachments are prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing the violations.

Please contact Joseph Cotton at (510)703-5420 if you have questions or comments.

Sincerely,

Shirley E. Thompson

Shirley E. Thompson

Property Owner

SITE CLOSURE VERIFICATION SOIL & SOIL-VAPOR SAMPLING REPORT 1409 – 1417 12th Street OAKLAND, CALIFORNIA

Prepared for

Shirley Thompson 1155 Hopkins Street Berkeley, CA 94702

March 31, 2013

Prepared by



Impact Environmental Services

39120 Argonaut Way, Suite 223 Fremont, California 94538

IES

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

SITE CLOSURE VERIFICATION SAMPLING REPORT 1409-1417 12TH STREET OAKLAND CALIFORNIA

ACEH File No. RO2933

On behalf of Mrs. Shirley E. Thompson, Impact Environmental Services nefarious (Impact) is presenting this Site Verification Closure Report for 1409-1417 12th Street in Oakland, California (Figure 1). This report presents the results of soil and soil-vapor sampling to verify that site petroleum hydrocarbon contamination in soil has been reduced using Dual-Phase Vacuum Enhanced Extraction to a concentration to validate petitioning the Alameda County Environmental Health Services (ACEH) for corrective action closure. The investigation was conducted to satisfy ACEH closure requirements related to the unauthorized fuel release at the subject property¹.

SITE CONTACT INFORMATION

The site address and contact information for the subject property is as follows:

Site Address: Contact Information:

1409-1417 12th Street Mrs. Shirley E. Thompson

Oakland, CA Edward C. & Shirley E. Thompson Trust

APN 004-063-06 1155 Hopkins Street

Berkeley, CA 94702-1359

SITE BACKGROUND

Site Description

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

¹ Alameda County Environmental Health, "Fuel Leak Case No. RO2933, 1409-1417 12th Street, Oakland, California CA 94607-2003_Request for Work Plan", February 26, 2007.

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 2 feet high are present in the southeast portion of the subject property.

Historical Site Operation

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. Communications with Oakland Fire Department Hazardous Materials Division, confirmed that no records of UST removal exist for 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 a "Merritt Sand Outcrop" groundwater subarea, which has a maximum thickness of 65 feet, and the local gradient is directed toward the west to southwest³. Soil beneath the property consists primarily of silty-sand to at least 16 feet bgs. Groundwater is first encountered between 10.5 and 13.5 below ground surface (bgs) and stabilizes at approximately 11 feet bgs. A perched groundwater zone was present at approximately 5-feet bgs over most of the site. The direction of groundwater flow in the surrounding area is highly varaible⁴. The direction of groundwater flow at the site is currently unknown.

² Personal 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.

⁴ Personal Communication, Steven Plunkett, Alameda County Environmental Health, March 30, 2007.

HISTORICAL ENVIRONMENTAL ASSESSMENT

Previous Phased Environmental Investigations

The 1409-1417 12th Street site has been the subject of numerous environmental investigations^{5,6,7-8,9} beginning in 1999. The suspected source of on-site contamination is believed to be from residual fuel from former underground storage tanks (USTs) associated with service station operations. Petroleum hydrocarbons have been detected in on-site soil, soil-vapor, and groundwater samples at concentrations that exceed environmental screening levels (ESLs)¹⁰ for residential land-use. Significant concentrations of (total petroleum hydrocarbons (TPH) as gasoline (TPHg) up to 20,000 milligrams per kilogram (mg/kg) and volatile organic compounds (VOCs) to 120 mg/kg were detected in soil samples collected from the site. TPHg was detected in groundwater samples at a maximum concentration of 52,000μg/L. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater at maximum concentrations of 8,700μg/L, 2,200μg/L, 2,000μg/L, 7,200μg/L, respectively. 1, 2-Dichloroethane was detected at a maximum concentration of 570μg/L. Soil-vapor samples collected from the site were found to contain TPHg at a maximum concentration of 52,000μg/m³, benzene as high as 1,200 μg/m³, and vinyl chloride to 260μg/m³.

In March 2008, eleven groundwater-monitoring wells (MW-1 through MW-8 and GW-1 through GW-3) were installed at the subject property. Shallow groundwater elevations occur from 9 to 11 feet below ground surface. In general, shallow groundwater flow is toward the south towards San Francisco Bay.

A dual-phase vacuum extraction (DPE) pilot test was conducted at the subject property in October 2008. The pilot test was conducted to evaluate DPE technology as a viable method to cleanup petroleum hydrocarbons from soil and groundwater at the site. The results of pilot test indicated that DPE was a viable technology for mitigating petroleum hydrocarbons from unsaturated soil and groundwater from the subject property.

⁵ Blymer Engineers, Inc., Subsurface Investigation Vacant Parcel 1409-1417 12th Street, Oakland, California, August 25, 1999.

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.

⁸ Impact Environmental Services, Remediation Workplan Site 1409-1417 12th Street Oakland California, October 17, 2007.

⁹ Impact Environmental Services, Groundwater Well Installation & Initial Quarterly Groundwater Monitoring Report for 1409 - 1417 Street, Oakland, California, October 9, 2008.

¹⁰ San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater-Interim Final, May 2008.

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A dual-phase vacuum extraction (DPE) pilot test was conducted at the subject property in October 2008. The pilot test was conducted to evaluate DPE technology as a viable method to cleanup petroleum hydrocarbons from soil and groundwater at the site. The results of pilot test indicated that DPE was a viable technology for mitigating petroleum hydrocarbons from unsaturated soil and groundwater from the subject property.

In January 2009, eight dual phase extraction wells (DPE-1, DPE-1B, DPE-2, DPE-2B, DPE-3, DPE-5, DPE-6, and DPE-7) were installed at the property under the direction of IMPACT. In addition, existing wells GW-1, GW-3, and MW-8 were converted for dual use as both groundwater monitoring and DPE wells.

In February 2009, IMPACT and its subcontractor's OTG Environmental Engineering were retained to design the DPE system for the site. In April 2009, Ashby Excavation and Construction was retained by IMPACT to construct the DPE containment building. Mako Industries Inc. was contracted by IMPACT to build the liquid-ring, high vacuum extraction and thermal oxidizer treatment system trailer. Ashby completed the containment building and underground DPE groundwater/vapor recovery piping in October 2009. Pacific Gas & Electric completed gas and electric connections to the site in November 2009. Piping from the eleven DPE wells were connected to a central manifold located within the containment building. Final connections were made to the DPE trailer, manifold, thermal oxidizer system, and liquid-phase granular activated carbon vessels in December 2009.

On January 13, 2010, the remediation system was turned on after laboratory results of the Day 1 samples met the discharge requirements. The discharge of the treated water began on January 13, 2010. The remediation system ran continuously for another five days and was then sampled again on January 18 following the NPDES permit requirement. The Day 5 samples were delivered to Torrent Laboratory under 24-hr turnaround time analysis. The remediation system ran continuously from January 18, 2010 through July 23, 2010, except on occasions when the DPE unit was automatically turned off (tripped) due to low pressure of natural gas supply from PG&E.

On May 5, 2011 the DPE System was restarted and monthly NPDES groundwater sampling was resumed. Groundwater-soil vapor extraction wells DPE-1 and DPE-2 were disconnected from the DPE collection network and used as bleeder wells to supplement air flow to the nearby subsurface. The DPE system ran continuously from May 5, 2011 through October 31, 2011, except on occasions when the DPE system tripped. The DPE system was shut down on October 31, 2011 to evaluate remediation effectiveness on groundwater quality. In addition, periodic manual hydrogen peroxide treatment was resumed at wells MW-8, GW-1, GW-3, DPE-1B, and DPE-3 following the shutdown of the DPE system. Semiannual groundwater monitoring for 2011 was performed in the months of June and December.

SCOPE OF WORK FOR SITE VERIFICATION CLOSURE SAMPLING

This report describes our efforts to evaluate the presence of residual petroleum hydrocarbons in soil and groundwater following significant treatment of soil and groundwater using a dual-phase vacuum enhanced extraction in conjunction with manual hydrogen peroxide treatment of groundwater. Historical results from on-site wells appear to indicate that concentrations of constituents of concern in groundwater are below or almost achieving environmental screening limits for residential development. Closure verification soil and soil-vapor samples were collected to evaluate whether the dual-phase vacuum extraction removed sufficient petroleum hydrocarbons to allow IMPACT to petition for corrective action closure for the subject site. IMPACT anticipates petitioning for corrective action closure of the site upon completion of the following scope of work.

- Installing eight exploratory borings near source areas where petroleum hydrocarbon contamination has been previously documented to evaluate the effectiveness of DPE remediation;
- Installing seven semi-permanent soil-vapor wells near source areas where petroleum hydrocarbon contamination has been previously documented to evaluate the effectiveness of DPE remediation;

- Collecting and analyzing soil and soil-vapor samples for petroleum hydrocarbons and select volatile organic compounds for comparison with RWQCB's environmental screening levels (ESLs)¹¹ for residential land-use.
- Evaluating historical groundwater well sample results for comparison with RWQCB's ESLs for residential land-use.
- Preparing this Site Remediation Verification Closure Report.

Pre-Field Activities

Prior to drilling, IMPACT obtained a drilling permit to install the exploratory borings and install soil-vapor wells from Alameda County Public Works Department. The drilling permit is presented in Appendix A. Underground Service Alert (USA) cleared the perimeter of the site for underground utilities. C-Cruz Underground Utility Locators (C-Cruz) of Milpitas, California cleared boring and soil-vapor well locations for underground utilities.

Drilling and Sampling Methods

Environmental Control Associates (ECA), a licensed driller from Aptos, California, completed the borings using direct-push drilling methods. Borings were advanced using the Enviro-Core sampling system. The Enviro-Core system consists of 2.5-inch-diameter steel drive casing and a 1.8-inch-diameter inner sample barrel that are simultaneously pushed, driven, or vibrated into the ground. Continuous soil cores were collected in butyrate tubes inside the inner sample barrel. After being advanced to the desired interval (usually three to four-feet), the inner sample barrel was retrieved while the drive casing was left in place to prevent borehole collapse. After retrieving the inner core barrel, the samples were removed for chemical analyses or lithologic identification. 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. Soil samples were not retrieved from soil-vapor pilot borings.

Eight closure verification exploratory borings (CSB-1 through CSB-8) and seven closure verification soil-vapor wells were completed at the site on May 8th through May 10th.

¹¹ San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater-Interim Final, May 2008.

Closure verification soil boring locations are shown on Figure 3. Soil samples were collected from exploratory borings at every few feet from 5-feet and generally from 5, 7, 10 12, 15, and in some borings as deep as 18-feet bgs. All eight exploratory verification soil borings were completed to depths between 15 and 18-feet bgs. Soil samples were analyzed for TPHd and TPHmo by EPA Method 8015; TPHg, BTEX and fuel oxygenates by EPA Method 8260. Soil samples for laboratory analysis were properly containerized, labeled, and preserved upon collection. The soil core from each boring was logged according to the Unified Soil Classification System (USCS) by a professional geologist certified by the State of California. Boring logs are presented in Appendix B. Chain-of-custody documentation accompanied the samples to the laboratory for analysis.

All down-hole equipment was triple-rinsed before use and between borings. Following completion of sample collection, each boring was grouted to the surface with bentonite-cement slurry using a tremie pipe.

Soil-Vapor Sample Collection

On May 16th and 17th, IES collected nine soil vapor samples at the locations shown on Figure Soil-vapor sampling was conducted in accordance with the Department of Toxic Substance Control California Environmental Protection Agency (DTSC) guidance document¹². Closure verification soil-vapor well locations are presented on Figure 4. Soilvapor wells were installed to a depth of 5-feet bgs. Soil-vapor probes were installed using a direct-push sampling rig. The probes were installed by pushing a hollow rod with a retractable tip to the target sampling depth of 5 feet bgs. After reaching the target sampling depth, the sampling rod was withdrawn 6 inches, exposing a screened interval immediately above the retractable tip. Before retraction, the screened interval was pre-connected to polyethylene tubing that extended to the surface. The lower 9-inches of the borehole were filled with aquarium gravel and the remaining boring was filled to the surface with bentonite to inhibit surface air intrusion. The soil-vapor well was completed with a locking well box. Diflouroethane was used along the sampling train to provide leak detection material. The sampling train volume was purged three times at a rate of approximately 100 milliliters per minute (ml/min) using a 100-ml syringe. A 6-liter Summa canister was used to collect a sample at a rate of 100 to 200 ml/min. Summa canisters were labeled and transported (non-

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¹² DTSC Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air-Interim Final, February 7, 2005.

chilled) to Torrent Labs of Milpitas, California under chain-of-custody control and documentation. After completion of sampling, the rod was withdrawn and the boring was backfilled with neat cement mixed with 4% bentonite.

Soil-vapor samples were analyzed for TPHg by modified EPA Method TO-3 and BTEX and MTBEs by EPA Method TO-15.

SITE CHARACTERIZATION RESULTS

Closure Verification Soil Sample Results

Forty-six closure verification soil samples were collected from eight borings at depths ranging from 5 to 18 feet bgs. The locations of the closure verification soil borings are shown on Figure 3. Soil samples results are summarized in Tables 1 and associated laboratory CARs are presented in Appendix C. Sample results are discussed later in the following sections.

Closure Verification Soil-Vapor Sample Results

Seven soil-vapor samples (CSV-1 through CSV-7) were collected from the locations shown on Figure 4. Verification closure soil-vapor sample results are summarized in Table 2 and laboratory CARs are presented in Appendix B. Soil-vapor sample results are discussed later in the following sections.

Quality Control Results

Quality control (QC) sample results and laboratory QC data were evaluated to assess the acceptability of the analytical data. Laboratory QC results are included with the certified analytical reports (CAR) 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. No laboratory QA/QC issues were noted during this investigation, with the following exception. In samples where TPHd was detected in closure verification soil samples, the samples exhibited chromatographic patterns which did not resemble the diesel standard. Notes describing laboratory quality control

issues are included at the end of each CAR. Laboratory QC results indicate that the soil and soil-vapor results are valid and data are acceptable for the intended use.

DISCUSSION OF RESULTS

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

Three soil samples from boring CSB1 and one soil sample from boring CSB6 contained several constituents of concern above their respective ESLs.

The soil sample from a depth of 7 feet bgs in boring CSB1 contained 1,900mg/kg TPHg, 180mg/kg TPHd, 3,100mg/kg ethylbenzene, and 30,900mg/kg total xylenes. The soil sample from a depth of 10 feet bgs in boring CSB1 contained 3,300mg/kg TPHg, 550mg/kg TPHd, 990mg/kg ethylbenzene, and 85,000mg/kg total xylenes. The soil sample from a depth of 12 feet bgs in boring CSB1 contained 2,600mg/kg TPHg, 490mg/kg TPHd, 25,000mg/kg ethylbenzene, and 105,000mg/kg total xylenes. The soil sample from a depth of 10 feet bgs in boring CSB6 contained 10,000mg/kg TPHg and 3,500mg/kg of TPHd. All remaining soil samples did not contain constituents of concern at or above respective ESLs.

Closure verification soil-vapor samples did not contain constituents of concern at or above respective ESLs.

LOW-RISK GROUNDWATER CASE CLOSURE CRITERIA

Based on the information presented above, the site does not meet all the RWQCB criteria for a low-risk fuel site. As described in the January 5, 1996 RWQCB-SF memorandum Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites, a low-risk groundwater case has the following general characteristics:

- 1) The unauthorized release is located in the service area of a public water system.
- 2) The unauthorized release consists only of petroleum.
- 3) The unauthorized release primary release from the UST system has been stopped.

- 4) Free-product has been removed to the maximum extent practicable.
- 5) A conceptual site model that assesses the nature, extent, and mobility of the release has been developed.
- 6) Soil and groundwater has been tested for MTBE and results reported accordingly.
- 7) Nuisance conditions as defined by the Water Code section 130505 does not exist at the site,
- 8) The dissolved petroleum hydrocarbon plume must be stable and not migrating,
- 9) Secondary sources have been removed to the extent practicable.

All of the low-risk groundwater case characteristics for the site have been achieved with the exception of secondary source removal. Closure verification soil samples collected from borings CSB-1 and CSB indicate that secondary sources in the form of soil contaminated with petroleum hydrocarbons and groundwater in wells GW-1 and DPE-3 are present in the subsurface at concentrations above ESLs. It appears that elevated concentrations of petroleum hydrocarbons in soil are negatively impacting groundwater and preventing the site from achieving environmental screening levels for petroleum hydrocarbons in groundwater.

Groundwater remediation via DPE and hydrogen peroxide dosing in select wells at the site has significantly reduced petroleum hydrocarbons in groundwater. Constituents of concern are below respective ESLs in all but a few wells and appear to be relatively stable and contained within the boundaries of the subject property.

CONCLUSIONS

Based on the results of soil and soil-vapor results collected from closure verification sampling efforts, the following are IMPACTs conclusions regarding the current environmental disposition at the subject 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) near wells DPE-1B/GW-1 (CSB6) and DPE-3/GW-3 (CSB-1).
- Closure verification soil-vapor samples did not contain constituents of concern at or above respective ESLs.
- It appears that elevated concentrations of petroleum hydrocarbons in soil are negatively impacting groundwater and preventing the site from achieving associated environmental screening levels for petroleum hydrocarbons in groundwater.

RECOMMENDATIONS

IMPACT recommends the following tasks be completed to move the site towards environmental corrective action closure and protect potential receptors.

- Impact recommends that soil in two separate hot-spot areas in the vicinity of wells GW-1 (Excavation Area 1) and DPE-3 (Excavation Area 2) be excavated and transported off-site to an appropriate landfill facility. The locations of the proposed areas of excavation are shown on Figure 11.
- Impact also recommends that the excavated soil be segregated in the field using screening methods including staining, odor, and PID readings of soil. Soil will be placed in separate stockpiles based on the level of TPH contamination and sampled for reuse in accordance with RWQCB guidelines. The stockpiles will also be sampled for disposal in accordance with local landfill requirements. It is estimated that soil from Excavation 1 will need to be excavated to a depth of approximately 12 to 13 feet and soil from Excavation 2 will need to be excavated to a depth of approximately 14 to 15 feet bgs.
- Impact recommends that groundwater monitoring wells and DPE wells within and near the proposed excavations be decommissioned in accordance with the California Well Standards. These wells include MW-8, GW-1, DPE-1B, and DPE-5 in Excavation Area 1 and wells GW-3 and DPE-3 in Excavation Area 2.
- Impact further recommends that Oxygen Releasing Compound (ORC) be placed in the lower section of the excavations prior to being backfilled to grade with clean reused soil and clean imported soil.
- Impact recommends continuing groundwater monitoring on all remaining groundwater monitoring wells and DPE wells for 2 remaining quarters following excavation of TPH-impacted soils.

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.

Impact Environmental

Joseph A Cotton, P.G. 7378

Principal Geologist

Impact Environmental

Attachments:

Tables

Table 1 – Closure Verification Soil Sample Analytical Results

Table 2 – Closure Verification Soil-Vapor Sample Analytical Results

Figures

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Map Showing Closure Soil Sample Analytical Results

Figure 4 – Map Showing Closure Verification Soil-Vapor Sample Analytical Results

Figure 5 – Map Showing Extent of Proposed Excavation Area

Appendices

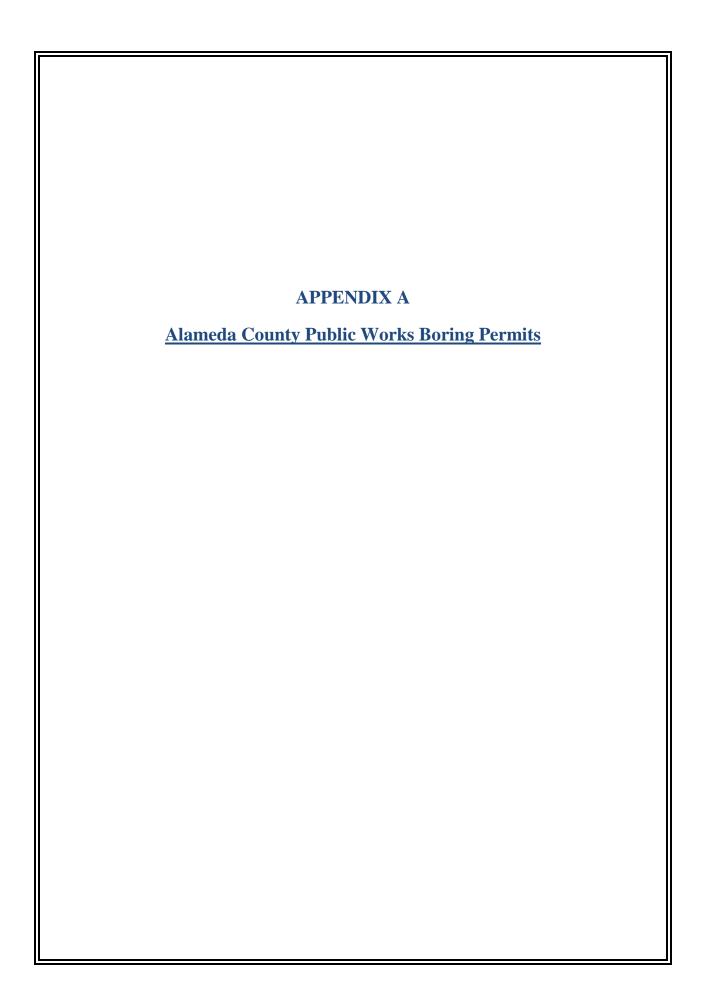
Appendix A – Contra Costa County Boring Permit

Appendix B – Boring Logs

Appendix C - Laboratory Certified Analytical Report

LIMITATIONS

Impact Environmental Services 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.



Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 05/01/2012 By jamesy Permit Numbers: W2012-0298 to W2012-0299 Permits Valid from 05/03/2012 to 05/07/2012

Application Id: 1334997003644 City of Project Site:Oakland

Site Location: 1409-1417 12th Street, Oakland, CA
Project Start Date: 05/03/2012 Completion Date:05/07/2012

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

Applicant: IMPACT ENVIRONMENTAL - JOSEPH Phone: 510-703-5420

COTTON

39120 Argonaut Way, #223, FREMONT, CA 94538

1155 HOPKINS STREET, BERKELEY, CA 94702

Property Owner: Mrs. Shirley E. Thompson **Phone:** 510-504-8948

Client: Mrs. Shirley E. Thompson Phone: 510-504-8948

1155 HOPKINS STREET, BERKELEY, CA 94702
Contact: Phone: 510-703-5420

Cell: 510-703-5420

Total Due: \$530.00
Receipt Number: WR2012-0123 Total Amount Paid: \$530.00

Payer Name : Joseph Cotton Paid By: VISA PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 5 Boreholes

Driller: Environmental Control Associates - Lic #: 695970 - Method: DP Work Total: \$265.00

Specifications

 Permit
 Issued Dt
 Expire Dt
 #
 Hole Diam
 Max Depth

 Number
 Boreholes

 W2012 05/01/2012
 08/01/2012
 5
 2.00 in.
 30.00 ft

0298

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. 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

Alameda County Public Works Agency - Water Resources Well Permit

permits and requirements have been approved or obtained.

- 5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@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. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Remediation Well Construction-Vapor Remediation Well - 5 Wells

Driller: Environmental Control Associates - Lic #: 695970 - Method: DP Work Total: \$265.00

Specifications

| Permit # | Issued Date | Expire Date | Owner Well Id | Hole Diam. | Casing Diam. | Seal Depth | Max. Depth |
|----------------|-------------|-------------|------------------|------------|-----------------|------------|------------|
| W2012- 0299 | 05/01/2012 | 08/01/2012 | CSV-1 | 2.00 in. | 1.00 in. | 4.00 ft | 5.00 ft |
| W2012- 0299 | 05/01/2012 | 08/01/2012 | CSV-2 | 2.00 in. | 1.00 in. | 4.00 ft | 5.00 ft |
| W2012- 0299 | 05/01/2012 | 08/01/2012 | CSV-3 | 2.00 in. | 1.00 in. | 4.00 ft | 5.00 ft |
| W2012- 0299 | 05/01/2012 | 08/01/2012 | CSV-4 | 2.00 in. | 1.00 in. | 4.00 ft | 5.00 ft |
| W2012- 0299 | 05/01/2012 | 08/01/2012 | CSV-5 | 2.00 in. | 1.00 in. | 4.00 ft | 5.00 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.
- 2. Permittee, 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. 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. Include permit

Alameda County Public Works Agency - Water Resources Well Permit

number and site map.

- 4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
- 5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@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. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).
- 7. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 8. 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.
- 9. 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.

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| IMPACT E | ıme | nta | al | | | E | BORING LOG | Boring No | |
|--|-------------------------------------|-----------------|--------------|---|-----------------|--------------------------|-------------|--|--------------------------------------|
| Date(s) Installed: Drilling Co./Driller: Drilling Summary: | 05/10/13 NA ENVIRONME Direct push a | ENTAL and vibra | CON ate b | ITRO oring | L AS : | s feet bgs | s. Colle | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: ect continuous cores in butyrate liners for ad caps to seal sample. Place sample in | |
| Sample No. | Sample Interval | PID Reading | Recovery | Sampler | Odor | Depth (ft) | Graphic Log | LITHOLOGY | /REMARKS |
| | | 0 | | | No No | - 1- 2- - 3- | FILL | 0- 2' (FILL) BASEROCK & CONCRETION 2- 18' SILTY SAND (SM): Dark yellow to medium sand. Trace plastic fines. | |
| CSB1-5' | | 18 | | | No | 4- 4- 5- 6- | SM | Perched groundwater zone at 5-6' bg | ıs |
| CSB1-7' | | 35 | | 7 | Yes | 7- - 8- - 9- | | Hydrocarbon odor and color chang | e at 8-11'. |
| CSB1-10' | | 13 | | | Yes | 10 — 11 — 12 — 13 — 14 — | | Sroundwater first encountered at 14' b | ogs. Color change to yellowish brown |
| CSB1-15' | | 0 | | | Yes No No | 15— 15— 16— 16— | | | |
| , <u> </u> | | | <u>/</u> | <u>, </u> | | 18— 19— 20 | | Total Depth of Boring | g= 18 feet bgs |

| IMPACT | Enviror | nmer | ntal | | | E | BORING LOG | Boring No. | | | |
|--|-----------------------------------|-------------|---|--------------|----------------------------|-------------|--|---------------------------------------|--|--|--|
| Client: MRS. S | 1417 12th ST. , SHIRLEY E. THO | | ND, C | Α | | | Ground Elevation: T.O.C. Elevation: | | | | |
| Project Number Date(s) Drilled: Date(s) Installed | 05/10/13 | | | | | | Coordinates: Drilling Method: Borehole Total Depth: | Direct Push-EnviroCore | | | |
| Drilling Summa | - | and vibrat | te borii | ng to 18 | 3 feet bgs | s. Colle | Final Borehole Diameter: | | | | |
| cores selected for laboratory analysis and use teflon liners and end caps to seal sample. Place sample in plastic zip-lock bag. Backfill soil boring using neat cement grout. | | | | | | | | | | | |
| Sample No. | Sample Interval | PID Reading | Recovery | Odor | Depth (ft) | Graphic Log | LITHOLOGY | '/REMARKS | | | |
| | | | | \top | | | 0- 2' (FILL) BASEROCK & CONCRET | E | | | |
| | $\exists \setminus /$ | 0 | | No | 1 1 | FILL | | | | | |
| | | 0 | | No | 2- - 3- | | 2-18' SILTY SAND (SM): Dark yellow to medium sand. Trace plastic fines. | wish brown; moist to very moist; fine | | | |
| | | | <u> </u> | + | 4- | SM | | | | | |
| CSB2- | 5' | 0 | | No | 5 - - 6 - | | -Perched groundwater zone at 5-6' b | gs | | | |
| CSB2- | 7 | | | No | 7- - 8- | | | | | | |
| | | 0 | | No | 9- | | | | | | |
| CSB2-1 | 0' | 0 | \mathbb{A} | | 10 – – 11 – | | | | | | |
| | | 0 | | No | 12- | | | | | | |
| | | | | | 13 — — 14 — | | $rac{	extstyle 	extstyle$ | ogs. | | | |
| CSB2-1 | 51 | | $/\!$ | No | 15 — | | | | | | |
| | | 0 | | | 16 – – 17 – | | | | | | |
| CSB2-1 | 8' | | $/\!\!\mid$ | No | 18- | | | | | | |
| | | | | | | | Total Depth of Boring | g= 18 feet bgs | | | |
| | | | | | 19 — | | | | | | |

| IMPACT | MPACT Environmental | | | | | | | BORING LOG | Well No. N/A Sheet 1 of1_ |
|---|-----------------------|----------------------------------|----------------|--------------------------|--|----------------------------------|-------------|---|--|
| Client: MRS. SH Project Number: Date(s) Drilled: Date(s) Installed: Drilling Co./Drilled Drilling Summary cores selecte | 05/10/13 NA ENVIRONME | ENTAL and vibra | CON rate bo | ITROI oring nd use | to 18 | feet bgs | s. Colle | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: ect continuous cores in butyrate liners for d caps to seal sample. Place sample in | |
| Sample No. | Sample Interval | PID Reading | Recovery | Sampler | Odor | Depth (ft) | Graphic Log | LITHOLOGY | /REMARKS |
| CSB3-7 CSB3-10 CSB3-12 CSB3-15 | | 0 0 0 0 0 0 12 | | | No N | | FILL | 2- 18' SILTY SAND (SM): Dark yellow to medium sand. Trace plastic fines. -Perched groundwater zone at 5-6' by -Hydrocarbon odor and color change to -Hydrocarbon odor -Hyd | vish brown; moist to very moist; fine gs to olive green at 11-14'. |
| CSB3-18 | | | <u> </u> | | No | 17 — — 18 — — 19 — — 20 | | Total Depth of Boring | g= 18 feet bgs |

| IMPACT E | Enviror | ımeı | nta | ય | | E | BORING LOG | Boring No. CSB-4 Well No. N/A Sheet 1 of1_ |
|--|-------------------------------------|-------------------------------------|----------------|----------|---------------------------------------|-------------|---|---|
| Client: MRS. SHI Project Number: Date(s) Drilled: Date(s) Installed: Drilling Co./Driller: Drilling Summary: | 05/10/13 NA ENVIRONME Direct push a | MPSON ENTAL (and vibra y analysi | CONT ate bo | FROL AS | 6 feet bgs | s. Colle | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: ect continuous cores in butyrate liners for d caps to seal sample. Place sample in | |
| Sample No. | Sample Interval | PID Reading | Recovery | Sampler | Depth (ft) | Graphic Log | LITHOLOGY | //REMARKS |
| CSB4-5' | | 0 | | No No No | 1 - 1 - 2 - 3 - 4 - 5 - 6 - 6 - | FILL | 0- 2' (FILL) BASEROCK &Sandy SILT 2- 11' SILTY SAND with clay (SM): moist; fine to medium sand; 25% fines. -Perched groundwater zone at 5-6' b | Dusky red to dark yellowish brown; 10% plastic fines. |
| CSB4-7' | | 13 | | Yes | 7- - 8- - 9- - 10- | | -Hydrocarbon odor and color change to | |
| CSB4-12' CSB4-13' CSB4-15' | | 6 | | Yes | - 12— - 13— - 14— - 15— | | 11- 15' SILTY SAND (SM): Moderate fine to medium sand. Groundwater first encountered at 12. brown | |
| | | | | | 16— 17— 18— 18— 19— 20 | | Total Depth of Borin | g= 16 feet bgs |

| IMPACT | ıme | nta | al | | | E | BORING LOG | Well No. | |
|--|-----------------|-----------------|---------------|--|----------------------------|------------------|-------------|---|---------------------------------------|
| Client: MRS. SI Project Number: Date(s) Drilled: Date(s) Installed: Drilling Co./Drilled Drilling Summary cores selected | : Direct push a | ENTAL and vibra | CON ate be | ITROI oring nd use | to 18 | feet bgs | s. Colle | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: ect continuous cores in butyrate liners for d caps to seal sample. Place sample in | |
| Sample No. | Sample | PID Reading | Recovery | Sampler | Odor | Depth (ft) | Graphic Log | LITHOLOGY | //REMARKS |
| CSB5-12 CSB5-15 CSB5-15 | | 0 0 0 0 0 0 0 | | | No No No No No No No No No | | FILL | 2- 18' SILTY SAND (SM): Dark yellow to medium sand. Trace plastic fines. -Perched groundwater zone at 5-6' b Groundwater first encountered at 13' b | wish brown; moist to very moist; fine |
| CSB5-18 | | | <u> </u> | <u> </u> | | 18— 19— 20 | | Total Depth of Borin | g= 18 feet bgs |

| IMPACT | MPACT Environmental | | | | | | | BORING LOG | Well No. N/A Sheet 1 of1_ |
|---|-------------------------------------|----------------|---------------|----------------|---------------|---|-------------|--|--------------------------------------|
| Client: MRS. SH Project Number: Date(s) Drilled: Date(s) Installed: Drilling Co./Drilled Drilling Summary cores selecte | 05/10/13 NA ENVIRONME Direct push a | ENTAL and vibr | CON rate b | ITROL oring | to 15 | feet bgs | s. Colle | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: ect continuous cores in butyrate liners for | |
| Sample No. | Sample Interval | PID Reading | Recovery | Sampler | Odor | Depth (ft) | Graphic Log | LITHOLOGY | /REMARKS |
| CSB6-5 CSB6-7 CSB6-10 | | 0 | | | No No Yes Yes | 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 12 - 12 - 12 - 12 - 12 | FILL | 0- 2' (FILL) BASEROCK 2- 18' SILTY SAND (SM): Dark yellow to medium sand. Trace plastic fines. -Perched groundwater zone at 5-7 -Hydrocarbon odor and color change. | " bgs |
| CSB6-13 | /\ | 5 | | | Yes | 12— 13— 14— 14— 15— 16— 17— 18— 19— 20 | | Sroundwater first encountered at 14' b | ngs. Color change to yellowish brown |

| IMPACT | Enviror | nmer | nta | ı | | E | BORING LOG | Boring No. |
|---|--------------------|-------------------|----------|-----------------|--|-------------|---|----------------------|
| Client: MRS. S Project Number Date(s) Drilled: Date(s) Installed Drilling Co./Drille Drilling Summar cores select | r: ENVIRONMI | ENTAL Cand vibrat | ONT | ROL AS | feet bgs | s. Colle | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: Final Borehole Diameter: ect continuous cores in butyrate liners for d caps to seal sample. Place sample in | |
| Sample No. | Sample Interval | PID Reading | Recovery | Sampler Odor | Depth (ft) | Graphic Log | LITHOLOGY | //REMARKS |
| CSB7- | | 0 | | No No | - 1- 2- 3- 4- 5- | FILL | 0- 2' (FILL) BASEROCK & BRICK 2- 18' SILTY SAND (SM): Dark yellor to medium sand; 15 & non-plastic fines -Perched groundwater zone at 5-6' by | . 0-5%plastic fines. |
| CSB7- | 7 | 0 | | No No No | 6- - - - - - - - - - - - - - - - - - - | | | |
| CSB7-1 | + $/$ | 0 | | No | 12 — 12 — 13 — 14 — 15 | | Groundwater first encountered at 13' | |
| | | | | | 16 — 17 — 18 — 19 — | | Total Depth of Boring | = 15 feet bgs |

| IMPACT | Enviror | nmer | - ntal | | | E | BORING LOG | Boring No. | | | | |
|---|--------------------|-------------|-----------|-----------------|-------------------------------|-------------|---|---------------------------------------|--|--|--|--|
| • | 05/10/13 | | ND, C | ;A | | | Ground Elevation: T.O.C. Elevation: Coordinates: Drilling Method: Borehole Total Depth: | Direct Push-EnviroCore | | | | |
| Drilling Co./Driller: ENVIRONMENTAL CONTROL ASSOCIATES Final Borehole Diameter: 2.5" Drilling Summary: Direct push and vibrate boring to 18 feet bgs. Collect continuous cores in butyrate liners for logging. Cut 1' length cores selected for laboratory analysis and use teflon liners and end caps to seal sample. Place sample in plastic zip-lock bag. Backfill soil boring using neat cement grout. | | | | | | | | | | | | |
| Sample No. | Sample Interval | PID Reading | Recovery | Sampler Odor | Depth (ft) | Graphic Log | LITHOLOGY | //REMARKS | | | | |
| | | 0 | 7 | No | 1- | FILL | 0- 2' (FILL) BASEROCK, BRICK & CO | NCRETE | | | | |
| | | 0 | | No | 2 — 3 — 4 — | | 2-18' SILTY SAND (SM): Dark yellow to medium sand. Trace plastic fines. | wish brown; moist to very moist; fine | | | | |
| CSB8-3 | 5, | 0 | | No | 5- 5- 6- | SM | -Perched groundwater zone at 5-6' b | gs | | | | |
| CSB8- | <u></u> | 0 | | No | 7- 8- | | | | | | | |
| CSB8-1 | 27 | 0 | | No | 9 — - 10 — - 11 — | | | | | | | |
| CSB8-1: | 2' | 0 | <u> </u> | No | 12 — 13 — | | | | | | | |
| CSB8-1: | 55 | 0 | | No | 14 — — 15 — | | Groundwater first encountered at 14' | ogs. | | | | |
| CSB8-1 | 3' | | | No | 16 — 17 — 18 — | | | | | | | |
| | | | | | 19 — 20 | | Total Depth of Boring | g= 18 feet bgs | | | | |

| | APPENDIX C |
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| | APPENDIX C |
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| Cart | ified Laboratory Analytical Reports |
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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 236194 ANALYTICAL REPORT

Impact Environmental Project: 1409-1417

39120 Argonaut Way Location: 1409-1417 12th St., Oakland

Fremont, CA 94538 Level : II

| Sample ID CSB1-5 CSB1-7 | <u>Lab ID</u> 236194-001 236194-002 | <u>Sample ID</u> CSB5-10 CSB5-7 | <u>Lab ID</u> 236194-024 236194-025 |
|-------------------------------|---|---------------------------------------|---|
| CSB1-10 | 236194-003 | CSB5-12 | 236194-026 |
| CSB1-12 | 236194-004 | CSB5-15 | 236194-027 |
| CSB1-12A | 236194-005 | CSB5-18 | 236194-028 |
| CSB1-15 | 236194-006 | CSB6-5 | 236194-029 |
| CSB1-18 | 236194-007 | CSB6-7 | 236194-030 |
| CSB2-5 | 236194-008 | CSB6-10 | 236194-031 |
| CSB2-7 | 236194-009 | CSB6-13 | 236194-032 |
| CSB2-10 | 236194-010 | CSB6-15 | 236194-033 |
| CSB3-5 | 236194-011 | CSB7-5 | 236194-034 |
| CSB3-7 | 236194-012 | CSB7-7 | 236194-035 |
| CSB3-10 | 236194-013 | CSB7-10 | 236194-036 |
| CSB3-12 | 236194-014 | CSB7-13 | 236194-037 |
| CSB3-15 | 236194-015 | CSB7-15 | 236194-038 |
| CSB3-18 | 236194-016 | CSB8-5 | 236194-039 |
| CSB4-5' | 236194-017 | CSB8-7 | 236194-040 |
| CSB4-10' | 236194-018 | CSB8-10 | 236194-041 |
| CSB4-7' | 236194-019 | CSB8-12 | 236194-042 |
| CSB4-13 | 236194-020 | CSB8-15 | 236194-043 |
| CSB4-12 | 236194-021 | CSB8-18 | 236194-044 |
| CSB4-15 | 236194-022 | CSB2-15 | 236194-045 |
| CSB5-5 | 236194-023 | CSB2-18 | 236194-046 |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

Date: <u>05/22/2012</u>



CASE NARRATIVE

Laboratory number: 236194

Client: Impact Environmental

Project: 1409-1417

Location: 1409-1417 12th St., Oakland

Request Date: 05/14/12 Samples Received: 05/14/12

This data package contains sample and QC results for forty six soil samples, requested for the above referenced project on 05/14/12. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Matrix spikes QC640094,QC640095 (batch 186629) were not reported because the concentration of the target analyte in the parent sample was more than four times the amount spiked, rendering the spike recovery not meaningful. Low recovery was observed for gasoline C7-C12 in the MSD of CSB6-13 (lab # 236194-032); the LCS was within limits. High recovery was also observed for gasoline C7-C12 in the MS of CSB6-13 (lab # 236194-032); the LCS was within limits. Response exceeding the instrument's linear range was observed for gasoline C7-C12 in the MS of CSB6-13 (lab # 236194-032); affected data was qualified with "b". High surrogate recoveries were observed for bromofluorobenzene (FID) in CSB6-10 (lab # 236194-031) and the MS of CSB6-13 (lab # 236194-032). No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

High recoveries were observed for diesel C10-C24 in the MS/MSD for batch 186635; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

CSB1-7 (lab # 236194-002) and CSB6-10 (lab # 236194-031) were diluted due to high hydrocarbons. No other analytical problems were encountered.

236194



483 Sinclair Frontage Road

Milpitas, CA 95935

hone: 408.263.5258 AX: 408.263.8293

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

| LAB | WORK | ORDE | R NO | |
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Env. H Food Special Location of Sampling: 1409 12th St., Oakland, CA Company Name: IMPACT ENVIRONMENTAL Address: 39120 ARGONAUT WAY, #223 Purpose: Site Closure Verification SOil Sampling Zip Code: 94538 Special Instructions / Comments: City: Oxnard State: Oxnard Telephone: 510-703-5420 FAX: EMAIL: jac21462@aol.com REPORT TO: Joseph Cotton SAMPLER: Joseph Cotton P.O. #: REPORT FORMAT: **TURNAROUND TIME: SAMPLE TYPE:** TPHd/TPHmo (Silica Gel Cleanup) Storm Water QC Level IV
DEDF 10 Work Days 4 Work Days 11 Work Day **ANALYSIS** Waste Water Ground Water Fuel Oxygenates REQUESTED ☐ Other 7 Work Days 3 Work Days Noon - Nxt Day Excel / EDD 5 Work Days 2 - 8 Hours Soil CANISTER #OF CONT DATE / TIME REMARKS LAB ID CLIENT'S SAMPLE I.D. **MATRIX** SAMPLED CONT **TYPE** I.D. CSB1-5 5-10-12 Soil 1 Liner **CSB1-7** 5-10-12 Soil 1 Liner CSB1-10 5-10-12 Soil 1 Liner CSB1-12 5-10-12 Soil 1 Liner CSB1-12A 5-10-12 1 Liner Soil CSB1-15 5-10-12 Liner Soil 1 CSB1-18 5-10-12 Liner Soil 1 **CSB2-5** 5-10-12 Liner Soil 1 CSB2-7 5-10-12 Soil 1 Liner CSB2-10 5-10-12 Soil 1 Liner Print: Date: Date: Print: Received By: Relinquished Date: Date: Received By:~ Relinguished Samples on Ice? Yes NO Method of Shipment Sample seals intact? Yes NO N/A Were Samples Received in Good Condition? Yes NO are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. NOTE: Samples Rev. 1 Log In Reviewed By: Date: ____



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293 www.torrentlah.com



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| LAB | WORK | ORDEF | R NO |
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| Company Name: IMPACT ENVIRONMENTAL Second Second Coation of Sampling: 1409 12th Street, Oakland, CA |
|--|
| City: CA |
| Telephone: 510-703-5420 REPORT TO: JOSEPH COTTON SAMPLER: JOSEPH COTTON P.O. #: EMAIL: JAC21462@AOL.COM TURNAROUND TIME: 10 Work Days |
| REPORT TO: JOSEPH COTTON SAMPLER: JOSEPH COTTON P.O. #: EMAIL: JAC21462@AOL.COM TURNAROUND TIME: 10 Work Days 4 Work Days 3 Work Days Noon - Nxt Day Waste Water Ground Water Other Excel / EDD 5 Work Days 2 Work Days 2 - 8 Hours Soil LINER X X X C583-10 C583-12 C583-15 X X X X X C583-15 C583-15 X X X X C583-15 C583-15 X X X X C583-15 C583-15 X X X X C583-15 C5 |
| TURNAROUND TIME: 10 Work Days 4 Work Days 1 Work Day Storm Water Air OC Level IV EDF Count Water Ground Water Ground Water Cont Type Cont |
| 10 Work Days |
| 7 Work Days 3 Work Days Noon - Nxt Day Ground Water Other |
| C5R3-10 C5B3-12 C5B3-15 C5B3 |
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| C5B3-15)) X X X |
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| C5B3-18) ((/ X X X) |
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| (5B4-51 () (X X X) |
| C534-101) () X X X |
| C534-7' / XXX |
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| Received By: Print: Date: Time: Print: Date: Time: 9:20 Received By: Print: Date: 7:20 Print: Date: 7:20 Print: 9:20 Print: 7:20 Print: 7: |
| Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment Sample seals intact? Yes NO NO. |
| NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp°C Page of Log In Reviewed By: Date: Date: Page Rev. |



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293



CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO

| | MPACT ENVIRO | NMENTAL | | Бav. □ I | н | Food S | Special Loca | tion of Samp | ing: 1409 | 12th Street, | Oaklan | d, CA |
|--------------------------|--|-------------------------------------|----------------------------|--------------|---------------------|----------|--------------|----------------|-----------|--------------|--------|-----------------------|
| Address: 39120 Al | RGONAUT WAY, #22 | 3 | | | | Purpose | SITE CI | OSURE VE | RIFICAT | TION SAME | LING | |
| City: CA | | State: CA | Zip Code: 94 | 538 | | Special | Instructions | / Comments | | | | |
| Telephone: 510-70 | 3-5420 | FAX: | | | | | | | | | | |
| REPORT TO: JOSE | PH COTTON | SAMPLER: JOSEPH | COTTON | | } | P.O. #: | | EMAIL: J | AC214 | 62@AOI | COM | 1 |
| TURNAROUND TIME | : : | SAMPLE TYPE: | REPORT | FORMAT: | $ \dot{\xi} $ | ! | D'A | | | | | |
| 7 Work Days | 4 Work Days 1 Work Days 3 Work Days Noon - Nxt 2 Work Days 2 - 8 Hours | Day Waste Water Ground Water | Air QC Le Other DEDF Excel | /EDD | THE LEFT | ATIBE | 20 7 | | | | | ANALYSIS REQUESTED |
| LAB ID CANISTER I.D. | CLIENT'S SAMPLE I.D | DATE / TIME SAMPLED M/ | ATRIX # OF CONT | CONT TYPE | 臣 | 2 | Û | | | | | REMARKS |
| | CSB4-12 | 5-10-12 s | OIL 1 | LINER | 人 | X | 人 | | | | _ | |
| | CSB4-15 | | $\supset \supset$ | | メ | X | X | | | | | |
| | 0535-5 | | | | 人 | 人 | X | | | | | |
| | C585-10 | | | | <u> </u> | X | 人 | | | | | |
| | C5B5-7 | | | | X | X | X | | | | | • |
| | C5B5-12 | | | | X | X | 人 | | | | _ | |
| | C505-15 | | | | <u> </u> | X | X | | | | | |
| | C5B5-18 | | | | X | X | メ | | | | | |
| | C586-5 | | 7 \ | | <u>X</u> | X | X | | | | | |
| | CSB6-7 | (| | l | <u> </u> | X | X | | | | | |
| Relinquished By: | Print: | Date: | Time: | Pri | | ved By: | Mary | Print: Print: | m | Date: | 113 | Time: |
| | and the Mallan | 12/4/6 | 0 92 | CPT | 7 | (65) | 125\s | =1 | | glatio | | 13.30 Va |
| | ved in Good Condition? | | les on Ice? | _ | | | nent | | | . 00 | | Yes NO |
| NOTE: Samples Log In By: | are discarded by the labor | atory 30 days from date of Date: | Log In Rev | • | nts are | made. | | Date: | mp | °C F | age | of F |



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293



| | LAB | WORK | ORDER | NO |
|---|-----|------|-------|----|
| | | | | |
| 1 | | | | |

www.torrentlab.com Env. III Food Special Location of Sampling: 1409 12th Street, Oakland, CA Company Name: IMPACT ENVIRONMENTAL Purpose: SITE CLOSURE VERIFICATION SAMPLING Address: 39120 ARGONAUT WAY, #223 Citv: CA State: CA Zip Code: 94538 Special Instructions / Comments: Telephone: 510-703-5420 FAX: EMAIL: JAC21462@AOL.COM SAMPLER: JOSEPH COTTON REPORT TO: JOSEPH COTTON P.O. #: REPORT FORMAT: TURNAROUND TIME: SAMPLE TYPE: QC Level IV 10 Work Days 4 Work Days 1 1 Work Day Storm Water Air **ANALYSIS** Waste Water
Ground Water REQUESTED **I** EDF ☐ Other 7 Work Days 3 Work Days Noon - Nxt Day Excel / EDD Soil 5 Work Days 2 Work Days 2 - 8 Hours CANISTER DATE / TIME #OF CONT LAB ID CLIENT'S SAMPLE I.D. MATRIX REMARKS SAMPLED CONT **TYPE** SOIL LINER CSBG-10 csB6-13 G536-15 36 37 38 Relinguished by: Print: JOSEPH COTTON Were Samples Received in Good Candition? Yes NO Sample seals intakt2 Samples on Ice? Yes NO Method of Shipment NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page Rev. 1 Date: Log In Reviewed By: ___

35



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

CHAIN OF CUSTODY

| Γ | LAB WORK ORDER NO | | | | |
|---|-------------------|--|--|--|--|
| Г | | | | | |
| | | | | | |
| | | | | | |

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY • www.torrentlab.com Env. | IH | Food | Special | Location of Sampling: 1409 12th Street, Oakland, CA Company Name: IMPACT ENVIRONMENTAL Address: 39120 ARGONAUT WAY, #223 Purpose: SITE CLOSURE VERIFICATION SAMPLING State: CA Zip Code: 94538 City: CA Special Instructions / Comments: Telephone: 510-703-5420 FAX: EMAIL: JAC21462@AOL.COM SAMPLER: JOSEPH COTTON REPORT TO: JOSEPH COTTON P.O. #: REPORT FORMAT: **TURNAROUND TIME:** SAMPLE TYPE: Storm Water QC Level IV
DEDF 10 Work Days 4 Work Days 1 1 Work Day Air **ANALYSIS** Waste Water
Ground Water Other REQUESTED 7 Work Days 3 Work Days Noon - Nxt Day Excel / EDD 5 Work Days 2 Work Days 2 - 8 Hours Soil CANISTER DATE / TIME #OF CONT LAB ID CLIENT'S SAMPLE I.D. MATRIX REMARKS SAMPLED CONT **TYPE** LINER SOIL CSB3-10|5-10-12 CSB8-15 Date: Wall Received By: , Print: Time: Date: Received By Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes Sample seals intact? Yes NO NO N/A NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp Log In By: _____ Rev. 1

Log In Reviewed By:

Date:



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258

CHAIN OF CUSTODY

| LAB WORK ORDER NO | | |
|-------------------|--|--|
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| | | |

Rev. 1

FAX: 408.263.8293 • NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY • www.torrentlab.com Env. H Food Special Location of Sampling: 1409 12th St., Oakland, CA Company Name: IMPACT ENVIRONMENTAL Purpose: Site Closure Verification Soil Sampling Address: 39120 ARGONAUT WAY, #223 Zip Code: 94538 Special Instructions / Comments: City: CA State: CA Telephone: 510-703-5420 FAX: EMAIL: jac21462@aol.com SAMPLER: Joseph Cotton P.O. #: REPORT TO: Joseph Cotton SAMPLE TYPE: REPORT FORMAT: **TURNAROUND TIME:** TPHd/TPHmo (Silica Gell Cleanup) Storm Water
Waste Water QC Level IV **ANALYSIS** 10 Work Days 4 Work Days 1 1 Work Day REQUESTED ☐ EDF ☐ Other 7 Work Days 3 Work Days Noon - Nxt Day Ground Water Excel / EDD Soil 5 Work Days 2 2 Work Days 2 - 8 Hours CANISTER DATE / TIME #OF CONT REMARKS CLIENT'S SAMPLE I.D. LAB ID **MATRIX** SAMPLED TYPE CONT CSB2-15 5-10-12 Soil 1 Liner CSB2-18 5-10-12 Liner Soil 1 Received By: Time: Print: Print: Joseph Cotton Received By: Sample seals intact? Yes NO N/A Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment NOTE: Samples are disearded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In Reviewed By:

Date:

Log In By: _____

COOLER RECEIPT CHECKLIST



| Login # 236 94 Date Received 51412 Number of coordinate 1997 Date Received 1997 Date Rece | |
|--|--|
| Date Opened 5 H/2 By (print) 1-CHO (sign) | Longe of |
| Date Logged in By (print) (sign) | |
| 1. Did cooler come with a shipping slip (airbill, etc)Y Shipping info | ES NO |
| 2A. Were custody seals present? YES (circle) on cooler on samples Name Date | |
| A 777 | ES NO (N/A) |
| 3. Were custody papers dry and intact when received? Y 4. Were custody papers filled out properly (ink, signed, etc)? Y | < |
| 5. Is the project identifiable from custody papers? (If so fill out top of form) (If 6. Indicate the packing in cooler: (if other, describe) | < |
| ☐ Bubble Wrap ☐ Foam blocks ☐ Bags None ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper 7. Temperature documentation: * Notify PM if temperature exceeds 6°C | |
| Type of ice used: ✓ Wet ☐ Blue/Gel ☐ None Temp(°C) | |
| Samples Received on ice & cold without a temperature blank; temp. take | en with IR oun |
| ☐ Samples received on ice directly from the field. Cooling process had beg | |
| 8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer? | |
| 125, what time were they transferred to freezer? | _YES (NO) |
| 9. Did all bottles arrive unbroken/unopened? | (ES) NO |
| 9. Did all bottles arrive unbroken/unopened? | VES NO YES NO |
| 9. Did all bottles arrive unbroken/unopened? | (ES) NO YES (NO |
| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? | YES NO YES NO YES NO |
| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? | YES NO YES NO YES NO YES NO |
| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? YES | YES NO YES NO YES NO YES NO YES NO YES NO |
| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? YES | ES NO YES ADO YES NO N |
| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? | ES NO YES NO YES NO YES NO YES NO YES NO NO YES NO N |
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| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? 18. Did you change the hold time in LIMS for unpreserved VOAs? 19. Did you change the hold time in LIMS for preserved terracores? 20. Are bubbles > 6mm absent in VOA samples? 21. Was the client contacted concerning this sample delivery? If YES, Who was called? 22. Date: 13. Dotter and complete? 14. Was sufficient amount of sample sent for tests requested? 25. YES 26. Did you change the hold time in LIMS for preserved terracores? 26. Are bubbles > 6mm absent in VOA samples? 27. YES 28. Did you change the hold time in LIMS for preserved terracores? 28. Did you change the hold time in LIMS for preserved terracores? 29. YES 20. Are bubbles > 6mm absent in VOA samples? 21. Was the client contacted concerning this sample delivery? 22. If YES, Who was called? 23. YES 24. YES 25. YES 26. YES 27. YES 27. YES 28. Did you bubbles 29. Did you bubbles 20. Are bubbles 20. Are bubbles 21. Was the client contacted concerning this sample delivery? 22. If YES, Who was called? 23. YES 24. YES 25. YES 26. YES 27. Did you bubbles 26. Did you bubbles 27. Did you bubbles 28. Did you bubbles 29. Did you bubbles 20. Are bubbles 20. Are bubbles 20. Are bubbles 20. Did you bubbles 21. Was the client contacted concerning this sample delivery? 22. Did you bubbles 23. Did you bubbles 24. Did you bubbles 25. Did you bubbles 26. Did you bubbles 27. Did you bubbles 28. Did you bubbles 28. Did you bubbles 29. Did you bubbles 29. Did you bubbles 20. Did you bubbles 20. Did you bubbles 20. Did you bubble | ES NO YES NO N |
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| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? 18. Did you change the hold time in LIMS for unpreserved VOAs? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 20. Are bubbles > 6mm absent in VOA samples? 21. Was the client contacted concerning this sample delivery? 22. If YES, Who was called? 23. Was the client contacted concerning this sample delivery? 24. If YES, Who was called? 25. DAT (whather cuent be samples were summerated in her papers.) 26. DAT (whather cuent be samples were summerated in her papers.) | ES NO YES NO YES NO YES NO YES NO YES NO YES NO N |
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| 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? 18. Did you change the hold time in LIMS for unpreserved VOAs? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 20. Are bubbles > 6mm absent in VOA samples? 21. Was the client contacted concerning this sample delivery? 22. If YES, Who was called? 23. Was the client contacted concerning this sample delivery? 24. If YES, Who was called? 25. The transfer were preserved in had upon amount. 26. COMMENTS 27. Date: COMMENTS 28. Did you document your preserved were supported in had upon amount. 29. Date: COMMENTS 20. Date: COMMENTS 20. Date: COMMENTS 21. Was did samples were supported in had upon amount. Cuent wants analyse the supported in had upon amount. Cuent wants analyse the supported in had upon amount. | ES NO YES NO N |
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Rev 10, 11/11



Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland EPA 5030B Impact Environmental Client: Prep: Project#: 1409-1417 Analysis: EPA 8015B 05/10/12 Matrix: Soil Sampled: 05/14/12 Units: mg/Kg Received: Basis: as received

Field ID: CSB1-5 Diln Fac: 1.000
Type: SAMPLE Batch#: 186587
Lab ID: 236194-001 Analyzed: 05/15/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 ND
 0.98

Surrogate %REC Limits
Bromofluorobenzene (FID) 93 61-136

Field ID: CSB1-7 Diln Fac: 1,000 Type: SAMPLE Batch#: 186629 Lab ID: 236194-002 Analyzed: 05/17/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 1,900
 200

Surrogate %REC Limits
Bromofluorobenzene (FID) 102 61-136

Field ID: CSB1-10 Diln Fac: 1,000 Type: SAMPLE Batch#: 186629 Lab ID: 236194-003 Analyzed: 05/17/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 3,300
 200

Surrogate %REC Limits
Bromofluorobenzene (FID) 106 61-136

Field ID: CSB1-12 Diln Fac: 1,000 Type: SAMPLE Batch#: 186629 Lab ID: 236194-004 Analyzed: 05/17/12

AnalyteResultRLGasoline C7-C122,600200

Surrogate %REC Limits
Bromofluorobenzene (FID) 102 61-136

Page 1 of 13

^{*=} Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit



Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB1-12A Diln Fac: 62.50 Type: SAMPLE Batch#: 186629 Lab ID: 236194-005 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 55 13

Surrogate%RECLimitsBromofluorobenzene (FID)9861-136

Field ID: CSB1-15 Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-006 Analyzed: 05/15/12

AnalyteResultRLGasoline C7-C12ND0.99

Surrogate %REC Limits
Bromofluorobenzene (FID) 92 61-136

Field ID: CSB1-18 Diln Fac: 1.000
Type: SAMPLE Batch#: 186587
Lab ID: 236194-007 Analyzed: 05/15/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 ND
 0.95

Surrogate %REC Limits
Bromofluorobenzene (FID) 84 61-136

Field ID: CSB2-5 Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-008 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 1.1

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

Page 2 of 13



Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12

Field ID: CSB2-7 Diln Fac: 1.000
Type: SAMPLE Batch#: 186626
Lab ID: 236194-009 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 1.1

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

as received

Field ID: CSB2-10 Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-010 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 0.96

Surrogate %REC Limits
Bromofluorobenzene (FID) 89 61-136

Field ID: CSB3-5 Diln Fac: 1.000
Type: SAMPLE Batch#: 186587
Lab ID: 236194-011 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 0.95

Surrogate %REC Limits
Bromofluorobenzene (FID) 89 61-136

Field ID: CSB3-7 Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-012 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 92 61-136

ND= Not Detected

RL= Reporting Limit

Page 3 of 13

Basis:

^{*=} Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard



Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12

Field ID: CSB3-10 Type: SAMPLE Lab ID: 236194-013

Basis:

Diln Fac: 1.000 Batch#: 186587 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 0.95

Surrogate %REC Limits
Bromofluorobenzene (FID) 88 61-136

as received

Field ID: CSB3-12 Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-014 Analyzed: 05/16/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 13 Y
 0.99

Surrogate%RECLimitsBromofluorobenzene (FID)10761-136

Field ID: CSB3-15 Diln Fac: 1.000
Type: SAMPLE Batch#: 186587
Lab ID: 236194-015 Analyzed: 05/16/12

AnalyteResultRLGasoline C7-C12ND0.98

Surrogate %REC Limits
Bromofluorobenzene (FID) 84 61-136

Field ID: CSB3-18 Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-016 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 0.92

Surrogate %REC Limits
Bromofluorobenzene (FID) 83 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

Page 4 of 13



Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12

Field ID: CSB4-5'
Type: SAMPLE
Lab ID: 236194-017

Basis:

Diln Fac: 1.000 Batch#: 186587 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 91 61-136

as received

Field ID: CSB4-10' Diln Fac: 1.000 Type: SAMPLE Batch#: 186587 Lab ID: 236194-018 Analyzed: 05/16/12

AnalyteResultRLGasoline C7-C12ND0.94

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

Field ID: CSB4-7' Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-019 Analyzed: 05/16/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 ND
 0.94

Surrogate %REC Limits
Bromofluorobenzene (FID) 105 61-136

Field ID: CSB4-13 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-020 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 0.96

Surrogate %REC Limits
Bromofluorobenzene (FID) 108 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB4-12 Type: SAMPLE Lab ID: 236194-021

Diln Fac: 1.000 Batch#: 186626 Analyzed: 05/16/12

Analyte Result RL
Gasoline C7-C12 ND 0.97

Surrogate %REC Limits
Bromofluorobenzene (FID) 96 61-136

Field ID: CSB4-15 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-022 Analyzed: 05/17/12

AnalyteResultRLGasoline C7-C12ND0.96

Surrogate %REC Limits
Bromofluorobenzene (FID) 102 61-136

Field ID: CSB5-5 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-023 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 110 61-136

Field ID: CSB5-10 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-024 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 1.1

Surrogate%RECLimitsBromofluorobenzene (FID)10561-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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1.000

186626 05/17/12

Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB5-7 Diln Fac: Type: SAMPLE Batch#: Lab ID: 236194-025 Analyzed:

Analyte Result RL
Gasoline C7-C12 ND 0.93

Surrogate %REC Limits

Bromofluorobenzene (FID) 97 61-136

Field ID: CSB5-12 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-026 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 0.93

Surrogate %REC Limits
Bromofluorobenzene (FID) 103 61-136

Field ID: CSB5-15 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-027 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 0.94

Surrogate %REC Limits
Bromofluorobenzene (FID) 97 61-136

Field ID: CSB5-18 Diln Fac: 1.000 Type: SAMPLE Batch#: 186626 Lab ID: 236194-028 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 0.99

Surrogate %REC Limits
Bromofluorobenzene (FID) 107 61-136

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^{*=} Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit



Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

 Field ID:
 CSB6-5
 Diln Fac:
 1.000

 Type:
 SAMPLE
 Batch#:
 186626

 Lab ID:
 236194-029
 Analyzed:
 05/17/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 ND
 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 107 61-136

Field ID: CSB6-7 Diln Fac: 1.000 Type: SAMPLE Batch#: 186629 Lab ID: 236194-030 Analyzed: 05/16/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 ND
 0.99

Surrogate %REC Limits
Bromofluorobenzene (FID) 83 61-136

Field ID: CSB6-10 Diln Fac: 1,250 Type: SAMPLE Batch#: 186687 Lab ID: 236194-031 Analyzed: 05/18/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 10,000 Y
 250

Surrogate %REC Limits
Bromofluorobenzene (FID) 155 * 61-136

Field ID: CSB6-13 Diln Fac: 1.000 Type: SAMPLE Batch#: 186687 Lab ID: 236194-032 Analyzed: 05/17/12

 Analyte
 Result
 RL

 Gasoline C7-C12
 12 Y
 0.98

Surrogate %REC Limits
Bromofluorobenzene (FID) 108 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: Impact Environmental EPA 5030B Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB6-15 Type: SAMPLE Lab ID: 236194-033

Diln Fac: 1.000 Batch#: 186629 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 92 61-136

Field ID: CSB7-5 Diln Fac: 1.000
Type: SAMPLE Batch#: 186629
Lab ID: 236194-034 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 0.94

Surrogate %REC Limits
Bromofluorobenzene (FID) 91 61-136

Field ID: CSB7-7 Diln Fac: 1.000 Type: SAMPLE Batch#: 186629

Lab ID: 236194-035 Analyzed: 05/17/12

AnalyteResultRLGasoline C7-C12ND0.98

Surrogate %REC Limits
Bromofluorobenzene (FID) 87 61-136

Field ID: CSB7-10 Diln Fac: 1.000 Type: SAMPLE Batch#: 186629 Lab ID: 236194-036 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 0.93

Surrogate %REC Limits
Bromofluorobenzene (FID) 89 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 5030B Impact Environmental Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB7-13 Type: SAMPLE Lab ID: 236194-037

Diln Fac: 1.000 Batch#: 186629 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 92 61-136

Field ID: CSB7-15 Diln Fac: 1.000
Type: SAMPLE Batch#: 186687
Lab ID: 236194-038 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 0.95

Surrogate%RECLimitsBromofluorobenzene (FID)9161-136

Field ID: CSB8-5 Diln Fac: 1.000 Type: SAMPLE Batch#: 186687 Lab ID: 236194-039 Analyzed: 05/17/12

AnalyteResultRLGasoline C7-C12ND0.97

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

Field ID: CSB8-7 Diln Fac: 1.000 Type: SAMPLE Batch#: 186687 Lab ID: 236194-040 Analyzed: 05/17/12

Analyte Result RL
Gasoline C7-C12 ND 1.1

Surrogate %REC Limits
Bromofluorobenzene (FID) 89 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 5030B Impact Environmental Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB8-10 Type: SAMPLE Lab ID: 236194-041

Diln Fac: 1.000 Batch#: 186687 Analyzed: 05/18/12

Analyte Result RL
Gasoline C7-C12 ND 0.98

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

Field ID: CSB8-12 Diln Fac: 1.000 Type: SAMPLE Batch#: 186687 Lab ID: 236194-042 Analyzed: 05/18/12

AnalyteResultRLGasoline C7-C12ND0.93

Surrogate %REC Limits
Bromofluorobenzene (FID) 91 61-136

Field ID: CSB8-15 Diln Fac: 1.000
Type: SAMPLE Batch#: 186687
Lab ID: 236194-043 Analyzed: 05/18/12

AnalyteResultRLGasoline C7-C12ND0.95

Surrogate %REC Limits
Bromofluorobenzene (FID) 91 61-136

Field ID: CSB8-18 Diln Fac: 1.000 Type: SAMPLE Batch#: 186687 Lab ID: 236194-044 Analyzed: 05/18/12

Analyte Result RL
Gasoline C7-C12 ND 0.93

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Volatile Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 5030B Impact Environmental Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB2-15 Diln Fac: 1.000
Type: SAMPLE Batch#: 186687
Lab ID: 236194-045 Analyzed: 05/18/12

Analyte Result RL
Gasoline C7-C12 ND 1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

Field ID: CSB2-18 Diln Fac: 1.000 Type: SAMPLE Batch#: 186687 Lab ID: 236194-046 Analyzed: 05/18/12

Analyte Result RL
Gasoline C7-C12 ND 0.93

Surrogate %REC Limits
Bromofluorobenzene (FID) 92 61-136

Type: BLANK Batch#: 186587 Lab ID: QC639879 Analyzed: 05/15/12

Diln Fac: 1.000

AnalyteResultRLGasoline C7-C12ND1.0

Surrogate %REC Limits
Bromofluorobenzene (FID) 89 61-136

Type: BLANK Batch#: 186626 Lab ID: QC640052 Analyzed: 05/16/12

Diln Fac: 1.000

Analyte Result RL
Gasoline C7-C12 ND 0.20

Surrogate %REC Limits
Bromofluorobenzene (FID) 93 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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Total Volatile Hydrocarbons 1409-1417 12th St., Oakland 236194 Lab #: Location: EPA 5030B Client: Impact Environmental Prep: Analysis: Sampled: EPA 8015B 05/10/12 Project#: 1409-1417 Soil Matrix: Units: mg/Kg Received: 05/14/12 Basis: as received

Type: BLANK Batch#: 186629 Lab ID: QC640070 Analyzed: 05/16/12

Diln Fac: 1.000

AnalyteResultRLGasoline C7-C12ND0.20

Surrogate %REC Limits
Bromofluorobenzene (FID) 90 61-136

Type: BLANK Batch#: 186687 Lab ID: QC640300 Analyzed: 05/17/12

Diln Fac: 1.000

Analyte Result RL
Gasoline C7-C12 ND 0.20

Surrogate %REC Limits
Bromofluorobenzene (FID) 94 61-136

*= Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

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| Total Volatile Hydrocarbons | | | | | |
|-----------------------------|----------------------|-----------|-----------------------------|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | |
| Type: | LCS | Diln Fac: | 1.000 | | |
| Lab ID: | QC639878 | Batch#: | 186587 | | |
| Matrix: | Soil | Analyzed: | 05/15/12 | | |
| Units: | mg/Kg | | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1.000 | 0.9437 | 94 | 79-120 |

| Surrogate %REC | Limits |
|-----------------------------|--------|
| Bromofluorobenzene (FID) 91 | 61-136 |

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| Total Volatile Hydrocarbons | | | | | |
|-----------------------------|----------------------|-----------|-----------------------------|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | |
| Field ID: | CSB1-5 | Diln Fac: | 1.000 | | |
| MSS Lab ID: | 236194-001 | Batch#: | 186587 | | |
| Matrix: | Soil | Sampled: | 05/10/12 | | |
| Units: | mg/Kg | Received: | 05/14/12 | | |
| Basis: | as received | Analyzed: | 05/15/12 | | |

Type: MS Lab ID: QC639880

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | <0.06286 | 10.42 | 8.982 | 86 | 31-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 98 | 61-136 |

Type: MSD Lab ID: QC639881

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 10.20 | 6.018 | 59 | 31-120 | 38 | 57 |



| Total Volatile Hydrocarbons | | | | | |
|-----------------------------|----------------------|-----------|-----------------------------|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | |
| Type: | LCS | Diln Fac: | 1.000 | | |
| Lab ID: | QC640051 | Batch#: | 186626 | | |
| Matrix: | Soil | Analyzed: | 05/16/12 | | |
| Units: | mg/Kg | | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1.000 | 1.053 | 105 | 79-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 100 | 61-136 |

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| | Total Volatile Hydrocarbons | | | | | | |
|-------------|-----------------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | | | |
| Field ID: | CSB2-7 | Diln Fac: | 1.000 | | | | |
| MSS Lab ID: | 236194-009 | Batch#: | 186626 | | | | |
| Matrix: | Soil | Sampled: | 05/10/12 | | | | |
| Units: | mg/Kg | Received: | 05/14/12 | | | | |
| Basis: | as received | Analyzed: | 05/16/12 | | | | |

Type: MS

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 0.07808 | 10.64 | 9.818 | 92 | 31-120 |

Lab ID: QC640053

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 99 | 61-136 |

Type: MSD Lab ID: QC640054

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 9.615 | 8.257 | 85 | 31-120 | 7 | 57 |



| | Total Vola | tile Hydrocarbo | ons |
|-----------|----------------------|-----------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC640069 | Batch#: | 186629 |
| Matrix: | Soil | Analyzed: | 05/16/12 |
| Units: | mg/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1.000 | 1.107 | 111 | 79-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 92 | 61-136 |

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| Total Volatile Hydrocarbons | | | | | | |
|-----------------------------|----------------------|-----------|-----------------------------|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | | |
| Type: | LCS | Diln Fac: | 1.000 | | | |
| Lab ID: | QC640299 | Batch#: | 186687 | | | |
| Matrix: | Soil | Analyzed: | 05/17/12 | | | |
| Units: | mg/Kg | | | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1.000 | 1.040 | 104 | 79-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 94 | 61-136 |

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| Total Volatile Hydrocarbons | | | | |
|-----------------------------|----------------------|-----------|-----------------------------|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | |
| Client: | Impact Environmental | Prep: | EPA 5030B | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | |
| Field ID: | CSB6-13 | Diln Fac: | 1.000 | |
| MSS Lab ID: | 236194-032 | Batch#: | 186687 | |
| Matrix: | Soil | Sampled: | 05/10/12 | |
| Units: | mg/Kg | Received: | 05/14/12 | |
| Basis: | as received | Analyzed: | 05/17/12 | |

Type: MS Lab ID: QC640328

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|-----------|---------|--------|
| Gasoline C7-C12 | 12.18 | 9.709 | 72.24 >LR | b 619 * | 31-120 |

| Surrogate %REC | Limits |
|--------------------------------|--------|
| Bromofluorobenzene (FID) 137 * | 61-136 |

Type: MSD Lab ID: QC640329

| Analyte | Spiked | Result | %REC | Limits | RPD Lim |
|-----------------|--------|--------|-------|--------|---------|
| Gasoline C7-C12 | 9.901 | 9.604 | -26 * | 31-120 | NC 57 |

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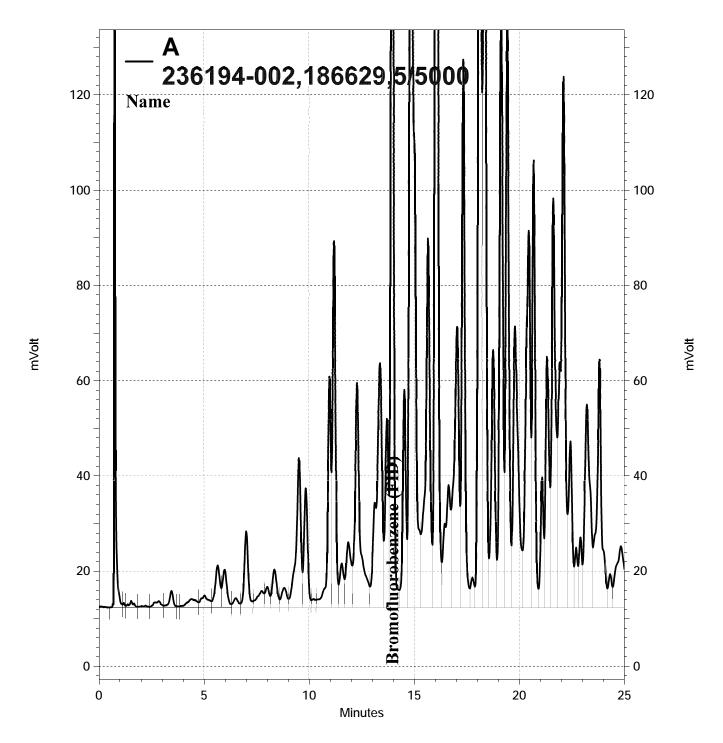
^{*=} Value outside of QC limits; see narrative

b= See narrative

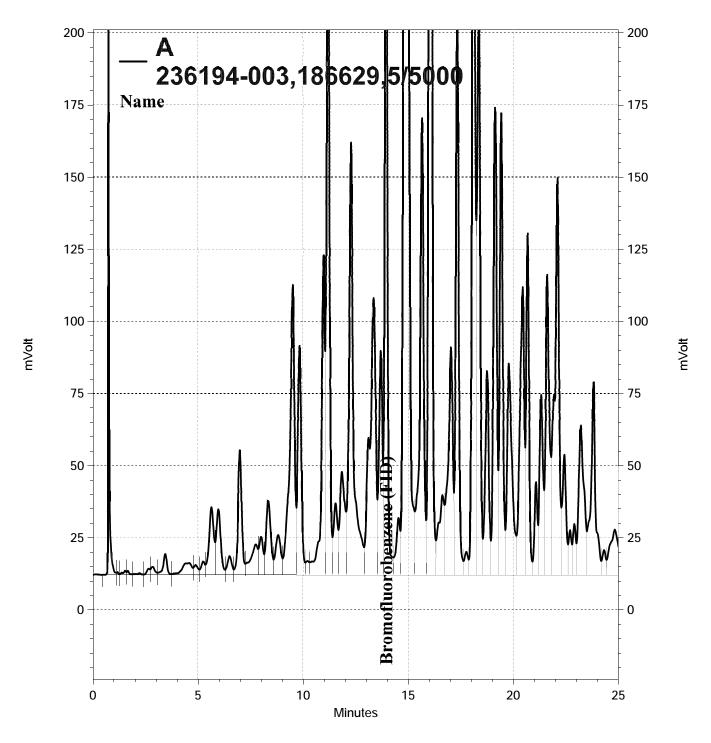
NC= Not Calculated

>LR= Response exceeds instrument's linear range

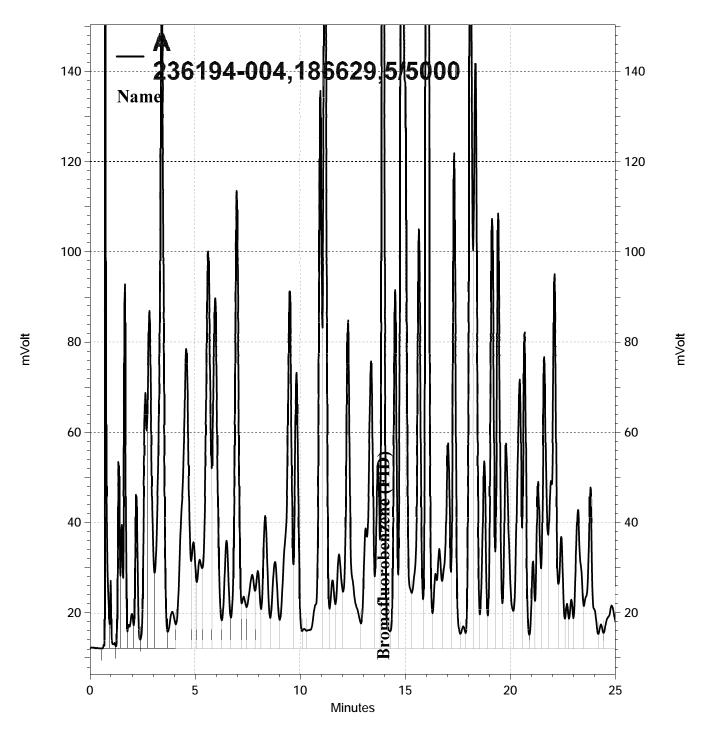
RPD= Relative Percent Difference



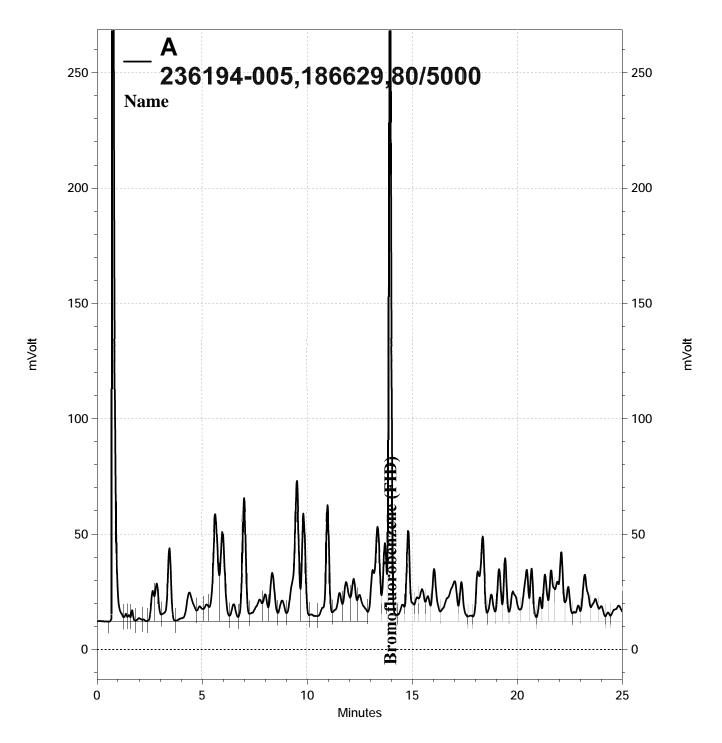
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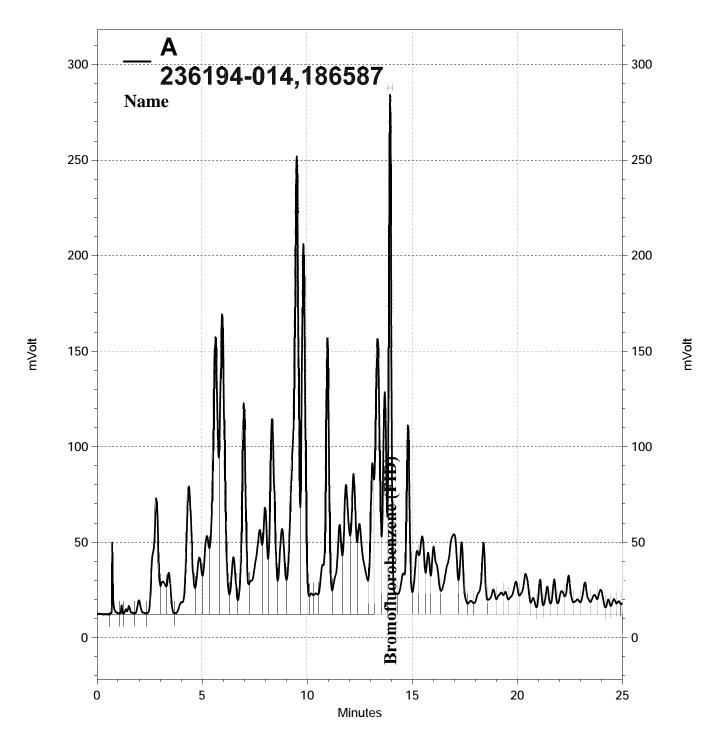
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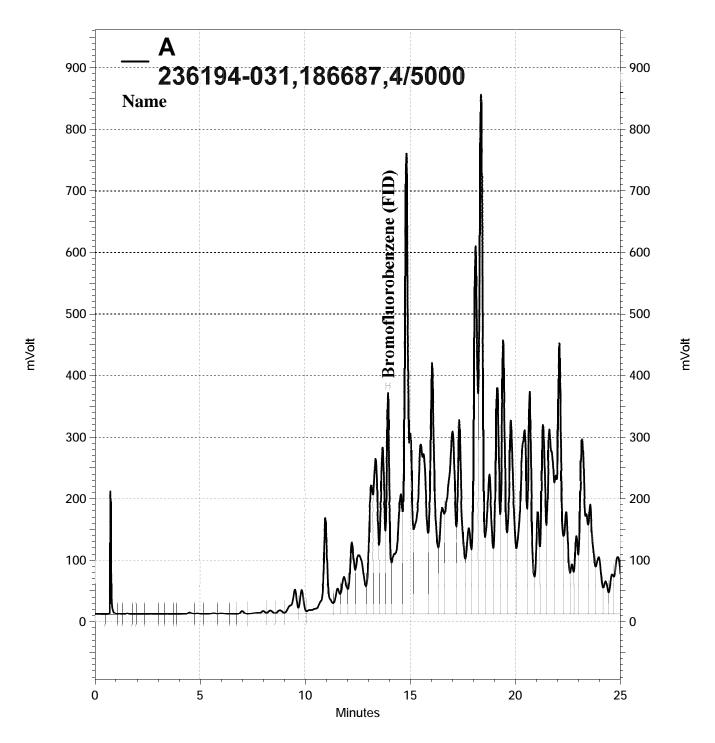
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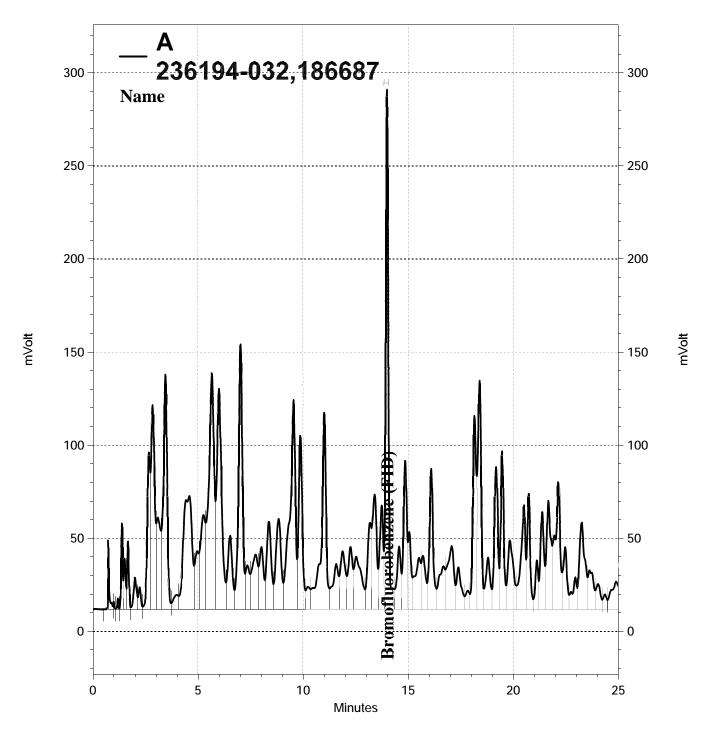
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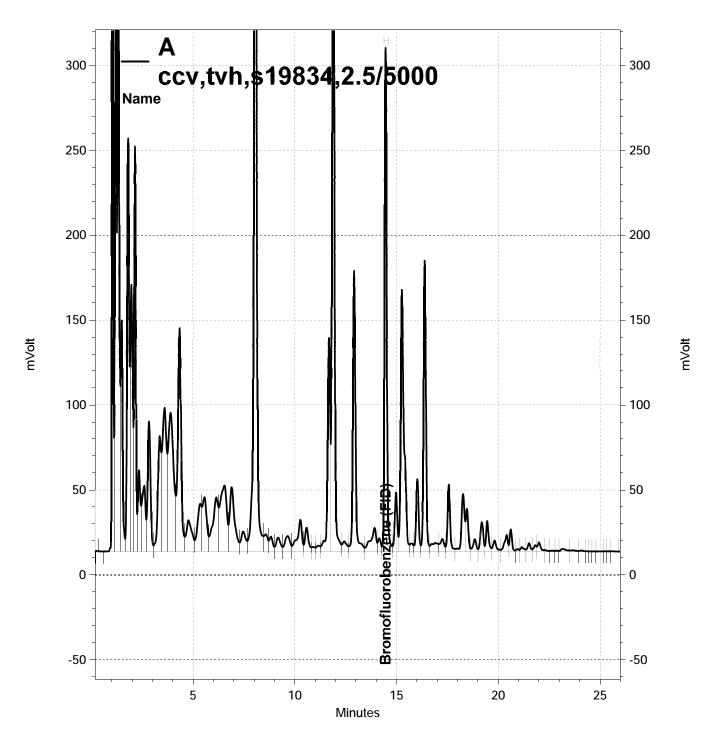
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\Lims\gdrive\ezchrom\Projects\GC05\Data\138-025, A



\Lims\gdrive\ezchrom\Projects\GC05\Data\138-009, A



\Lims\gdrive\ezchrom\Projects\GC04\Data\137-002, A



Total Extractable Hydrocarbons 1409-1417 12th St., Oakland Lab #: 236194 Location: EPA 3550B Client: Impact Environmental Prep: Project#: 1409-1417 Analysis: EPA 8015B Matrix: Soil Sampled: 05/10/12 Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB1-5 Batch#: 186635 Type: SAMPLE Prepared: 05/16/12 05/17/12 Lab ID: 236194-001 Analyzed: Cleanup Method: Diln Fac: 1.000 EPA 3630C

Analyte Result Diesel C10-C24 ND 1.0 Motor Oil C24-C36 5.0 ND

Surrogate %REC Limits o-Terphenyl 111 49-128

Field ID: CSB1-7 Batch#: 186635 Type: SAMPLE Prepared: 05/16/12 05/17/12 Lab ID: 236194-002 Analyzed: 1.000 Diln Fac: Cleanup Method: EPA 3630C

Analyte Result RLDiesel C10-C24 180 Y 1.0 Motor Oil C24-C36 ND 5.0

Surrogate %REC Limits 97 o-Terphenyl

Field ID: CSB1-10 Batch#: 186635 05/16/12 Type: SAMPLE Prepared: Lab ID: 236194-003 Analyzed: 05/17/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

Result Analyte Diesel C10-C24 550 Y 1.0 Motor Oil C24-C36 ND 5.0

Surrogate %REC Limits o-<u>Te</u>rphenyl 103

Field ID: CSB1-12 Batch#: 186635 Type: SAMPLE 05/16/12 Prepared: Lab ID: 236194-004 Analyzed: 05/17/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

Analyte Result Diesel C10-C24 Motor Oil C24-C36 490 Y 1.0 ND 5.0

%REC Limits Surrogate 49-128 o-Terphenyl

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Analysis: Sampled: EPA 8015B 05/10/12 Project#: 1409-1417 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB1-12A Batch#: 186635
Type: SAMPLE Prepared: 05/16/12
Lab ID: 236194-005 Analyzed: 05/21/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 40 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Gurrogato | %REC | Timita | |
|---------------|------|--------|--|
| Surrogate | ∂KEC | Limits | |
| o-Ternhenyl | 100 | 49-128 | |
| I O-IELDHEHYI | 100 | 49-140 | |

Field ID: CSB1-15 Batch#: 186635
Type: SAMPLE Prepared: 05/16/12
Lab ID: 236194-006 Analyzed: 05/21/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | 1.3 Y | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|------|
| o-Terphenyl | 73 | 49-128 | |

Field ID: CSB1-18 Batch#: 186635
Type: SAMPLE Prepared: 05/16/12
Lab ID: 236194-007 Analyzed: 05/21/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.2 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 108 | 49-128 |

Field ID: CSB2-5 Batch#: 186635
Type: SAMPLE Prepared: 05/16/12
Lab ID: 236194-008 Analyzed: 05/21/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.4 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 100 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons 236194 Lab #: Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Analysis: Sampled: EPA 8015B 05/10/12 Project#: 1409-1417 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB2-7 Batch#: 186635
Type: SAMPLE Prepared: 05/16/12
Lab ID: 236194-009 Analyzed: 05/21/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.1 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 103 | 49-128 |

Field ID: CSB2-10 Batch#: 186656

Type: SAMPLE Prepared: 05/17/12

Lab ID: 236194-010 Analyzed: 05/18/12

Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

Field ID: CSB3-5 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-011 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 108 | 49-128 |

Field ID: CSB3-7 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-012 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 2.6 Y | 1.0 | |
| Motor Oil C24-C36 | 7.4 | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 97 | 49-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Analysis: Sampled: EPA 8015B 05/10/12 Project#: 1409-1417 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB3-10 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-013 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.0 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Gurrogato | %REC | Timita | |
|---------------|------|--------|--|
| Surrogate | ∂KEC | Limits | |
| o-Ternhenyl | 100 | 49-128 | |
| I O-IELDHEHYI | 100 | 49-140 | |

Field ID: CSB3-12 Batch#: 186656

Type: SAMPLE Prepared: 05/17/12

Lab ID: 236194-014 Analyzed: 05/18/12

Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 2.9 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate %REC Limit |
|----------------------|
| -Terphenyl 106 49-12 |

Field ID: CSB3-15 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-015 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | ND | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 109 | 49-128 | |

Field ID: CSB3-18 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-016 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 96 | 49-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons 236194 Lab #: Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Analysis: Sampled: EPA 8015B 05/10/12 Project#: 1409-1417 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB4-5' Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-017 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|----------------|------------|--------|--|
| Bullogate | orec_ | птштср | |
| o-Ternhenyl | 9.0 | 49-128 | |
| O ICI DIICII I | <i>J</i> 0 | 49-120 | |

Field ID: CSB4-10' Batch#: 186656

Type: SAMPLE Prepared: 05/17/12

Lab ID: 236194-018 Analyzed: 05/18/12

Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.1 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate %REC | Limits |
|----------------|--------|
| -Terphenyl 103 | 49-12 |

Field ID: CSB4-7' Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-019 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 53 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 100 | 49-128 |

Field ID: CSB4-13 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-020 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | 1.0 Y | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 113 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Field ID: CSB4-12 Batch#: 186656 Type: SAMPLE Prepared: 05/17/12 Lab ID: 236194-021 Analyzed: 05/18/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|----------------|------------|--------|--|
| Bullogate | orec_ | птштср | |
| o-Ternhenyl | 9.0 | 49-128 | |
| O ICI DIICII I | <i>J</i> 0 | 49-140 | |

Field ID: CSB4-15 186656 Batch#: Prepared: SAMPLE 05/17/12 Type: Lab ID: 236194-022 Analyzed: 05/18/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | . Limit |
|-------------|---------|
| o-Terphenyl | 49-12 |

Field ID: CSB5-5 Batch#: 186656 Type: SAMPLE Prepared: 05/17/12 05/17/12 Lab ID: 236194-023 Analyzed: 1.000 Diln Fac: Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 114 | 49-128 | |

Field ID: CSB5-10 Batch#: 186656 SAMPLE Prepared: 05/17/12 Type: Lab ID: 236194-024 Analyzed: 05/17/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | ND | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 103 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Project#: 1409-1417 EPA 8015B Analysis: Sampled: Matrix: Soil 05/10/12 Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB5-7 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-025 Analyzed: 05/17/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

 Analyte
 Result
 RL

 Diesel C10-C24
 ND
 1.0

 Motor Oil C24-C36
 ND
 5.0

Surrogate %REC Limits
o-Terphenyl 123 49-128

Field ID: CSB5-12 Batch#: 186656
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-026 Analyzed: 05/17/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

 Analyte
 Result
 RL

 Diesel C10-C24
 ND
 1.0

 Motor Oil C24-C36
 ND
 5.0

Surrogate %REC Limits
O-Terphenyl 107 49-128

Field ID: CSB5-15 Batch#: 186656 Type: SAMPLE Prepared: 05/17/12 236194-027 05/17/12 Lab ID: Analyzed: Diln Fac: 1.000 Cleanup Method: EPA 3630C

 Analyte
 Result
 RL

 Diesel C10-C24
 ND
 0.99

 Motor Oil C24-C36
 ND
 5.0

Surrogate %REC Limits
o-Terphenyl 101 49-128

Field ID: CSB5-18 Batch#: 186656 Type: SAMPLE Prepared: 05/17/12 Lab ID: 236194-028 Analyzed: 05/17/12 Diln Fac: 1.000 EPA 3630C Cleanup Method:

 Analyte
 Result
 RL

 Diesel C10-C24
 ND
 0.99

 Motor Oil C24-C36
 ND
 5.0

Surrogate %REC Limits
O-Terphenyl 101 49-128

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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Field ID: CSB6-5 Batch#: 186656

Type: SAMPLE Prepared: 05/17/12

Lab ID: 236194-029 Analyzed: 05/21/12

Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | 2.2 Y | 0.99 | |
| Motor Oil C24-C36 | 27 | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|----------|--------|--|
| 241103400 | <u> </u> | | |
| o-Terphenyl | 96 | 49-128 | |

Field ID: CSB6-7 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-030 Analyzed: 05/21/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | 1.2 Y | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

Field ID: CSB6-10 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-031 Analyzed: 05/21/12
Diln Fac: 20.00 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|---------|-----|--|
| Diesel C10-C24 | 3,500 Y | 20 | |
| Motor Oil C24-C36 | ND | 100 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | DO | 49-128 |

Field ID: CSB6-13 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-032 Analyzed: 05/22/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 2.0 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 113 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Project#: 1409-1417 EPA 8015B Analysis: Sampled: Matrix: Soil 05/10/12 Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB6-15 Batch#: 186693 Type: 05/17/12 SAMPLE Prepared: 236194-033 Lab ID: Analyzed: 05/18/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

Result Analyte Diesel C10-C24 Motor Oil C24-C36 1.0 ND 5.0 ND

Surrogate %REC Limits o-Terphenyl 49-128

Field ID: CSB7-5 186693 Batch#: SAMPLE Prepared: 05/17/12 Type: Lab ID: 236194-034 Analyzed: 05/18/12 Diln Fac: 1.000 Cleanup Method: EPA 3630C

Analyte Result RLDiesel C10-C24 ND 1.0 Motor Oil C24-C36 5.<u>0</u> ND

Surrogate %REC Limits o-Terphenyl

Field ID: CSB7-7 Batch#: 186693 Type: SAMPLE Prepared: 05/17/12 236194-035 05/18/12 Lab ID: Analyzed: Diln Fac: 1.000 Cleanup Method: EPA 3630C

Analyte Result RLDiesel C10-C24 ND 1.0 Motor Oil C24-C36 5.0 ND

%REC Limits Surrogate 109 49-128 o-Terphenyl

Field ID: CSB7-10 Batch#: 186693 Type: SAMPLE Prepared: 05/17/12 Lab ID: 236194-036 Analyzed: 05/18/12 Diln Fac: 1.000 EPA 3630C Cleanup Method:

Result Analyte RL 0.99 Diesel C10-C24 MD Motor Oil C24-C36 ND 5.0

Surrogate %REC Limits o-Terphenyl

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Field ID: CSB7-13 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-037 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | ND | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-----------------|-------|--------|--|
| 20110980 | -9KEC | птштср | |
| o-Ternhenyl | 110 | 49-128 | |
| 0-161 bileilà i | T T O | 49-140 | |

Field ID: CSB7-15 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-038 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surroga |
|-------------|
| o-Terphenyl |

Field ID: CSB8-5 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-039 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.9 Y | 1.0 | |
| Motor Oil C24-C36 | 9.8 | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 121 | 49-128 |

Field ID: CSB8-7 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-040 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 113 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out
ND= Not Detected
DI- Deposition Limit

RL= Reporting Limit

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Field ID: CSB8-10 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-041 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|----------|--------|--|
| 20110980 | - OKLIC | птштср | |
| o-Terphenyl | 117 | 49-128 | |
| O_{-1} | / | 49-140 | |

Field ID: CSB8-12 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-042 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate %REC | Limits |
|-----------------|--------|
| o-Terphenyl 107 | 49-128 |

Field ID: CSB8-15 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-043 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 123 | 49-128 | |

Field ID: CSB8-18 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-044 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|------|--|
| Diesel C10-C24 | ND | 0.99 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 114 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out
ND= Not Detected
PL- Paparting Limi

RL= Reporting Limit

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Total Extractable Hydrocarbons Lab #: 236194 Location: 1409-1417 12th St., Oakland Client: EPA 3550B Impact Environmental Prep: Analysis: Sampled: Project#: 1409-1417 EPA 8015B 05/10/12 Matrix: Soil Units: mg/Kg Received: 05/14/12 Basis: as received

Field ID: CSB2-15 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-045 Analyzed: 05/19/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | 1.3 Y | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|---------------|-------|--------|--|
| Bullogace | -SKEC | птштср | |
| o-Terphenyl | 111 | 49-128 | |
| O TELBITETIAT | | 49-140 | |

Field ID: CSB2-18 Batch#: 186693
Type: SAMPLE Prepared: 05/17/12
Lab ID: 236194-046 Analyzed: 05/19/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate %REC Limits |
|-----------------------|
| -Terphenyl 110 49-12 |

Type: BLANK Prepared: 05/16/12
Lab ID: QC640090 Analyzed: 05/17/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C
Batch#: 186635

 Analyte
 Result
 RL

 Diesel C10-C24
 ND
 0.99

 Motor Oil C24-C36
 ND
 5.0

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 114 | 49-128 |

Type: BLANK Prepared: 05/17/12
Lab ID: QC640183 Analyzed: 05/18/12
Diln Fac: 1.000 Cleanup Method: EPA 3630C
Batch#: 186656

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits | |
|-------------|------|--------|--|
| o-Terphenyl | 116 | 49-128 | |

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected RL= Reporting Limit

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| Total Extractable Hydrocarbons | | | |
|--------------------------------|----------------------|-----------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 3550B |
| Project#: | 1409-1417 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | mg/Kg | Received: | 05/14/12 |
| Basis: | as received | | |

Type: Lab ID: Diln Fac: BLANK 05/17/12 Prepared: QC640330 1.000 Analyzed: 05/18/12 Cleanup Method: EPA 3630C

Batch#: 186693

| Analyte | Result | RL | |
|-------------------|--------|-----|--|
| Diesel C10-C24 | ND | 1.0 | |
| Motor Oil C24-C36 | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 109 | 49-128 |

ND= Not Detected

RL= Reporting Limit

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| Total Extractable Hydrocarbons | | | |
|--------------------------------|----------------------|-----------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 3550B |
| Project#: | 1409-1417 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC640091 | Batch#: | 186635 |
| Matrix: | Soil | Prepared: | 05/16/12 |
| Units: | mg/Kg | Analyzed: | 05/17/12 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.93 | 49.36 | 99 | 47-132 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 107 | 49-128 |

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| | Total Extractable Hydrocarbons | | | | |
|-------------|--------------------------------|-----------|-----------------------------|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | |
| Client: | Impact Environmental | Prep: | EPA 3550B | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | |
| Field ID: | ZZZZZZZZZ | Batch#: | 186635 | | |
| MSS Lab ID: | 236196-008 | Sampled: | 05/14/12 | | |
| Matrix: | Soil | Received: | 05/14/12 | | |
| Units: | mg/Kg | Prepared: | 05/16/12 | | |
| Basis: | as received | Analyzed: | 05/17/12 | | |
| Diln Fac: | 1.000 | | | | |

Type: MS Lab ID: QC640092

| Analyte | MSS Result | Spiked | Result | %REC Limits |
|----------------|------------|--------|--------|--------------|
| Diesel C10-C24 | 163.1 | 50.13 | 258.5 | 190 * 32-143 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 105 | 49-128 |

Type: MSD Lab ID: QC640093

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|-------|--------|-----|-----|
| Diesel C10-C24 | 50.38 | 278.7 | 230 * | 32-143 | 7 | 54 |

| | Surrogate | %REC | Limits |
|---------|-----------|------|--------|
| - m le | | 112 | 40 100 |
| o-Terph | | 113 | 49-128 |

^{*=} Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1



| Total Extractable Hydrocarbons | | | | | | |
|--------------------------------|----------------------|-----------|-----------------------------|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | |
| Client: | Impact Environmental | Prep: | EPA 3550B | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | | |
| Type: | LCS | Diln Fac: | 1.000 | | | |
| Lab ID: | QC640184 | Batch#: | 186656 | | | |
| Matrix: | Soil | Prepared: | 05/17/12 | | | |
| Units: | mg/Kg | Analyzed: | 05/18/12 | | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.79 | 48.21 | 97 | 47-132 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 101 | 49-128 |

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| Total Extractable Hydrocarbons | | | | | | |
|--------------------------------|----------------------|-----------|-----------------------------|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | |
| Client: | Impact Environmental | Prep: | EPA 3550B | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | | |
| Field ID: | CSB4-12 | Batch#: | 186656 | | | |
| MSS Lab ID: | 236194-021 | Sampled: | 05/10/12 | | | |
| Matrix: | Soil | Received: | 05/14/12 | | | |
| Units: | mg/Kg | Prepared: | 05/17/12 | | | |
| Basis: | as received | Analyzed: | 05/18/12 | | | |
| Diln Fac: | 1.000 | | | | | |

Type: MS Cleanup Method: EPA 3630C

Lab ID: QC640185

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 0.3979 | 49.86 | 45.05 | 90 | 32-143 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 96 | 49-128 |

Type: MSD Cleanup Method: EPA 3630C

Lab ID: QC640186

| Analyte | Spiked | Result | %REC | Limits | RPD I | Lim |
|----------------|--------|--------|------|--------|-------|-----|
| Diesel C10-C24 | 50.30 | 40.55 | 80 | 32-143 | | 54 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 84 | 49-128 |



| Total Extractable Hydrocarbons | | | | | | |
|--------------------------------|----------------------|-----------|-----------------------------|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | |
| Client: | Impact Environmental | Prep: | EPA 3550B | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | | |
| Type: | LCS | Diln Fac: | 1.000 | | | |
| Lab ID: | QC640331 | Batch#: | 186693 | | | |
| Matrix: | Soil | Prepared: | 05/17/12 | | | |
| Units: | mg/Kg | Analyzed: | 05/18/12 | | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.85 | 53.37 | 107 | 47-132 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 126 | 49-128 |

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| Total Extractable Hydrocarbons | | | | | | |
|--------------------------------|----------------------|-----------|-----------------------------|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | |
| Client: | Impact Environmental | Prep: | EPA 3550B | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8015B | | | |
| Field ID: | CSB8-10 | Batch#: | 186693 | | | |
| MSS Lab ID: | 236194-041 | Sampled: | 05/10/12 | | | |
| Matrix: | Soil | Received: | 05/14/12 | | | |
| Units: | mg/Kg | Prepared: | 05/17/12 | | | |
| Basis: | as received | Analyzed: | 05/18/12 | | | |
| Diln Fac: | 1.000 | | | | | |

Type: MS Cleanup Method: EPA 3630C

Lab ID: QC640332

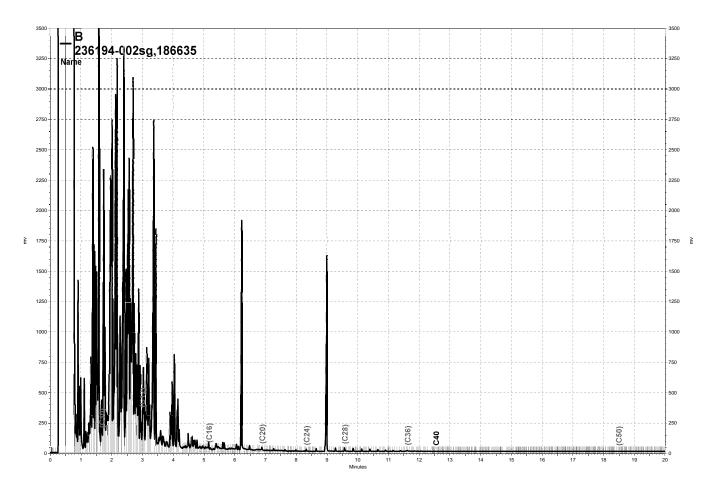
| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 0.8958 | 49.55 | 55.34 | 110 | 32-143 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 124 | 49-128 |

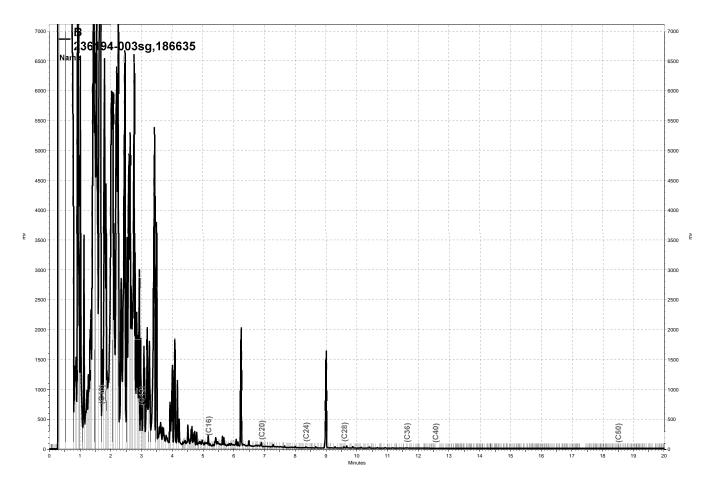
Type: MSD Cleanup Method: EPA 3630C

Lab ID: QC640333

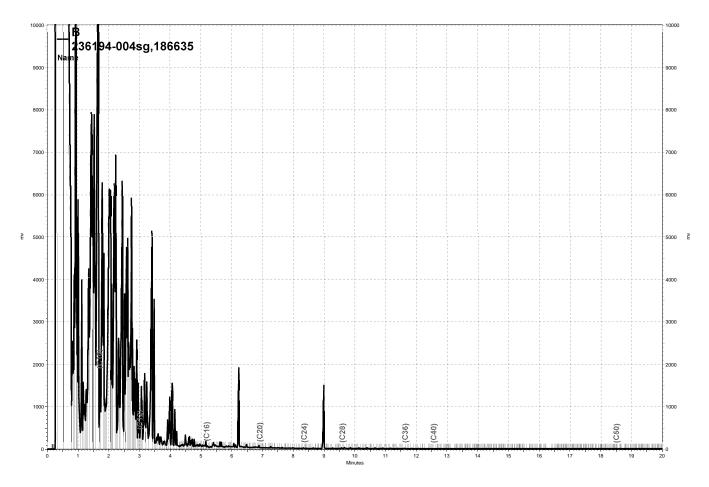
| Analyte | Spiked | Result | %REC | Limits | RPD : | Lim |
|----------------|--------|--------|------|--------|-------|-----|
| Diesel C10-C24 | 49.81 | 49.35 | 97 | 32-143 | 12 | 54 |



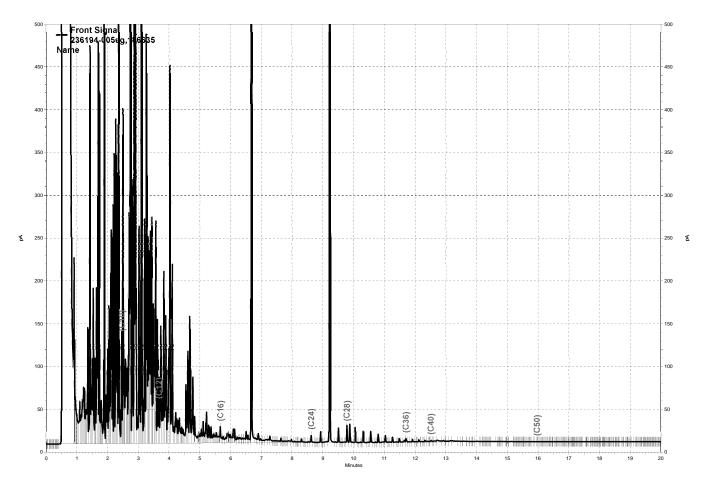
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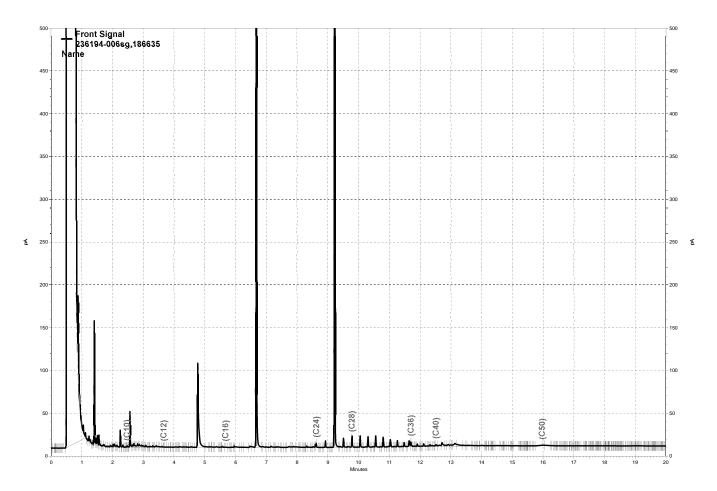
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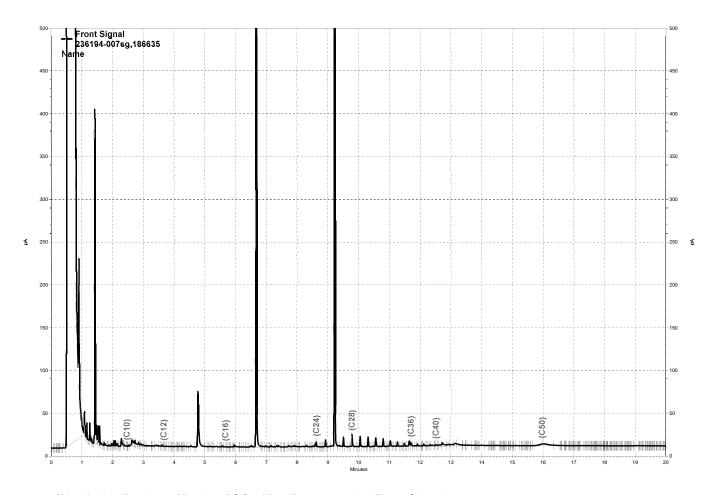
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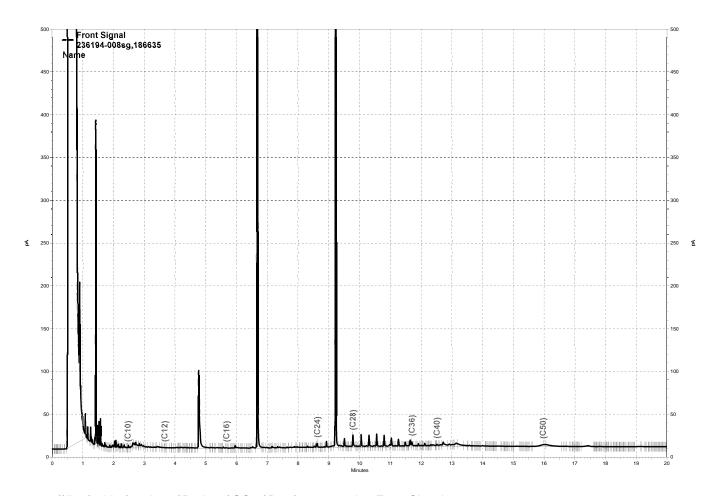
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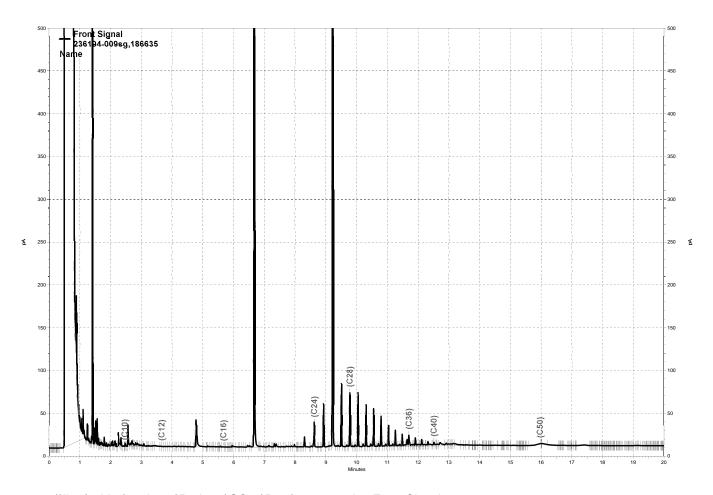
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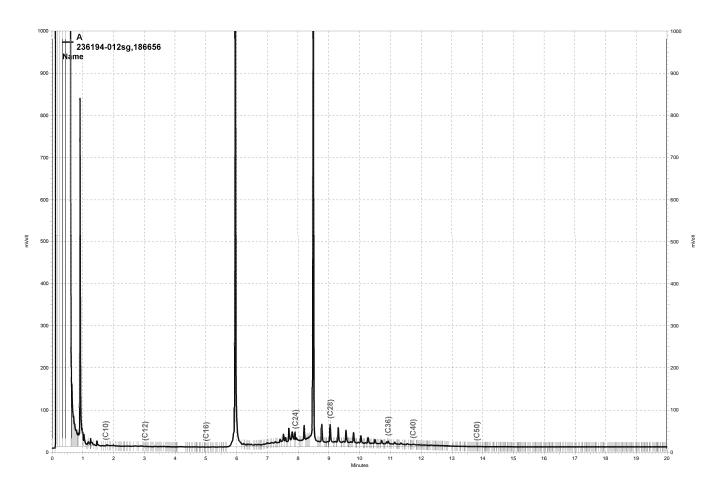
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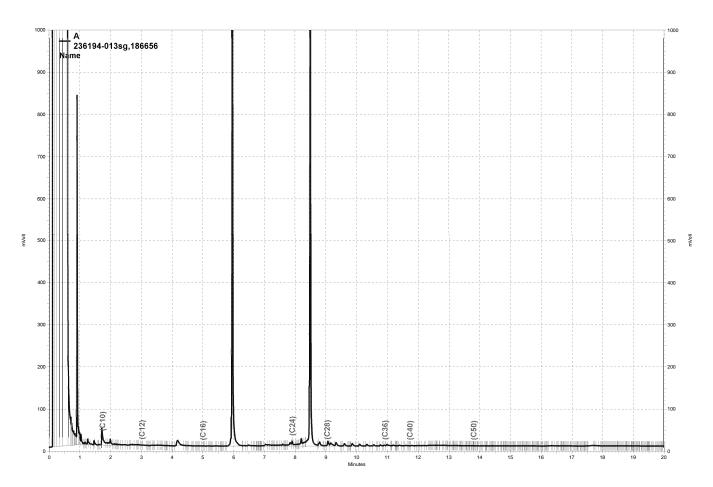
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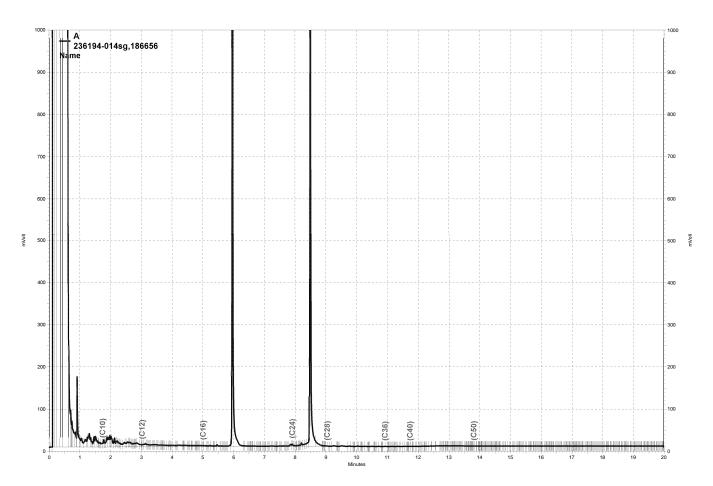
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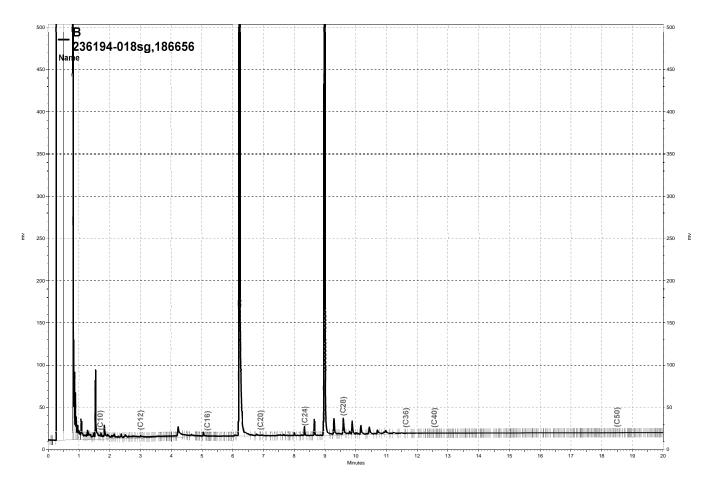
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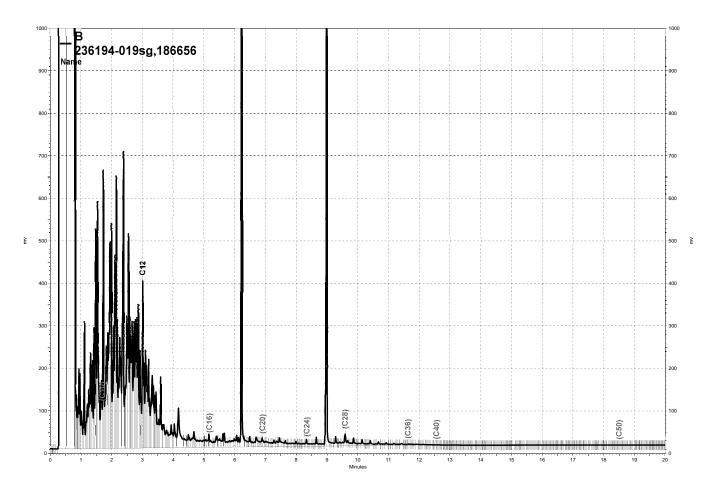
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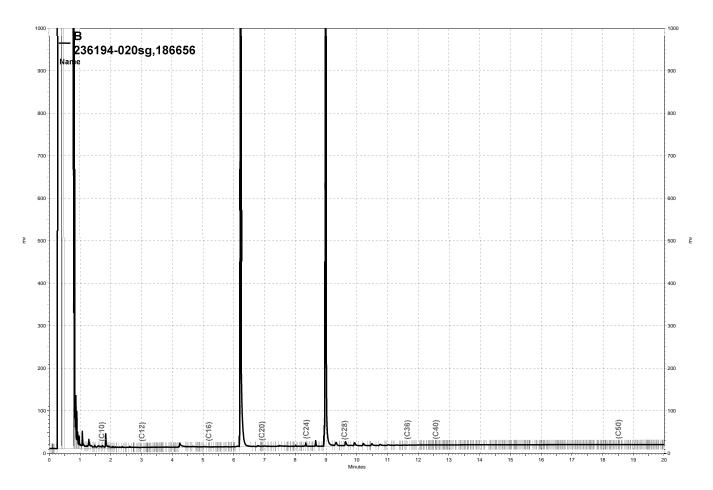
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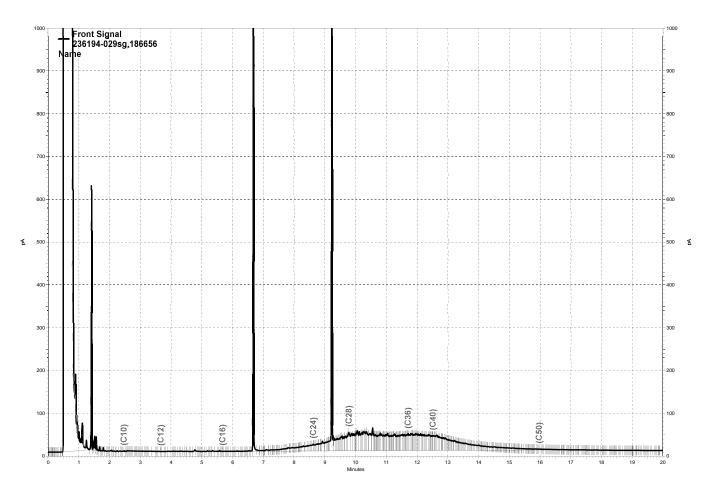
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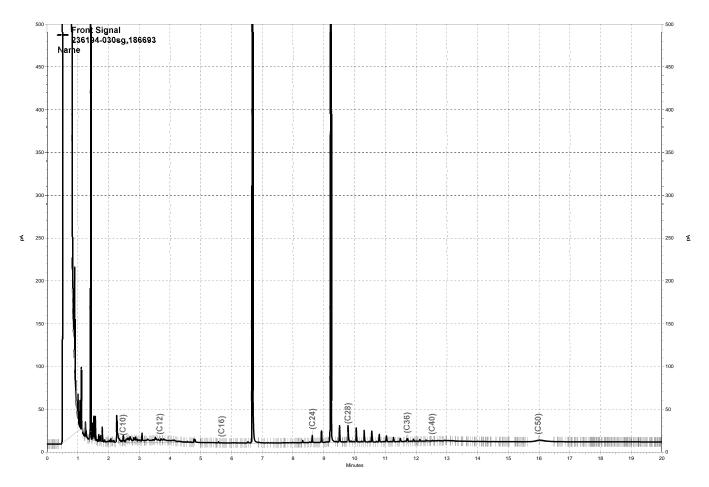
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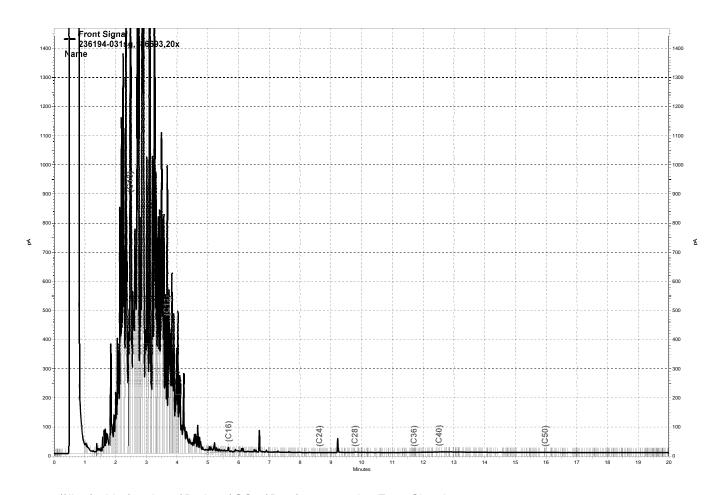
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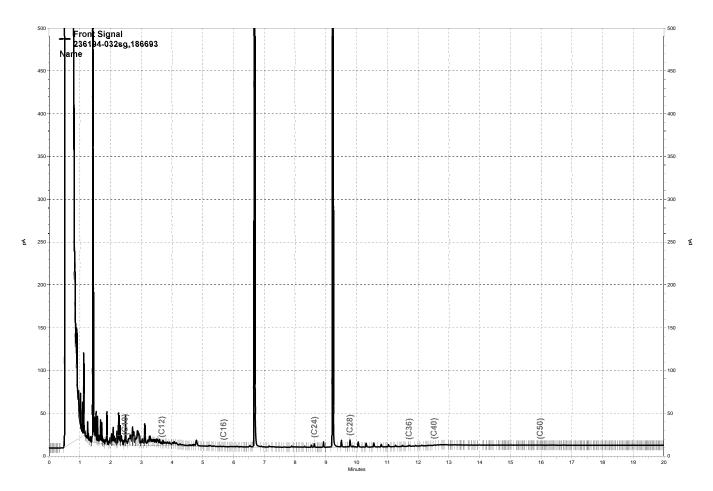
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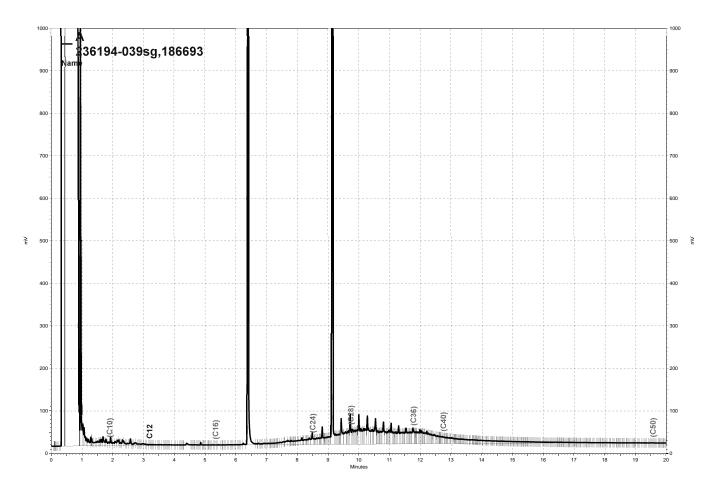
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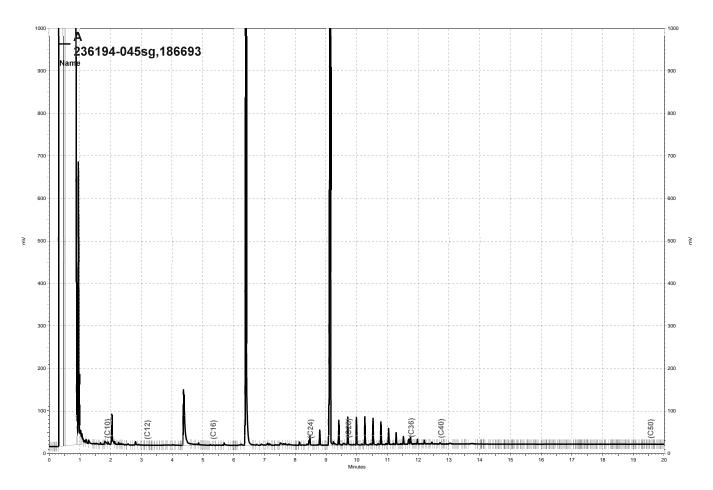
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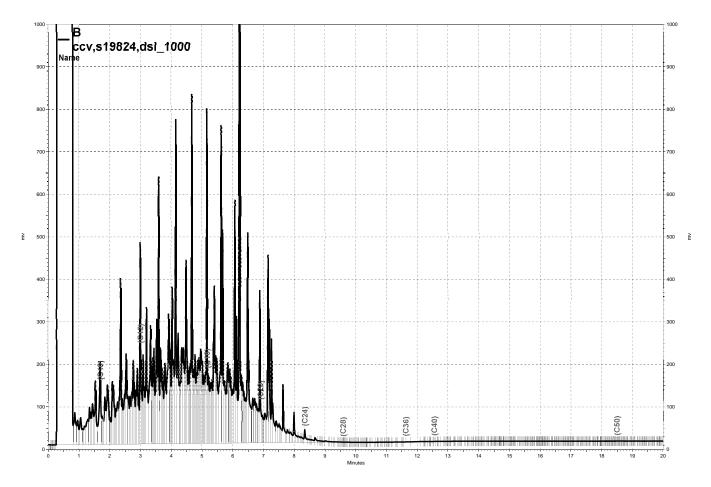
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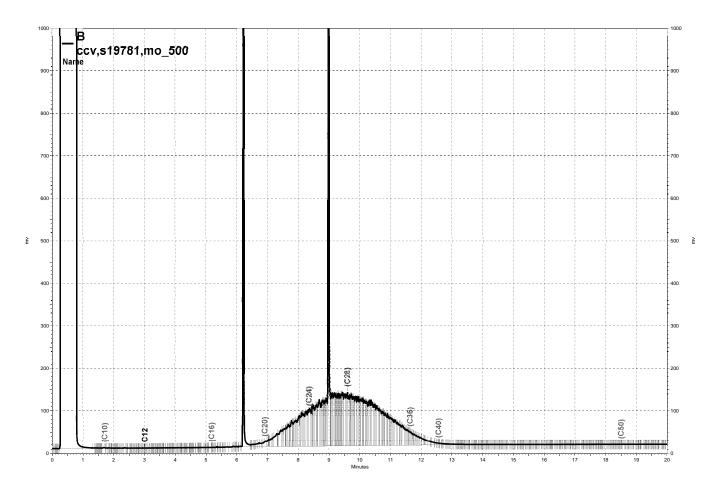
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\Lims\gdrive\ezchrom\Projects\GC15B\Data\138a003, B



\Lims\gdrive\ezchrom\Projects\GC15B\Data\138a010, B



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-5 | Diln Fac: | 0.9690 |
| Lab ID: | 236194-001 | Batch#: | 186570 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/15/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 100 | 74-136 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-7 | Diln Fac: | 250.0 |
| Lab ID: | 236194-002 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|--------|--|
| tert-Butyl Alcohol (TBA) | ND | 25,000 | |
| MTBE | ND | 1,300 | |
| Isopropyl Ether (DIPE) | ND | 1,300 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1,300 | |
| 1,2-Dichloroethane | ND | 1,300 | |
| Benzene | ND | 1,300 | |
| Methyl tert-Amyl Ether (TAME) | ND | 1,300 | |
| Toluene | ND | 1,300 | |
| 1,2-Dibromoethane | ND | 1,300 | |
| Ethylbenzene | 3,100 | 1,300 | |
| m,p-Xylenes | 21,000 | 1,300 | |
| o-Xylene | 9,900 | 1,300 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane | 95 | 74-133 |
| 1,2-Dichloroethane-d4 | 102 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 106 | 77-130 |
| Trifluorotoluene (MeOH) | 98 | 60-135 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-10 | Diln Fac: | 166.7 |
| Lab ID: | 236194-003 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|--------|--|
| tert-Butyl Alcohol (TBA) | ND | 17,000 | |
| MTBE | ND | 830 | |
| Isopropyl Ether (DIPE) | ND | 830 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 830 | |
| 1,2-Dichloroethane | ND | 830 | |
| Benzene | ND | 830 | |
| Methyl tert-Amyl Ether (TAME) | ND | 830 | |
| Toluene | ND | 830 | |
| 1,2-Dibromoethane | ND | 830 | |
| Ethylbenzene | 990 | 830 | |
| m,p-Xylenes | 55,000 | 830 | |
| o-Xylene | 30,000 | 830 | |

| Surrogate | %REC | Limits |
|---------------------------|------|--------|
| Dibromofluoromethane 9 | 94 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 101 | 74-136 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene 1 | 112 | 77-130 |
| Trifluorotoluene (MeOH) 9 | 98 | 60-135 |

ND= Not Detected
RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-12 | Diln Fac: | 250.0 |
| Lab ID: | 236194-004 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|--------|--|
| tert-Butyl Alcohol (TBA) | ND | 25,000 | |
| MTBE | ND | 1,300 | |
| Isopropyl Ether (DIPE) | ND | 1,300 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1,300 | |
| 1,2-Dichloroethane | ND | 1,300 | |
| Benzene | ND | 1,300 | |
| Methyl tert-Amyl Ether (TAME) | ND | 1,300 | |
| Toluene | ND | 1,300 | |
| 1,2-Dibromoethane | ND | 1,300 | |
| Ethylbenzene | 25,000 | 1,300 | |
| m,p-Xylenes | 81,000 | 1,300 | |
| o-Xylene | 24,000 | 1,300 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane | 97 | 74-133 |
| 1,2-Dichloroethane-d4 | 103 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 108 | 77-130 |
| Trifluorotoluene (MeOH) | 100 | 60-135 |

ND= Not Detected
RL= Reporting Limit

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| | втхе | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-12A | Diln Fac: | 0.9901 |
| Lab ID: | 236194-005 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 99 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 99 | 74-133 |
| 1,2-Dichloroethane-d4 | 105 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 102 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-15 | Diln Fac: | 0.9634 |
| Lab ID: | 236194-006 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 96 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 97 | 74-136 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 98 | 77-130 |

ge 1 of 1



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB1-18 | Diln Fac: | 0.9470 |
| Lab ID: | 236194-007 | Batch#: | 186615 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 95 | |
| MTBE | ND | 4.7 | |
| Isopropyl Ether (DIPE) | ND | 4.7 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 | |
| 1,2-Dichloroethane | ND | 4.7 | |
| Benzene | ND | 4.7 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 | |
| Toluene | ND | 4.7 | |
| 1,2-Dibromoethane | ND | 4.7 | |
| Ethylbenzene | ND | 4.7 | |
| m,p-Xylenes | ND | 4.7 | |
| o-Xylene | ND | 4.7 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 105 | 74-136 |
| Toluene-d8 | 111 | 80-120 |
| Bromofluorobenzene | 113 | 77-130 |

ND= Not Detected RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB2-5 | Diln Fac: | 0.9960 |
| Lab ID: | 236194-008 | Batch#: | 186616 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 103 | 77-130 |



| | BTXE 8 | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB2-7 | Diln Fac: | 0.9560 |
| Lab ID: | 236194-009 | Batch#: | 186616 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 96 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 74-133 |
| 1,2-Dichloroethane-d4 | 103 | 74-136 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB2-10 | Diln Fac: | 0.9980 |
| Lab ID: | 236194-010 | Batch#: | 186616 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|------------------------|------|--------|
| Dibromofluoromethane 1 | 100 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene 1 | 100 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB3-5 | Diln Fac: | 0.9960 |
| Lab ID: | 236194-011 | Batch#: | 186616 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 100 | 74-133 |
| 1,2-Dichloroethane-d4 | 100 | 74-136 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |



| | ВТХЕ | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB3-7 | Diln Fac: | 0.9328 |
| Lab ID: | 236194-012 | Batch#: | 186615 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 93 | |
| MTBE | ND | 4.7 | |
| Isopropyl Ether (DIPE) | ND | 4.7 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 | |
| 1,2-Dichloroethane | ND | 4.7 | |
| Benzene | ND | 4.7 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 | |
| Toluene | ND | 4.7 | |
| 1,2-Dibromoethane | ND | 4.7 | |
| Ethylbenzene | ND | 4.7 | |
| m,p-Xylenes | ND | 4.7 | |
| o-Xylene | ND | 4.7 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 10 | .03 | 74-133 |
| 1,2-Dichloroethane-d4 | 13 | 74-136 |
| Toluene-d8 | 11 | 80-120 |
| Bromofluorobenzene 10 | .09 | 77-130 |

ND= Not Detected RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB3-10 | Diln Fac: | 1.000 |
| Lab ID: | 236194-013 | Batch#: | 186615 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|------------------------|------|--------|
| Dibromofluoromethane 1 | 109 | 74-133 |
| 1,2-Dichloroethane-d4 | 109 | 74-136 |
| Toluene-d8 | 112 | 80-120 |
| Bromofluorobenzene | 112 | 77-130 |

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| | втхе | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB3-12 | Diln Fac: | 0.9843 |
| Lab ID: | 236194-014 | Batch#: | 186615 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 98 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 1 | L09 | 74-133 |
| 1,2-Dichloroethane-d4 1 | L13 | 74-136 |
| Toluene-d8 1 | 12 | 80-120 |
| Bromofluorobenzene 1 | 12 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB3-15 | Diln Fac: | 0.9225 |
| Lab ID: | 236194-015 | Batch#: | 186615 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 92 | |
| MTBE | ND | 4.6 | |
| Isopropyl Ether (DIPE) | ND | 4.6 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.6 | |
| 1,2-Dichloroethane | ND | 4.6 | |
| Benzene | ND | 4.6 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.6 | |
| Toluene | ND | 4.6 | |
| 1,2-Dibromoethane | ND | 4.6 | |
| Ethylbenzene | ND | 4.6 | |
| m,p-Xylenes | ND | 4.6 | |
| o-Xylene | ND | 4.6 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 108 | 74-133 |
| 1,2-Dichloroethane-d4 | 111 | 74-136 |
| Toluene-d8 | 109 | 80-120 |
| Bromofluorobenzene | 110 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB3-18 | Diln Fac: | 0.9470 |
| Lab ID: | 236194-016 | Batch#: | 186615 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/16/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 95 | |
| MTBE | ND | 4.7 | |
| Isopropyl Ether (DIPE) | ND | 4.7 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 | |
| 1,2-Dichloroethane | ND | 4.7 | |
| Benzene | ND | 4.7 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 | |
| Toluene | ND | 4.7 | |
| 1,2-Dibromoethane | ND | 4.7 | |
| Ethylbenzene | ND | 4.7 | |
| m,p-Xylenes | ND | 4.7 | |
| o-Xylene | ND | 4.7 | |

| Surrogate % | %REC | Limits |
|--------------------------|------|--------|
| Dibromofluoromethane 11 | 11 | 74-133 |
| 1,2-Dichloroethane-d4 11 | 18 | 74-136 |
| Toluene-d8 11 | 12 | 80-120 |
| Bromofluorobenzene 11 | 15 | 77-130 |

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| | ВТХЕ | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB4-5' | Diln Fac: | 0.9843 |
| Lab ID: | 236194-017 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 98 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB4-10' | Diln Fac: | 0.9785 |
| Lab ID: | 236194-018 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 98 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|------------------------|------|--------|
| Dibromofluoromethane 1 | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 99 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene 1 | 100 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB4-7' | Diln Fac: | 0.9843 |
| Lab ID: | 236194-019 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 98 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 1 | 102 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 101 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene 9 | 99 | 77-130 |



| | ВТХЕ | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB4-13 | Diln Fac: | 0.9542 |
| Lab ID: | 236194-020 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 95 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 74-133 |
| 1,2-Dichloroethane-d4 | 101 | 74-136 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 98 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB4-12 | Diln Fac: | 0.9653 |
| Lab ID: | 236194-021 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 100 | 74-136 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 98 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB4-15 | Diln Fac: | 0.9141 |
| Lab ID: | 236194-022 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 91 | |
| MTBE | ND | 4.6 | |
| Isopropyl Ether (DIPE) | ND | 4.6 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.6 | |
| 1,2-Dichloroethane | ND | 4.6 | |
| Benzene | ND | 4.6 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.6 | |
| Toluene | ND | 4.6 | |
| 1,2-Dibromoethane | ND | 4.6 | |
| Ethylbenzene | ND | 4.6 | |
| m,p-Xylenes | ND | 4.6 | |
| o-Xylene | ND | 4.6 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 101 | 74-136 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB5-5 | Diln Fac: | 0.9747 |
| Lab ID: | 236194-023 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 74-133 |
| 1,2-Dichloroethane-d4 | 100 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 98 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB5-10 | Diln Fac: | 0.9728 |
| Lab ID: | 236194-024 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 104 | 74-136 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 98 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB5-7 | Diln Fac: | 0.9747 |
| Lab ID: | 236194-025 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 103 | 74-136 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |

ND= Not Detected RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB5-12 | Diln Fac: | 0.9747 |
| Lab ID: | 236194-026 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 1 | 106 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 103 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene 1 | 101 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB5-15 | Diln Fac: | 0.9470 |
| Lab ID: | 236194-027 | Batch#: | 186686 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 95 | |
| MTBE | ND | 4.7 | |
| Isopropyl Ether (DIPE) | ND | 4.7 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 | |
| 1,2-Dichloroethane | ND | 4.7 | |
| Benzene | ND | 4.7 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 | |
| Toluene | ND | 4.7 | |
| 1,2-Dibromoethane | ND | 4.7 | |
| Ethylbenzene | ND | 4.7 | |
| m,p-Xylenes | ND | 4.7 | |
| o-Xylene | ND | 4.7 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 1 | 102 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 103 | 74-136 |
| Toluene-d8 9 | 94 | 80-120 |
| Bromofluorobenzene 9 | 99 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB5-18 | Diln Fac: | 0.9560 |
| Lab ID: | 236194-028 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 96 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 10 | .04 | 74-133 |
| 1,2-Dichloroethane-d4 1 | .08 | 74-136 |
| Toluene-d8 | .10 | 80-120 |
| Bromofluorobenzene 10 | .06 | 77-130 |



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB6-5 | Diln Fac: | 0.9597 |
| Lab ID: | 236194-029 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 96 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate % | REC | Limits |
|--------------------------|-----|--------|
| Dibromofluoromethane 10 | 06 | 74-133 |
| 1,2-Dichloroethane-d4 10 | 80 | 74-136 |
| Toluene-d8 11 | 11 | 80-120 |
| Bromofluorobenzene 10 |)9 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB6-7 | Diln Fac: | 0.9597 |
| Lab ID: | 236194-030 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 96 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 105 | 74-133 |
| 1,2-Dichloroethane-d4 | 112 | 74-136 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 105 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB6-10 | Diln Fac: | 2,500 |
| Lab ID: | 236194-031 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/19/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|---------|--|
| tert-Butyl Alcohol (TBA) | ND | 250,000 | |
| MTBE | ND | 13,000 | |
| Isopropyl Ether (DIPE) | ND | 13,000 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 13,000 | |
| 1,2-Dichloroethane | ND | 13,000 | |
| Benzene | ND | 13,000 | |
| Methyl tert-Amyl Ether (TAME) | ND | 13,000 | |
| Toluene | ND | 13,000 | |
| 1,2-Dibromoethane | ND | 13,000 | |
| Ethylbenzene | ND | 13,000 | |
| m,p-Xylenes | ND | 13,000 | |
| o-Xylene | ND | 13,000 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane | 96 | 74-133 |
| 1,2-Dichloroethane-d4 | 101 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 105 | 77-130 |
| Trifluorotoluene (MeOH) | DO | 60-135 |

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB6-13 | Diln Fac: | 0.9470 |
| Lab ID: | 236194-032 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 95 | |
| MTBE | ND | 4.7 | |
| Isopropyl Ether (DIPE) | ND | 4.7 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 | |
| 1,2-Dichloroethane | ND | 4.7 | |
| Benzene | ND | 4.7 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 | |
| Toluene | ND | 4.7 | |
| 1,2-Dibromoethane | ND | 4.7 | |
| Ethylbenzene | ND | 4.7 | |
| m,p-Xylenes | ND | 4.7 | |
| o-Xylene | ND | 4.7 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 97 | 74-133 |
| 1,2-Dichloroethane-d4 | 112 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 99 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB6-15 | Diln Fac: | 0.9785 |
| Lab ID: | 236194-033 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 98 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 99 | 74-133 |
| 1,2-Dichloroethane-d4 | 96 | 74-136 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB7-5 | Diln Fac: | 0.8772 |
| Lab ID: | 236194-034 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 88 | |
| MTBE | ND | 4.4 | |
| Isopropyl Ether (DIPE) | ND | 4.4 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.4 | |
| 1,2-Dichloroethane | ND | 4.4 | |
| Benzene | ND | 4.4 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.4 | |
| Toluene | ND | 4.4 | |
| 1,2-Dibromoethane | ND | 4.4 | |
| Ethylbenzene | ND | 4.4 | |
| m,p-Xylenes | ND | 4.4 | |
| o-Xylene | ND | 4.4 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 111 | 74-136 |
| Toluene-d8 | 110 | 80-120 |
| Bromofluorobenzene | 106 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB7-7 | Diln Fac: | 0.9843 |
| Lab ID: | 236194-035 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 98 | |
| MTBE | ND | 4.9 | |
| Isopropyl Ether (DIPE) | ND | 4.9 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.9 | |
| 1,2-Dichloroethane | ND | 4.9 | |
| Benzene | ND | 4.9 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.9 | |
| Toluene | ND | 4.9 | |
| 1,2-Dibromoethane | ND | 4.9 | |
| Ethylbenzene | ND | 4.9 | |
| m,p-Xylenes | ND | 4.9 | |
| o-Xylene | ND | 4.9 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 114 | 74-136 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 108 | 77-130 |

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| | втхе | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB7-10 | Diln Fac: | 0.9671 |
| Lab ID: | 236194-036 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 97 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 109 | 74-133 |
| 1,2-Dichloroethane-d4 | 108 | 74-136 |
| Toluene-d8 | 108 | 80-120 |
| Bromofluorobenzene | 108 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB7-13 | Diln Fac: | 0.8803 |
| Lab ID: | 236194-037 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 88 | |
| MTBE | ND | 4.4 | |
| Isopropyl Ether (DIPE) | ND | 4.4 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.4 | |
| 1,2-Dichloroethane | ND | 4.4 | |
| Benzene | ND | 4.4 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.4 | |
| Toluene | ND | 4.4 | |
| 1,2-Dibromoethane | ND | 4.4 | |
| Ethylbenzene | ND | 4.4 | |
| m,p-Xylenes | ND | 4.4 | |
| o-Xylene | ND | 4.4 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 105 | 74-133 |
| 1,2-Dichloroethane-d4 | 110 | 74-136 |
| Toluene-d8 | 108 | 80-120 |
| Bromofluorobenzene | 107 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB7-15 | Diln Fac: | 0.9058 |
| Lab ID: | 236194-038 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 91 | |
| MTBE | ND | 4.5 | |
| Isopropyl Ether (DIPE) | ND | 4.5 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.5 | |
| 1,2-Dichloroethane | ND | 4.5 | |
| Benzene | ND | 4.5 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.5 | |
| Toluene | ND | 4.5 | |
| 1,2-Dibromoethane | ND | 4.5 | |
| Ethylbenzene | ND | 4.5 | |
| m,p-Xylenes | ND | 4.5 | |
| o-Xylene | ND | 4.5 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 1 | 107 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 112 | 74-136 |
| Toluene-d8 1 | 111 | 80-120 |
| Bromofluorobenzene 1 | 102 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| | втхе | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-5 | Diln Fac: | 0.8897 |
| Lab ID: | 236194-039 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/17/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 89 | |
| MTBE | ND | 4.4 | |
| Isopropyl Ether (DIPE) | ND | 4.4 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.4 | |
| 1,2-Dichloroethane | ND | 4.4 | |
| Benzene | ND | 4.4 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.4 | |
| Toluene | ND | 4.4 | |
| 1,2-Dibromoethane | ND | 4.4 | |
| Ethylbenzene | ND | 4.4 | |
| m,p-Xylenes | ND | 4.4 | |
| o-Xylene | ND | 4.4 | |

| Surrogate %I | REC | Limits |
|---------------------------|-----|--------|
| Dibromofluoromethane 106 | 6 | 74-133 |
| 1,2-Dichloroethane-d4 113 | .3 | 74-136 |
| Toluene-d8 112 | .2 | 80-120 |
| Bromofluorobenzene 108 | 8 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-7 | Diln Fac: | 0.8666 |
| Lab ID: | 236194-040 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 87 | |
| MTBE | ND | 4.3 | |
| Isopropyl Ether (DIPE) | ND | 4.3 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.3 | |
| 1,2-Dichloroethane | ND | 4.3 | |
| Benzene | ND | 4.3 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.3 | |
| Toluene | ND | 4.3 | |
| 1,2-Dibromoethane | ND | 4.3 | |
| Ethylbenzene | ND | 4.3 | |
| m,p-Xylenes | ND | 4.3 | |
| o-Xylene | ND | 4.3 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 9 | 98 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 106 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene 9 | 99 | 77-130 |

ge 1 of 1 51.0



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-10 | Diln Fac: | 0.9107 |
| Lab ID: | 236194-041 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 91 | |
| MTBE | ND | 4.6 | |
| Isopropyl Ether (DIPE) | ND | 4.6 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.6 | |
| 1,2-Dichloroethane | ND | 4.6 | |
| Benzene | ND | 4.6 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.6 | |
| Toluene | ND | 4.6 | |
| 1,2-Dibromoethane | ND | 4.6 | |
| Ethylbenzene | ND | 4.6 | |
| m,p-Xylenes | ND | 4.6 | |
| o-Xylene | ND | 4.6 | |

| Surrogate | %REC | Limits |
|------------------------|------|--------|
| Dibromofluoromethane 9 | 98 | 74-133 |
| 1,2-Dichloroethane-d4 | L07 | 74-136 |
| Toluene-d8 | L05 | 80-120 |
| Bromofluorobenzene 1 | L02 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-12 | Diln Fac: | 0.9074 |
| Lab ID: | 236194-042 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 91 | |
| MTBE | ND | 4.5 | |
| Isopropyl Ether (DIPE) | ND | 4.5 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.5 | |
| 1,2-Dichloroethane | ND | 4.5 | |
| Benzene | ND | 4.5 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.5 | |
| Toluene | ND | 4.5 | |
| 1,2-Dibromoethane | ND | 4.5 | |
| Ethylbenzene | ND | 4.5 | |
| m,p-Xylenes | ND | 4.5 | |
| o-Xylene | ND | 4.5 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 97 | 74-133 |
| 1,2-Dichloroethane-d4 | 106 | 74-136 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |

ge 1 of 1 53.0



| | ВТХЕ | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-15 | Diln Fac: | 0.9091 |
| Lab ID: | 236194-043 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 91 | |
| MTBE | ND | 4.5 | |
| Isopropyl Ether (DIPE) | ND | 4.5 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.5 | |
| 1,2-Dichloroethane | ND | 4.5 | |
| Benzene | ND | 4.5 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.5 | |
| Toluene | ND | 4.5 | |
| 1,2-Dibromoethane | ND | 4.5 | |
| Ethylbenzene | ND | 4.5 | |
| m,p-Xylenes | ND | 4.5 | |
| o-Xylene | ND | 4.5 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 9 | 9 | 74-133 |
| 1,2-Dichloroethane-d4 1 | 108 | 74-136 |
| Toluene-d8 1 | L04 | 80-120 |
| Bromofluorobenzene 1 | L02 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-18 | Diln Fac: | 0.9191 |
| Lab ID: | 236194-044 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 92 | |
| MTBE | ND | 4.6 | |
| Isopropyl Ether (DIPE) | ND | 4.6 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.6 | |
| 1,2-Dichloroethane | ND | 4.6 | |
| Benzene | ND | 4.6 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.6 | |
| Toluene | ND | 4.6 | |
| 1,2-Dibromoethane | ND | 4.6 | |
| Ethylbenzene | ND | 4.6 | |
| m,p-Xylenes | ND | 4.6 | |
| o-Xylene | ND | 4.6 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 99 | 9 | 74-133 |
| 1,2-Dichloroethane-d4 | .06 | 74-136 |
| Toluene-d8 | .05 | 80-120 |
| Bromofluorobenzene 10 | .02 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB2-15 | Diln Fac: | 0.9542 |
| Lab ID: | 236194-045 | Batch#: | 186777 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/21/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 95 | |
| MTBE | ND | 4.8 | |
| Isopropyl Ether (DIPE) | ND | 4.8 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.8 | |
| 1,2-Dichloroethane | ND | 4.8 | |
| Benzene | ND | 4.8 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.8 | |
| Toluene | ND | 4.8 | |
| 1,2-Dibromoethane | ND | 4.8 | |
| Ethylbenzene | ND | 4.8 | |
| m,p-Xylenes | ND | 4.8 | |
| o-Xylene | ND | 4.8 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 10 | .07 | 74-133 |
| 1,2-Dichloroethane-d4 | 16 | 74-136 |
| Toluene-d8 | .08 | 80-120 |
| Bromofluorobenzene 10 | .08 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB2-18 | Diln Fac: | 0.9328 |
| Lab ID: | 236194-046 | Batch#: | 186718 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |
| Basis: | as received | Analyzed: | 05/18/12 |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 93 | |
| MTBE | ND | 4.7 | |
| Isopropyl Ether (DIPE) | ND | 4.7 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 4.7 | |
| 1,2-Dichloroethane | ND | 4.7 | |
| Benzene | ND | 4.7 | |
| Methyl tert-Amyl Ether (TAME) | ND | 4.7 | |
| Toluene | ND | 4.7 | |
| 1,2-Dibromoethane | ND | 4.7 | |
| Ethylbenzene | ND | 4.7 | |
| m,p-Xylenes | ND | 4.7 | |
| o-Xylene | ND | 4.7 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 99 | 74-133 |
| 1,2-Dichloroethane-d4 | 109 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC639808 | Batch#: | 186570 |
| Matrix: | Soil | Analyzed: | 05/15/12 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 125.0 | 134.5 | 108 | 46-135 |
| MTBE | 25.00 | 25.51 | 102 | 62-120 |
| Isopropyl Ether (DIPE) | 25.00 | 25.15 | 101 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 24.26 | 97 | 64-120 |
| 1,2-Dichloroethane | 25.00 | 26.24 | 105 | 74-126 |
| Benzene | 25.00 | 26.96 | 108 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 23.17 | 93 | 68-120 |
| Toluene | 25.00 | 25.27 | 101 | 79-120 |
| 1,2-Dibromoethane | 25.00 | 24.66 | 99 | 77-120 |
| Ethylbenzene | 25.00 | 25.78 | 103 | 80-120 |
| m,p-Xylenes | 50.00 | 50.30 | 101 | 80-120 |
| o-Xylene | 25.00 | 23.71 | 95 | 79-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 105 | 74-133 |
| 1,2-Dichloroethane-d4 | 104 | 74-136 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC639809 | Batch#: | 186570 |
| Matrix: | Soil | Analyzed: | 05/15/12 |
| Units: | ug/Kg | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 100 | 74-133 |
| 1,2-Dichloroethane-d4 | 102 | 74-136 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |

ND= Not Detected RL= Reporting Limit Page 1 of 1



| BTXE & Oxygenates | | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | | |
| Field ID: | ZZZZZZZZZZ | Batch#: | 186570 | | | | | |
| MSS Lab ID: | 236121-019 | Sampled: | 05/08/12 | | | | | |
| Matrix: | Soil | Received: | 05/09/12 | | | | | |
| Units: | ug/Kg | Analyzed: | 05/15/12 | | | | | |
| Basis: | as received | - | | | | | | |

Type: Lab ID: MS QC639874 Diln Fac: 0.9766

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <15.31 | 244.1 | 231.5 | 95 | 44-128 |
| MTBE | <1.481 | 48.83 | 43.06 | 88 | 51-120 |
| Isopropyl Ether (DIPE) | <1.263 | 48.83 | 43.49 | 89 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.9521 | 48.83 | 41.82 | 86 | 55-120 |
| 1,2-Dichloroethane | <0.9153 | 48.83 | 43.28 | 89 | 55-121 |
| Benzene | <0.9497 | 48.83 | 50.28 | 103 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.6201 | 48.83 | 41.69 | 85 | 55-120 |
| Toluene | <1.282 | 48.83 | 46.38 | 95 | 54-120 |
| 1,2-Dibromoethane | <0.5891 | 48.83 | 40.58 | 83 | 52-120 |
| Ethylbenzene | <1.179 | 48.83 | 47.30 | 97 | 47-120 |
| m,p-Xylenes | <0.6046 | 97.66 | 90.84 | 93 | 47-120 |
| o-Xylene | <1.104 | 48.83 | 42.04 | 86 | 47-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 100 | 74-136 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |

Type: Lab ID: MSD QC639875 Diln Fac: 1.000

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 250.0 | 248.0 | 99 | 44-128 | 5 | 39 |
| MTBE | 50.00 | 43.70 | 87 | 51-120 | 1 | 32 |
| Isopropyl Ether (DIPE) | 50.00 | 43.15 | 86 | 50-120 | 3 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 50.00 | 42.47 | 85 | 55-120 | 1 | 32 |
| 1,2-Dichloroethane | 50.00 | 46.28 | 93 | 55-121 | 4 | 33 |
| Benzene | 50.00 | 52.95 | 106 | 58-122 | 3 | 37 |
| Methyl tert-Amyl Ether (TAME) | 50.00 | 42.49 | 85 | 55-120 | 0 | 34 |
| Toluene | 50.00 | 49.36 | 99 | 54-120 | 4 | 35 |
| 1,2-Dibromoethane | 50.00 | 43.71 | 87 | 52-120 | 5 | 35 |
| Ethylbenzene | 50.00 | 50.47 | 101 | 47-120 | 4 | 40 |
| m,p-Xylenes | 100.0 | 97.03 | 97 | 47-120 | 4 | 40 |
| o-Xylene | 50.00 | 44.76 | 90 | 47-120 | 4 | 40 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 74-133 |
| | | |
| 1,2-Dichloroethane-d4 | 102 | 74-136 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 103 | 77-130 |



| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Type: | LCS | Diln Fac: | 1.000 | | | | |
| Lab ID: | QC640000 | Batch#: | 186615 | | | | |
| Matrix: | Soil | Analyzed: | 05/16/12 | | | | |
| Units: | ug/Kg | | | | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 125.0 | 110.4 | 88 | 46-135 |
| MTBE | 25.00 | 21.46 | 86 | 62-120 |
| Isopropyl Ether (DIPE) | 25.00 | 23.26 | 93 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 23.28 | 93 | 64-120 |
| 1,2-Dichloroethane | 25.00 | 23.02 | 92 | 74-126 |
| Benzene | 25.00 | 24.33 | 97 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 21.56 | 86 | 68-120 |
| Toluene | 25.00 | 27.19 | 109 | 79-120 |
| 1,2-Dibromoethane | 25.00 | 25.79 | 103 | 77-120 |
| Ethylbenzene | 25.00 | 26.60 | 106 | 80-120 |
| m,p-Xylenes | 50.00 | 51.98 | 104 | 80-120 |
| o-Xylene | 25.00 | 24.17 | 97 | 79-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 96 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 109 | 80-120 |
| Bromofluorobenzene | 105 | 77-130 |

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| BTXE & Oxygenates | | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | | | |
| Lab ID: | QC640001 | Batch#: | 186615 | | | | | |
| Matrix: | Soil | Analyzed: | 05/16/12 | | | | | |
| Units: | ug/Kg | | | | | | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 94 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 110 | 80-120 |
| Bromofluorobenzene | 108 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Type: | LCS | Diln Fac: | 1.000 | | | | |
| Lab ID: | QC640002 | Batch#: | 186616 | | | | |
| Matrix: | Soil | Analyzed: | 05/16/12 | | | | |
| Units: | ug/Kg | | | | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 125.0 | 121.4 | 97 | 46-135 |
| MTBE | 25.00 | 23.13 | 93 | 62-120 |
| Isopropyl Ether (DIPE) | 25.00 | 22.30 | 89 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 22.75 | 91 | 64-120 |
| 1,2-Dichloroethane | 25.00 | 26.42 | 106 | 74-126 |
| Benzene | 25.00 | 28.47 | 114 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 24.19 | 97 | 68-120 |
| Toluene | 25.00 | 26.62 | 106 | 79-120 |
| 1,2-Dibromoethane | 25.00 | 25.15 | 101 | 77-120 |
| Ethylbenzene | 25.00 | 26.87 | 107 | 80-120 |
| m,p-Xylenes | 50.00 | 53.95 | 108 | 80-120 |
| o-Xylene | 25.00 | 25.03 | 100 | 79-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 102 | 77-130 |

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| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | | |
| Lab ID: | QC640003 | Batch#: | 186616 | | | | |
| Matrix: | Soil | Analyzed: | 05/16/12 | | | | |
| Units: | ug/Kg | | | | | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 99 | 74-136 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |

ND= Not Detected RL= Reporting Limit Page 1 of 1



| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Field ID: | CSB2-5 | Batch#: | 186616 | | | | |
| MSS Lab ID: | 236194-008 | Sampled: | 05/10/12 | | | | |
| Matrix: | Soil | Received: | 05/14/12 | | | | |
| Units: | ug/Kg | Analyzed: | 05/16/12 | | | | |
| Basis: | as received | | | | | | |

Type: Lab ID: MS QC640018 Diln Fac: 0.9843

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <15.53 | 246.1 | 199.6 | 81 | 44-128 |
| MTBE | <1.501 | 49.21 | 37.26 | 76 | 51-120 |
| Isopropyl Ether (DIPE) | <1.281 | 49.21 | 36.43 | 74 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.9653 | 49.21 | 36.83 | 75 | 55-120 |
| 1,2-Dichloroethane | <0.9281 | 49.21 | 37.18 | 76 | 55-121 |
| Benzene | <0.9630 | 49.21 | 41.17 | 84 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.6288 | 49.21 | 40.51 | 82 | 55-120 |
| Toluene | <1.299 | 49.21 | 39.42 | 80 | 54-120 |
| 1,2-Dibromoethane | <0.5973 | 49.21 | 35.97 | 73 | 52-120 |
| Ethylbenzene | <1.196 | 49.21 | 40.76 | 83 | 47-120 |
| m,p-Xylenes | <0.6130 | 98.43 | 78.88 | 80 | 47-120 |
| o-Xylene | <1.120 | 49.21 | 36.16 | 73 | 47-120 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 101 | 74-133 | |
| 1,2-Dichloroethane-d4 | 99 | 74-136 | |
| Toluene-d8 | 96 | 80-120 | |
| Bromofluorobenzene | 102 | 77-130 | |

Type: MSD Lab ID: QC640019 Diln Fac: 0.9766

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 244.1 | 226.4 | 93 | 44-128 | 13 | 39 |
| MTBE | 48.83 | 42.60 | 87 | 51-120 | 14 | 32 |
| Isopropyl Ether (DIPE) | 48.83 | 41.76 | 86 | 50-120 | 14 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 48.83 | 42.40 | 87 | 55-120 | 15 | 32 |
| 1,2-Dichloroethane | 48.83 | 44.22 | 91 | 55-121 | 18 | 33 |
| Benzene | 48.83 | 48.95 | 100 | 58-122 | 18 | 37 |
| Methyl tert-Amyl Ether (TAME) | 48.83 | 45.54 | 93 | 55-120 | 12 | 34 |
| Toluene | 48.83 | 47.10 | 96 | 54-120 | 19 | 35 |
| 1,2-Dibromoethane | 48.83 | 42.61 | 87 | 52-120 | 18 | 35 |
| Ethylbenzene | 48.83 | 46.83 | 96 | 47-120 | 15 | 40 |
| m,p-Xylenes | 97.66 | 94.10 | 96 | 47-120 | 18 | 40 |
| o-Xylene | 48.83 | 44.02 | 90 | 47-120 | 20 | 40 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |



| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Field ID: | ZZZZZZZZZZ | Batch#: | 186615 | | | | |
| MSS Lab ID: | 236164-003 | Sampled: | 05/09/12 | | | | |
| Matrix: | Soil | Received: | 05/10/12 | | | | |
| Units: | ug/Kg | Analyzed: | 05/16/12 | | | | |
| Basis: | as received | - | | | | | |

Type: Lab ID: MS QC640055 Diln Fac: 0.9843

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <1.832 | 246.1 | 211.6 | 86 | 44-128 |
| MTBE | <0.1524 | 49.21 | 38.53 | 78 | 51-120 |
| Isopropyl Ether (DIPE) | <0.1994 | 49.21 | 43.75 | 89 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.1466 | 49.21 | 42.36 | 86 | 55-120 |
| 1,2-Dichloroethane | <0.3408 | 49.21 | 43.80 | 89 | 55-121 |
| Benzene | <0.4328 | 49.21 | 43.66 | 89 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.2284 | 49.21 | 38.85 | 79 | 55-120 |
| Toluene | <0.3144 | 49.21 | 47.00 | 95 | 54-120 |
| 1,2-Dibromoethane | <0.2108 | 49.21 | 44.44 | 90 | 52-120 |
| Ethylbenzene | <0.3762 | 49.21 | 46.63 | 95 | 47-120 |
| m,p-Xylenes | <0.8989 | 98.43 | 89.56 | 91 | 47-120 |
| o-Xylene | <0.2687 | 49.21 | 41.16 | 84 | 47-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 108 | 74-133 |
| 1,2-Dichloroethane-d4 | 113 | 74-136 |
| Toluene-d8 | 109 | 80-120 |
| Bromofluorobenzene | 102 | 77-130 |

Type: Lab ID: MSD QC640056 Diln Fac: 0.9823

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 245.6 | 219.1 | 89 | 44-128 | 4 | 39 |
| MTBE | 49.12 | 41.32 | 84 | 51-120 | 7 | 32 |
| Isopropyl Ether (DIPE) | 49.12 | 45.48 | 93 | 50-120 | 4 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 49.12 | 43.25 | 88 | 55-120 | 2 | 32 |
| 1,2-Dichloroethane | 49.12 | 45.82 | 93 | 55-121 | 5 | 33 |
| Benzene | 49.12 | 45.59 | 93 | 58-122 | 5 | 37 |
| Methyl tert-Amyl Ether (TAME) | 49.12 | 41.71 | 85 | 55-120 | 7 | 34 |
| Toluene | 49.12 | 48.07 | 98 | 54-120 | 2 | 35 |
| 1,2-Dibromoethane | 49.12 | 45.93 | 94 | 52-120 | 3 | 35 |
| Ethylbenzene | 49.12 | 49.18 | 100 | 47-120 | 6 | 40 |
| m,p-Xylenes | 98.23 | 92.87 | 95 | 47-120 | 4 | 40 |
| o-Xylene | 49.12 | 44.72 | 91 | 47-120 | 8 | 40 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 110 | 74-133 |
| 1,2-Dichloroethane-d4 | 110 | 74-136 |
| Toluene-d8 | 109 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC640234 | Batch#: | 186670 |
| Matrix: | Soil | Analyzed: | 05/17/12 |
| Units: | ug/Kg | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 1 | L02 | 74-133 |
| 1,2-Dichloroethane-d4 1 | L07 | 74-136 |
| Toluene-d8 1 | 11 | 80-120 |
| Bromofluorobenzene 1 | 108 | 77-130 |

ND= Not Detected RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC640235 | Batch#: | 186670 |
| Matrix: | Soil | Analyzed: | 05/17/12 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 100.0 | 94.61 | 95 | 46-135 |
| MTBE | 20.00 | 18.15 | 91 | 62-120 |
| Isopropyl Ether (DIPE) | 20.00 | 18.70 | 93 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 17.52 | 88 | 64-120 |
| 1,2-Dichloroethane | 20.00 | 20.35 | 102 | 74-126 |
| Benzene | 20.00 | 19.44 | 97 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 17.45 | 87 | 68-120 |
| Toluene | 20.00 | 20.81 | 104 | 79-120 |
| 1,2-Dibromoethane | 20.00 | 21.31 | 107 | 77-120 |
| Ethylbenzene | 20.00 | 20.85 | 104 | 80-120 |
| m,p-Xylenes | 40.00 | 40.45 | 101 | 80-120 |
| o-Xylene | 20.00 | 17.68 | 88 | 79-120 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 104 | 74-133 | |
| 1,2-Dichloroethane-d4 | 105 | 74-136 | |
| Toluene-d8 | 108 | 80-120 | |
| Bromofluorobenzene | 101 | 77-130 | |

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| | BTXE | & Oxygenates | |
|-------------------|--------------------------------|--------------------|--|
| Lab #: Client: | 236194 Impact Environmental | Location: Prep: | 1409-1417 12th St., Oakland EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB7-13 | Basis: | as received |
| MSS Lab ID: | 236194-037 | Batch#: | 186670 |
| Matrix: | Soil | Sampled: | 05/10/12 |
| Units: | ug/Kg | Received: | 05/14/12 |

Type: MS Diln Fac: 0.9225 Lab ID: QC640236 Analyzed: 05/17/12

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <1.625 | 230.6 | 181.0 | 78 | 44-128 |
| MTBE | <0.1352 | 46.13 | 39.81 | 86 | 51-120 |
| Isopropyl Ether (DIPE) | <0.1770 | 46.13 | 42.52 | 92 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.1301 | 46.13 | 42.41 | 92 | 55-120 |
| 1,2-Dichloroethane | <0.3024 | 46.13 | 45.56 | 99 | 55-121 |
| Benzene | <0.3840 | 46.13 | 46.31 | 100 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.2027 | 46.13 | 41.55 | 90 | 55-120 |
| Toluene | <0.2790 | 46.13 | 47.98 | 104 | 54-120 |
| 1,2-Dibromoethane | <0.1871 | 46.13 | 44.56 | 97 | 52-120 |
| Ethylbenzene | <0.3338 | 46.13 | 48.44 | 105 | 47-120 |
| m,p-Xylenes | <0.7976 | 92.25 | 95.20 | 103 | 47-120 |
| o-Xylene | <0.2384 | 46.13 | 44.66 | 97 | 47-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 74-133 |
| 1,2-Dichloroethane-d4 | 112 | 74-136 |
| Toluene-d8 | 109 | 80-120 |
| Bromofluorobenzene | 94 | 77-130 |

Type: MSD Diln Fac: 0.9398 Lab ID: QC640237 Analyzed: 05/18/12

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 235.0 | 208.6 | 89 | 44-128 | 12 | 39 |
| MTBE | 46.99 | 43.35 | 92 | 51-120 | 7 | 32 |
| Isopropyl Ether (DIPE) | 46.99 | 44.76 | 95 | 50-120 | 3 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 46.99 | 45.23 | 96 | 55-120 | 5 | 32 |
| 1,2-Dichloroethane | 46.99 | 46.73 | 99 | 55-121 | 1 | 33 |
| Benzene | 46.99 | 46.91 | 100 | 58-122 | 1 | 37 |
| Methyl tert-Amyl Ether (TAME) | 46.99 | 43.67 | 93 | 55-120 | 3 | 34 |
| Toluene | 46.99 | 49.56 | 105 | 54-120 | 1 | 35 |
| 1,2-Dibromoethane | 46.99 | 48.47 | 103 | 52-120 | 7 | 35 |
| Ethylbenzene | 46.99 | 49.72 | 106 | 47-120 | 1 | 40 |
| m,p-Xylenes | 93.98 | 96.52 | 103 | 47-120 | 0 | 40 |
| o-Xylene | 46.99 | 44.72 | 95 | 47-120 | 2 | 40 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 74-133 |
| 1,2-Dichloroethane-d4 | 109 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 99 | 77-130 |



| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | | |
| Lab ID: | QC640293 | Batch#: | 186686 | | | | |
| Matrix: | Soil | Analyzed: | 05/17/12 | | | | |
| Units: | ug/Kg | | | | | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 74-133 |
| 1,2-Dichloroethane-d4 | 100 | 74-136 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 100 | 77-130 |

ND= Not Detected RL= Reporting Limit

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| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC640294 | Batch#: | 186686 |
| Matrix: | Soil | Analyzed: | 05/17/12 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 100.0 | 104.0 | 104 | 46-135 |
| MTBE | 20.00 | 21.18 | 106 | 62-120 |
| Isopropyl Ether (DIPE) | 20.00 | 20.42 | 102 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 22.44 | 112 | 64-120 |
| 1,2-Dichloroethane | 20.00 | 21.02 | 105 | 74-126 |
| Benzene | 20.00 | 23.18 | 116 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 20.17 | 101 | 68-120 |
| Toluene | 20.00 | 21.68 | 108 | 79-120 |
| 1,2-Dibromoethane | 20.00 | 20.18 | 101 | 77-120 |
| Ethylbenzene | 20.00 | 20.84 | 104 | 80-120 |
| m,p-Xylenes | 40.00 | 43.66 | 109 | 80-120 |
| o-Xylene | 20.00 | 20.16 | 101 | 79-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 74-133 |
| 1,2-Dichloroethane-d4 | 98 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 99 | 77-130 |

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| BTXE & Oxygenates | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | |
| Field ID: | CSB4-5' | Diln Fac: | 1.000 | | | |
| MSS Lab ID: | 236194-017 | Batch#: | 186686 | | | |
| Matrix: | Soil | Sampled: | 05/10/12 | | | |
| Units: | ug/Kg | Received: | 05/14/12 | | | |
| Basis: | as received | | | | | |

Type: Lab ID: MS QC640295 Analyzed: 05/17/12

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <15.34 | 250.0 | 262.1 | 105 | 44-128 |
| MTBE | <1.484 | 50.00 | 47.97 | 96 | 51-120 |
| Isopropyl Ether (DIPE) | <1.266 | 50.00 | 45.31 | 91 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.9539 | 50.00 | 46.25 | 93 | 55-120 |
| 1,2-Dichloroethane | <0.9171 | 50.00 | 48.53 | 97 | 55-121 |
| Benzene | <0.9516 | 50.00 | 51.66 | 103 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.6214 | 50.00 | 46.73 | 93 | 55-120 |
| Toluene | <1.284 | 50.00 | 49.03 | 98 | 54-120 |
| 1,2-Dibromoethane | <0.5902 | 50.00 | 46.11 | 92 | 52-120 |
| Ethylbenzene | <1.181 | 50.00 | 50.14 | 100 | 47-120 |
| m,p-Xylenes | <0.6058 | 100.0 | 96.81 | 97 | 47-120 |
| o-Xylene | <1.106 | 50.00 | 46.15 | 92 | 47-120 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 104 | 74-133 | |
| 1,2-Dichloroethane-d4 | 96 | 74-136 | |
| Toluene-d8 | 97 | 80-120 | |
| Bromofluorobenzene | 104 | 77-130 | |

Type: MSD Lab ID: QC640296 Analyzed: 05/18/12

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|----------|
| tert-Butyl Alcohol (TBA) | 250.0 | 234.7 | 94 | 44-128 | 11 | 39 |
| MTBE | 50.00 | 48.49 | 97 | 51-120 | 1 | 32 |
| Isopropyl Ether (DIPE) | 50.00 | 46.11 | 92 | 50-120 | 2 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 50.00 | 45.34 | 91 | 55-120 | 2 | 32 32 |
| 1,2-Dichloroethane | 50.00 | 49.52 | 99 | 55-121 | 2 | 33 |
| Benzene | 50.00 | 54.87 | 110 | 58-122 | 6 | 37 |
| Methyl tert-Amyl Ether (TAME) | 50.00 | 48.42 | 97 | 55-120 | 4 | 34 |
| Toluene | 50.00 | 50.07 | 100 | 54-120 | 2 | 35 |
| 1,2-Dibromoethane | 50.00 | 46.35 | 93 | 52-120 | 1 | 35 |
| Ethylbenzene | 50.00 | 51.63 | 103 | 47-120 | 3 | 40 |
| m,p-Xylenes | 100.0 | 98.90 | 99 | 47-120 | 2 | 40 |
| o-Xylene | 50.00 | 47.89 | 96 | 47-120 | 4 | 40 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 74-133 |
| 1,2-Dichloroethane-d4 | 95 | 74-136 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 104 | 77-130 |



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC640443 | Batch#: | 186718 |
| Matrix: | Soil | Analyzed: | 05/18/12 |
| Units: | ug/Kg | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate % | %REC | Limits |
|--------------------------|------|--------|
| Dibromofluoromethane 98 | 8 | 74-133 |
| 1,2-Dichloroethane-d4 10 | 02 | 74-136 |
| Toluene-d8 10 | 03 | 80-120 |
| Bromofluorobenzene 10 | 01 | 77-130 |

ND= Not Detected RL= Reporting Limit Page 1 of 1



| | BTXE | & Oxygenates | |
|-------------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Field ID: | CSB8-18 | Batch#: | 186718 |
| MSS Lab ID: | 236194-044 | Sampled: | 05/10/12 |
| Matrix: | Soil | Received: | 05/14/12 |
| Units: | ug/Kg | Analyzed: | 05/19/12 |
| Basis: | as received | | |

MS QC640517 Type: Lab ID: Diln Fac: 0.9470

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <14.33 | 236.7 | 194.1 | 82 | 44-128 |
| MTBE | <1.385 | 47.35 | 38.58 | 81 | 51-120 |
| Isopropyl Ether (DIPE) | <1.182 | 47.35 | 37.37 | 79 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.8908 | 47.35 | 40.83 | 86 | 55-120 |
| 1,2-Dichloroethane | <0.8564 | 47.35 | 39.56 | 84 | 55-121 |
| Benzene | <0.8886 | 47.35 | 45.17 | 95 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.5802 | 47.35 | 38.86 | 82 | 55-120 |
| Toluene | <1.199 | 47.35 | 47.69 | 101 | 54-120 |
| 1,2-Dibromoethane | <0.5512 | 47.35 | 43.05 | 91 | 52-120 |
| Ethylbenzene | <1.103 | 47.35 | 48.92 | 103 | 47-120 |
| m,p-Xylenes | <0.5657 | 94.70 | 94.80 | 100 | 47-120 |
| o-Xylene | <1.033 | 47.35 | 44.61 | 94 | 47-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 99 | 74-133 |
| 1,2-Dichloroethane-d4 | 101 | 74-136 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 101 | 77-130 |

Type: MSD Lab ID: QC640518 Diln Fac: 0.9881

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 247.0 | 217.0 | 88 | 44-128 | 7 | 39 |
| MTBE | 49.41 | 40.79 | 83 | 51-120 | 1 | 32 |
| Isopropyl Ether (DIPE) | 49.41 | 44.48 | 90 | 50-120 | 13 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 49.41 | 42.46 | 86 | 55-120 | 0 | 32 |
| 1,2-Dichloroethane | 49.41 | 37.64 | 76 | 55-121 | 9 | 33 |
| Benzene | 49.41 | 41.85 | 85 | 58-122 | 12 | 37 |
| Methyl tert-Amyl Ether (TAME) | 49.41 | 40.22 | 81 | 55-120 | 1 | 34 |
| Toluene | 49.41 | 45.59 | 92 | 54-120 | 9 | 35 |
| 1,2-Dibromoethane | 49.41 | 40.99 | 83 | 52-120 | 9 | 35 |
| Ethylbenzene | 49.41 | 46.00 | 93 | 47-120 | 10 | 40 |
| m,p-Xylenes | 98.81 | 91.72 | 93 | 47-120 | 8 | 40 |
| o-Xylene | 49.41 | 41.24 | 83 | 47-120 | 12 | 40 |

| Curroa | 2+0 | %REC | Limits |
|-------------------|-------|------|--------|
| Surroga | ale | %REC | |
| Dibromofluoromet | hane | 100 | 74-133 |
| 1,2-Dichloroethan | ne-d4 | 100 | 74-136 |
| Toluene-d8 | | 103 | 80-120 |
| Bromofluorobenze | ne | 104 | 77-130 |



| | BTXE | & Oxygenates | |
|-----------|----------------------|--------------|-----------------------------|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland |
| Client: | Impact Environmental | Prep: | EPA 5030B |
| Project#: | 1409-1417 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC640685 | Batch#: | 186718 |
| Matrix: | Soil | Analyzed: | 05/18/12 |
| Units: | ug/Kg | | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 125.0 | 122.1 | 98 | 46-135 |
| MTBE | 25.00 | 23.17 | 93 | 62-120 |
| Isopropyl Ether (DIPE) | 25.00 | 22.40 | 90 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 24.24 | 97 | 64-120 |
| 1,2-Dichloroethane | 25.00 | 24.25 | 97 | 74-126 |
| Benzene | 25.00 | 26.88 | 108 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 23.38 | 94 | 68-120 |
| Toluene | 25.00 | 27.67 | 111 | 79-120 |
| 1,2-Dibromoethane | 25.00 | 25.93 | 104 | 77-120 |
| Ethylbenzene | 25.00 | 27.69 | 111 | 80-120 |
| m,p-Xylenes | 50.00 | 55.40 | 111 | 80-120 |
| o-Xylene | 25.00 | 26.35 | 105 | 79-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 97 | 74-133 |
| 1,2-Dichloroethane-d4 | 101 | 74-136 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 102 | 77-130 |

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| BTXE & Oxygenates | | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | | | |
| Lab ID: | QC640689 | Batch#: | 186777 | | | | | |
| Matrix: | Soil | Analyzed: | 05/21/12 | | | | | |
| Units: | ug/Kg | | | | | | | |

| Analyte | Result | RL | |
|-------------------------------|--------|-----|--|
| tert-Butyl Alcohol (TBA) | ND | 100 | |
| MTBE | ND | 5.0 | |
| Isopropyl Ether (DIPE) | ND | 5.0 | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 5.0 | |
| 1,2-Dichloroethane | ND | 5.0 | |
| Benzene | ND | 5.0 | |
| Methyl tert-Amyl Ether (TAME) | ND | 5.0 | |
| Toluene | ND | 5.0 | |
| 1,2-Dibromoethane | ND | 5.0 | |
| Ethylbenzene | ND | 5.0 | |
| m,p-Xylenes | ND | 5.0 | |
| o-Xylene | ND | 5.0 | |

| Surrogate % | %REC | Limits |
|--------------------------|------|--------|
| Dibromofluoromethane 10 | 04 | 74-133 |
| 1,2-Dichloroethane-d4 11 | 17 | 74-136 |
| Toluene-d8 11 | 11 | 80-120 |
| Bromofluorobenzene 10 | 09 | 77-130 |

ND= Not Detected
RL= Reporting Limit

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76.0



| | BTXE | & Oxygenates | |
|--------------------------------|---|---------------------------------|---|
| Lab #: Client: Project#: | 236194 Impact Environmental 1409-1417 | Location: Prep: Analysis: | 1409-1417 12th St., Oakland EPA 5030B EPA 8260B |
| Matrix: Units: Diln Fac: | Soil ug/Kg 1.000 | Batch#: Analyzed: | 186777 05/21/12 |

Type: BS Lab ID: QC640690

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 100.0 | 114.2 | 114 | 46-135 |
| MTBE | 20.00 | 19.25 | 96 | 62-120 |
| Isopropyl Ether (DIPE) | 20.00 | 21.29 | 106 | 59-120 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 20.08 | 100 | 64-120 |
| 1,2-Dichloroethane | 20.00 | 20.71 | 104 | 74-126 |
| Benzene | 20.00 | 19.84 | 99 | 78-125 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 17.81 | 89 | 68-120 |
| Toluene | 20.00 | 20.76 | 104 | 79-120 |
| 1,2-Dibromoethane | 20.00 | 20.36 | 102 | 77-120 |
| Ethylbenzene | 20.00 | 20.95 | 105 | 80-120 |
| m,p-Xylenes | 40.00 | 40.20 | 101 | 80-120 |
| o-Xylene | 20.00 | 17.51 | 88 | 79-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 108 | 74-133 |
| 1,2-Dichloroethane-d4 | 116 | 74-136 |
| Toluene-d8 | 111 | 80-120 |
| Bromofluorobenzene | 108 | 77-130 |

Type: BSD Lab ID: QC640691

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 100.0 | 88.32 | 88 | 46-135 | 26 | 36 |
| MTBE | 20.00 | 19.33 | 97 | 62-120 | 0 | 22 |
| Isopropyl Ether (DIPE) | 20.00 | 21.31 | 107 | 59-120 | 0 | 21 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 21.38 | 107 | 64-120 | 6 | 20 |
| 1,2-Dichloroethane | 20.00 | 20.26 | 101 | 74-126 | 2 | 20 |
| Benzene | 20.00 | 19.59 | 98 | 78-125 | 1 | 20 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 17.05 | 85 | 68-120 | 4 | 20 |
| Toluene | 20.00 | 20.77 | 104 | 79-120 | 0 | 20 |
| 1,2-Dibromoethane | 20.00 | 19.60 | 98 | 77-120 | 4 | 20 |
| Ethylbenzene | 20.00 | 20.67 | 103 | 80-120 | 1 | 20 |
| m,p-Xylenes | 40.00 | 38.71 | 97 | 80-120 | 4 | 20 |
| o-Xylene | 20.00 | 17.48 | 87 | 79-120 | 0 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 106 | 74-133 |
| 1,2-Dichloroethane-d4 | 108 | 74-136 |
| Toluene-d8 | 108 | 80-120 |
| Bromofluorobenzene | 109 | 77-130 |



| BTXE & Oxygenates | | | | | | | |
|-------------------|----------------------|-----------|-----------------------------|--|--|--|--|
| Lab #: | 236194 | Location: | 1409-1417 12th St., Oakland | | | | |
| Client: | Impact Environmental | Prep: | EPA 5030B | | | | |
| Project#: | 1409-1417 | Analysis: | EPA 8260B | | | | |
| Field ID: | ZZZZZZZZZZ | Diln Fac: | 0.9728 | | | | |
| MSS Lab ID: | 236326-001 | Batch#: | 186777 | | | | |
| Matrix: | Soil | Sampled: | 05/17/12 | | | | |
| Units: | ug/Kg | Received: | 05/18/12 | | | | |
| Basis: | as received | Analyzed: | 05/22/12 | | | | |

Type: MS Lab ID: QC640765

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | <1.726 | 243.2 | 260.9 | 107 | 44-128 |
| MTBE | <0.1436 | 48.64 | 45.19 | 93 | 51-120 |
| Isopropyl Ether (DIPE) | <0.1879 | 48.64 | 49.57 | 102 | 50-120 |
| Ethyl tert-Butyl Ether (ETBE) | <0.1381 | 48.64 | 48.45 | 100 | 55-120 |
| 1,2-Dichloroethane | <0.3211 | 48.64 | 51.57 | 106 | 55-121 |
| Benzene | <0.4077 | 48.64 | 48.33 | 99 | 58-122 |
| Methyl tert-Amyl Ether (TAME) | <0.2152 | 48.64 | 45.30 | 93 | 55-120 |
| Toluene | <0.2962 | 48.64 | 47.34 | 97 | 54-120 |
| 1,2-Dibromoethane | <0.1986 | 48.64 | 46.20 | 95 | 52-120 |
| Ethylbenzene | <0.3544 | 48.64 | 46.90 | 96 | 47-120 |
| m,p-Xylenes | <0.8468 | 97.28 | 89.11 | 92 | 47-120 |
| o-Xylene | <0.2531 | 48.64 | 41.75 | 86 | 47-120 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 108 | 74-133 | |
| 1,2-Dichloroethane-d4 | 120 | 74-136 | |
| Toluene-d8 | 105 | 80-120 | |
| Bromofluorobenzene | 102 | 77-130 | |

Type: MSD Lab ID: QC640766

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 243.2 | 223.6 | 92 | 44-128 | 15 | 39 |
| MTBE | 48.64 | 45.31 | 93 | 51-120 | 0 | 32 |
| Isopropyl Ether (DIPE) | 48.64 | 49.27 | 101 | 50-120 | 1 | 32 |
| Ethyl tert-Butyl Ether (ETBE) | 48.64 | 48.78 | 100 | 55-120 | 1 | 32 |
| 1,2-Dichloroethane | 48.64 | 49.59 | 102 | 55-121 | 4 | 33 |
| Benzene | 48.64 | 48.41 | 100 | 58-122 | 0 | 37 |
| Methyl tert-Amyl Ether (TAME) | 48.64 | 46.44 | 95 | 55-120 | 2 | 34 |
| Toluene | 48.64 | 47.38 | 97 | 54-120 | 0 | 35 |
| 1,2-Dibromoethane | 48.64 | 45.65 | 94 | 52-120 | 1 | 35 |
| Ethylbenzene | 48.64 | 46.72 | 96 | 47-120 | 0 | 40 |
| m,p-Xylenes | 97.28 | 89.97 | 92 | 47-120 | 1 | 40 |
| o-Xylene | 48.64 | 41.22 | 85 | 47-120 | 1 | 40 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 74-133 |
| 1,2-Dichloroethane-d4 | 117 | 74-136 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 99 | 77-130 |



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

Tel: 510-703-5420 Fax: 510-713-7790

RE: 1409-1417 12th St., Oakland

Work Order No.: 1208254

Dear Joseph Cotton:

Total Page Count: 16

Torrent Laboratory, Inc. received 6 sample(s) on August 29, 2012 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.

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

Patti Sandrock
QA Officer

September 06, 2012

Date

Page 1 of 16



Date: 9/6/2012

Client: Impact Environmental Services **Project:** 1409-1417 12th St.,Oakland

Work Order: 1208254

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Total Page Count: 16 Page 2 of 16

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com



All compounds were non-detectable for this sample.

Sample Result Summary

Joseph Cotton Report prepared for: Date Received: 08/29/12 Impact Environmental Services Date Reported: 09/06/12 CSV-1 1208254-001A Parameters: **Analysis** <u>DF</u> MDL **PQL** Results **Method** <u>uq/m3</u> All compounds were non-detectable for this sample. CSV-2 1208254-002A Analysis Method Parameters: <u>DF</u> <u>MDL</u> **PQL** Results ug/m3 All compounds were non-detectable for this sample. CSV-3 1208254-003A Parameters: DF MDL **PQL** Results <u>Analysis</u> **Method** <u>ug/m3</u> All compounds were non-detectable for this sample. CSV-4 1208254-004A <u>MDL</u> **PQL** Parameters: <u>Analysis</u> <u>DF</u> Results Method ug/m3 All compounds were non-detectable for this sample. CSV-6 1208254-005A <u>DF</u> MDL <u>PQL</u> Parameters: **Analysis** Results Method ug/m3

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com

Total Page Count: 16 Page 3 of 16



Sample Result Summary

Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

CSV-7 1208254-006A

<u>Parameters:</u> <u>Analysis</u> <u>DF</u> <u>MDL</u> <u>PQL</u> <u>Results</u> <u>ug/m3</u>

All compounds were non-detectable for this sample.

Total Page Count: 16 Page 4 of 16



Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208254-001A

Air

Client Sample ID: CSV-1

Project Name/Location: 1409-1417 12th St.,Oakland

Project Number: Site Closure verification Soil Vapor

Date/Time Sampled: 08/25/12 / 16:24

 Canister/Tube ID:
 1223
 Received PSI :
 14.7

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: CSV-1

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1,1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 101 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA |

Total Page Count: 16 Page 5 of 16



Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208254-002A

Air

Client Sample ID: CSV-2

Project Name/Location: 1409-1417 12th St.,Oakland

Project Number: Site Closure verification Soil Vapor

Date/Time Sampled: 08/25/12 / 17:32

 Canister/Tube ID:
 527
 Received PSI :
 14.9

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: CSV-2

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1.1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 101 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA |

Total Page Count: 16 Page 6 of 16



Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208254-003A

Air

Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

Client Sample ID: CSV-3

Project Name/Location: 1409-1417 12th St.,Oakland

Project Number: Site Closure verification Soil Vapor

Date/Time Sampled: 08/25/12 / 18:34

 Canister/Tube ID:
 1238
 Received PSI :
 14.9

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: CSV-3

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1.1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 107 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA |

Total Page Count: 16 Page 7 of 16



Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208254-004A

Air

Client Sample ID: CSV-4

Project Name/Location: 1409-1417 12th St.,Oakland

Project Number: Site Closure verification Soil Vapor

Date/Time Sampled: 08/25/12 / 16:52

 Canister/Tube ID:
 1417
 Received PSI :
 14.8

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: CSV-4

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1.1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 107 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA |

Total Page Count: 16 Page 8 of 16



Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208254-005A

Air

Client Sample ID: CSV-6

Project Name/Location: 1409-1417 12th St.,Oakland

Project Number: Site Closure verification Soil Vapor

Date/Time Sampled: 08/25/12 / 16:46

 Canister/Tube ID:
 1419
 Received PSI :
 14.7

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: CSV-6

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1.1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 107 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA |

Total Page Count: 16 Page 9 of 16



Report prepared for: Joseph Cotton Date Received: 08/29/12

Impact Environmental Services Date Reported: 09/06/12

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208254-006A

Air

Client Sample ID: CSV-7

Project Name/Location: 1409-1417 12th St.,Oakland

Project Number: Site Closure verification Soil Vapor

Date/Time Sampled: 08/25/12 / 18:08

 Canister/Tube ID:
 1251
 Received PSI :
 14.9

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: CSV-7

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1.1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 106 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA |

Total Page Count: 16 Page 10 of 16



MB Summary Report

Work Order: Prep Method: NA Prep Date: NA Prep Batch: NA 1208254 Matrix: Air Analytical ETO15 Analyzed Date: 08/30/12 Analytical 411297 Method: Batch: Units: ppbv

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|--------------------------------|-------|-------|--------------------------|------------------|
| Dichlorodifluoromethane | 0.30 | 1.00 | ND | |
| 1,1-Difluoroethane | 0.18 | 0.500 | ND | |
| 1,2-Dichlorotetrafluoroethane | 0.70 | 2.00 | ND | |
| Chloromethane | 0.15 | 0.500 | ND | |
| Vinyl Chloride | 0.26 | 1.00 | ND | |
| 1,3-Butadiene | 0.20 | 0.500 | ND | |
| Bromomethane | 0.18 | 0.500 | ND | |
| Chloroethane | 0.19 | 0.500 | ND | |
| Trichlorofluoromethane | 0.32 | 1.00 | ND | |
| 1,1-Dichloroethene | 0.15 | 0.500 | ND | |
| Freon 113 | 0.11 | 0.500 | ND | |
| Carbon Disulfide | 0.26 | 1.00 | ND | |
| 2-Propanol (Isopropyl Alcohol) | 0.39 | 4.00 | ND | |
| Methylene Chloride | 0.17 | 0.500 | ND | |
| Acetone | 0.37 | 4.00 | ND | |
| trans-1,2-Dichloroethene | 0.16 | 0.500 | ND | |
| Hexane | 0.15 | 0.500 | ND | |
| MTBE | 0.24 | 0.500 | ND | |
| tert-Butanol | 0.22 | 2.00 | ND | |
| Diisopropyl ether (DIPE) | 0.21 | 0.500 | ND | |
| 1,1-Dichloroethane | 0.18 | 0.500 | ND | |
| ETBE | 0.16 | 0.500 | ND | |
| cis-1,2-Dichloroethene | 0.13 | 0.500 | ND | |
| Chloroform | 0.25 | 1.00 | ND | |
| Vinyl Acetate | 0.16 | 0.500 | ND | |
| Carbon Tetrachloride | 0.14 | 0.500 | ND | |
| 1,1,1-Trichloroethane | 0.15 | 0.500 | ND | |
| 2-Butanone (MEK) | 0.21 | 0.500 | ND | |
| Ethyl Acetate | 0.21 | 0.500 | ND | |
| Tetrahydrofuran | 0.10 | 0.500 | ND | |
| Benzene | 0.21 | 0.500 | ND | |
| TAME | 0.086 | 0.500 | ND | |
| 1,2-Dichloroethane (EDC) | 0.24 | 0.500 | ND | |
| Trichloroethylene | 0.26 | 1.00 | ND | |
| 1,2-Dichloropropane | 0.29 | 1.00 | ND | |
| Bromodichloromethane | 0.13 | 0.500 | ND | |
| 1,4-Dioxane | 0.35 | 1.00 | ND | |
| trans-1,3-Dichloropropene | 0.19 | 0.500 | ND | |
| Toluene | 0.25 | 0.500 | ND | |
| 4-Methyl-2-Pentanone (MIBK) | 0.21 | 0.500 | ND | |
| cis-1,3-Dichloropropene | 0.25 | 0.500 | ND | |

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Total Page Count: 16 Page 11 of 16



TPH-Gasoline

MB Summary Report

| Work Order: | 1208254 | Prep | Method: | NA | Prep | Date: | NA | Prep Batch: | NA |
|--------------------|----------|----------------|---------|--------------------------|------------------|------------|----------|----------------------|--------|
| Matrix: | Air | Analy Metho | | ETO15 | Anal | yzed Date: | 08/30/12 | Analytical Batch: | 411297 |
| Units: | ppbv | Metric | , | | | | | Baton. | |
| Parameters | | MDL | PQL | Method Blank Conc. | Lab Qualifier | | | | |
| Tetrachloroethyle | ene | 0.13 | 0.500 | ND | | | | | |
| 1,1,2-Trichloroeth | nane | 0.17 | 0.500 | ND | | | | | |
| Dibromochlorome | ethane | 0.20 | 0.500 | ND | | | | | |
| 1,2-Dibromoetha | ne (EDB) | 0.27 | 1.00 | ND | | | | | |
| 2-Hexanone | | 0.27 | 1.00 | ND | | | | | |
| Ethyl Benzene | | 0.23 | 0.500 | ND | | | | | |
| Chlorobenzene | | 0.15 | 0.500 | ND | | | | | |
| 1,1,1,2-Tetrachlo | roethane | 0.15 | 0.500 | ND | | | | | |
| m,p-Xylene | | 0.38 | 1.00 | ND | | | | | |
| o-Xylene | | 0.19 | 0.500 | ND | | | | | |
| Styrene | | 0.16 | 0.500 | ND | | | | | |
| Bromoform | | 0.11 | 0.500 | ND | | | | | |
| 1,1,2,2-Tetrachlo | roethane | 0.10 | 0.500 | ND | | | | | |
| 4-Ethyl Toluene | | 0.17 | 0.500 | ND | | | | | |
| 1,3,5-Trimethylbe | enzene | 0.15 | 0.500 | ND | | | | | |
| 1,2,4-Trimethylbe | enzene | 0.14 | 0.500 | ND | | | | | |
| 1,4-Dichlorobenz | ene | 0.11 | 0.500 | ND | | | | | |
| 1,3-Dichlorobenz | ene | 0.14 | 0.500 | ND | | | | | |
| Benzyl Chloride | | 0.12 | 0.500 | ND | | | | | |
| 1,2-Dichlorobenz | ene | 0.15 | 0.500 | ND | | | | | |
| Hexachlorobutad | iene | 0.22 | 0.500 | ND | | | | | |
| 1,2,4-Trichlorobe | nzene | 0.46 | 1.00 | ND | | | | | |
| Naphthalene | | 0.28 | 1.00 | ND | | | | | |
| (S) 4-Bromofluoro | obenzene | | | 102 | | | | | |
| Work Order: | 1208254 | Prep | Method: | NA | Prep | Date: | NA | Prep Batch: | NA |
| Matrix: | Air | Analy | | ETO3 | Anal | yzed Date: | 08/31/12 | Analytical | 411301 |
| Units: | ppbv | Metho | od: | | | | | Batch: | |
| Parameters | | MDL | PQL | Method Blank Conc. | Lab Qualifier | | | | |

100

ND

Total Page Count: 16 Page 12 of 16



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| Work Order: | 1208254 | Prep Method: | NA | Prep Date: | NA | Prep Batch: | NA | |
|-------------|---------|--------------|-------|----------------|----------|-------------|--------|--|
| Matrix: | Air | Analytical | ETO15 | Analyzed Date: | 08/30/12 | Analytical | 411297 | |
| Units: | ppbv | Method: | | | | Batch: | | |

| Parameters | | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|--------------------|---------|------|-------------|--------------------------|----------------|-------------------|--------------------|-------------------|-------------------------|-----------------|------------------|
| 1,1-Dichloroethene |) | 0.15 | 0.500 | ND | 20 | 91.3 | 102 | 10.9 | 65 - 135 | 30 | |
| Benzene | | 0.21 | 0.500 | ND | 20 | 103 | 105 | 1.35 | 65 - 135 | 30 | |
| Trichloroethylene | | 0.26 | 1.00 | ND | 20 | 101 | 105 | 4.09 | 65 - 135 | 30 | |
| Toluene | | 0.25 | 0.500 | ND | 20 | 103 | 106 | 2.35 | 65 - 135 | 30 | |
| Chlorobenzene | | 0.15 | 0.500 | ND | 20 | 101 | 101 | 0.000 | 65 - 135 | 30 | |
| (S) 4-Bromofluorok | penzene | | | ND | 20 | 105 | 105 | | 65 - 135 | | |
| Work Order: | 1208254 | | Prep Method | d: NA | | Prep Da | te: | NA | Prep Bat | ch: NA | |
| Matrix: | Air | | Analytical | ETO3 | | Analyze | d Date: | 08/31/12 | Analytica | al 4113 | 301 |

| Work Order: | 1208254 | Prep Method: | NA | Prep Date: | NA | Prep Batch: | NA |
|-------------|---------|-----------------------|------|----------------|----------|----------------------|--------|
| Matrix: | Air | Analytical Method: | ETO3 | Analyzed Date: | 08/31/12 | Analytical Batch: | 411301 |
| Units: | ppbv | wethou. | | | | Daton. | |
| | | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|--------------|-----|-----|--------------------------|----------------|-------------------|--------------------|-------------------|-------------------------|-----------------|------------------|
| TPH-Gasoline | 50 | 100 | ND | 500 | 111 | 91.4 | 19.8 | 50 - 150 | 30 | |

Total Page Count: 16 Page 13 of 16



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg.m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

- B Indicates when the anlayte is found in the associated method or preparation blank
- **D** Surrogate is not recoverable due to the necessary dilution of the sample
- E Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- NR Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case parrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Impact Environmental Services Date and Time Received: 8/29/2012 14:16

Project Name: 1409-1417 12th St., Oakland Received By: navin

Work Order No.: 1208254 Physically Logged By: lorna

Checklist Completed By: lorna

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? <u>Yes</u>

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? <u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?

Not Present

Shipping Container/Cooler In Good Condition? <u>Yes</u>

Samples in proper container/bottle? Yes

Samples containers intact? Yes

Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? <u>Yes</u>

Container/Temp Blank temperature in compliance? <u>No</u> Temperature: °C

Water-VOA vials have zero headspace? No VOA vials submitted

Water-pH acceptable upon receipt? N/A

pH Checked by: n/a pH Adjusted by: n/a



| Torrent LABORATORY, INC. | Milpitas, CA 95035 Phone: 408.263.525 FAX: 408.263.8293 www.torrentlab.com | 8 | (N | | | - | | - | - | ODY LAB US | E ONLY • | | 8 WORK ORDER NO 0 8 2 5 4 |
|---|---|-----------|--------------|-----------|-----------------------------|---------|-----------|-----------|----------|---------------|-------------|-------------|------------------------------|
| Company Name: IMPACT ENVIRO | NMENTAL | | | Env. | H 🔲 | Food 🔲 | Special | Locatio | n of Sar | mpling: 14 | 109-1417 12 | TH ST., C | OAKLAND |
| Address: 39120 ARGONAUT WAY, #22 | 3 | | | | | Purpos | se: SI7 | TE CLO | SURE | VERIFIC | CATION SO | OIL VAPO |)R |
| City: CA | State: CA | Zip | Code: 94 | 538 | | Specia | al Instru | uctions / | Comme | nts: | | | |
| Telephone: 510-703-5420 | FAX: | | | | | | | | | | | | |
| REPORT TO: JOSEPH COTTON | SAMPLER: JOSEP | н сотт | ON | | | P.O. # | : | | EMAIL | JAC2 | 1462@A | OL.CO | Μ . |
| TURNAROUND TIME: | SAMPLE TYPE: | | REPORT | FORMAT: | જ | | | | | | | | |
| 10 Work Days 4 Work Days 1 Work Day 7 Work Days 3 Work Days Noon - Not 5 Work Days 2 - 8 Hour | Day Waste Water Ground Water | Air Other | QC Le | | TO-MT015 (TPHG BTEX&MTBE | | | | | | | | ANALYSIS REQUESTED |
| LAB ID CANISTER I.D. CLIENT'S SAMPLE I.E | DATE / TIME SAMPLED | MATRIX | # OF CONT | CONT TYPE | TO-1 | | | | | | | | REMARKS |
| _DO(A 1223 CSV-1 | 8-25-12 4:24pm | Vapor | 1 | Summa | ✓ | | | | | | | | |
| 002A 527 CSV-2 | 8-25-12 5:32pm | Vapor | 1 | Summa | 1 | | , | | | | | | |
| -003A 1238 CSV-3 | 8-25-12 6:34pm | Vapor | 1 | Summa | 1 | | | | | | | | |
| -004A 1417 CSV-4 | 8-25-12 4:52pm | Vapor | 1 | Summa | 1 | | | | | | | | |
| -005/1 1419 CSV-6 | 8-25-12 4:46pm | Vapor | 1 | Summa | 1 | | | | | | | | |
| _006A 1251 CSV-7 | 8-25-12 6:08pm | Vapor | 1 | Summa | ✓ | | | | | | | | |
| | | | | | | | | | | | | | |
| ************************************** | | , | | | | | | | | * | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Reillinguished By: Print: JOSEPH COTTO | Date: | -12 | Time: 2:0 | 6 PM | 90 | ved By: | 1/00 | (asi | 10, | IAYIN | 8-2 | 9-12 | Time: 2:16 P.m. |
| 2 Relinquished By: Print: | Date: | | Time: | | | ved By: | | | Print: | | Date: | | Time: |
| Were Samples Received in Good Condition? | | | _ | es No | | | ment | 2/ | | Temn | Sample sea | als intact? | Yes NO NO |

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Total Page Count: 16 Page 16 of 16



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

Tel: 510-703-5420 Fax: 510-713-7790

RE: 1409-1417 12th St Oakland

Work Order No.: 1208267

Dear Joseph Cotton:

Torrent Laboratory, Inc. received 1 sample(s) on August 30, 2012 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.

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

Patti Sandrock
QA Officer

September 06, 2012

Date

Total Page Count: 10 Page 1 of 10



Date: 9/6/2012

Client: Impact Environmental Services **Project:** 1409-1417 12th St Oakland

Work Order: 1208267

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Total Page Count: 10 Page 2 of 10



CSV-5

Sample Result Summary

Report prepared for: Joseph Cotton Date Received: 08/30/12

Impact Environmental Services Date Reported: 09/06/12

1208267-001A

<u>Parameters:</u> <u>Analysis</u> <u>DF</u> <u>MDL</u> <u>PQL</u> <u>Results</u> <u>ug/m3</u>

All compounds were non-detectable for this sample.

Total Page Count: 10 Page 3 of 10



Report prepared for: Joseph Cotton Date Received: 08/30/12

Impact Environmental Services Date Reported: 09/06/12

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

1208267-001A

Air

Client Sample ID: CSV-5

Project Name/Location: 1409-1417 12th St Oakland

Project Number: Site closure Verification

Date/Time Sampled: 08/29/12 / 18:00

 Canister/Tube ID:
 1250
 Received PSI :
 14.6

 Collection Volume (L):
 0.00
 Corrected PSI :
 0.0

Tag Number: 12th St Oakland

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| 1.1-Difluoroethane | ETO15 | NA | 08/30/12 | 1 | 0.50 | 27 | ND | ND | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch |
|--------------------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|
| MTBE | ETO15 | NA | 08/30/12 | 1 | 0.87 | 1.8 | ND | ND | | 411297 | NA |
| Benzene | ETO15 | NA | 08/30/12 | 1 | 0.68 | 1.6 | ND | ND | | 411297 | NA |
| Toluene | ETO15 | NA | 08/30/12 | 1 | 0.95 | 1.9 | ND | ND | | 411297 | NA |
| Ethyl Benzene | ETO15 | NA | 08/30/12 | 1 | 1.0 | 2.2 | ND | ND | | 411297 | NA |
| m,p-Xylene | ETO15 | NA | 08/30/12 | 1 | 1.6 | 4.3 | ND | ND | | 411297 | NA |
| o-Xylene | ETO15 | NA | 08/30/12 | 1 | 0.82 | 2.2 | ND | ND | | 411297 | NA |
| (S) 4-Bromofluorobenzene | ETO15 | NA | 08/30/12 | 1 | 65 | 135 | 108 % | | | 411297 | NA |

| Parameters: | Analysis Method | Prep Date | Date Analyzed | DF | MDL ug/m3 | PQL ug/m3 | Results ug/m3 | Results ppbv | Lab Qualifier | Analytical Batch | Prep Batch | Ī |
|--------------|--------------------|--------------|------------------|----|--------------|--------------|------------------|-----------------|------------------|---------------------|---------------|---|
| TPH-Gasoline | ETO3 | NA | 08/31/12 | 1 | 180 | 350 | ND | ND | | 411301 | NA | • |

Total Page Count: 10 Page 4 of 10



MB Summary Report

Work Order: Prep Method: NA Prep Date: NA Prep Batch: NA 1208267 Matrix: Air Analytical ETO15 Analyzed Date: 08/30/12 Analytical 411297 Method: Batch: Units: ppbv

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier | |
|--------------------------------|-------|-------|--------------------------|------------------|--|
| Dichlorodifluoromethane | 0.30 | 1.00 | ND | | |
| 1,1-Difluoroethane | 0.18 | 0.500 | ND | | |
| 1,2-Dichlorotetrafluoroethane | 0.70 | 2.00 | ND | | |
| Chloromethane | 0.15 | 0.500 | ND | | |
| Vinyl Chloride | 0.26 | 1.00 | ND | | |
| 1,3-Butadiene | 0.20 | 0.500 | ND | | |
| Bromomethane | 0.18 | 0.500 | ND | | |
| Chloroethane | 0.19 | 0.500 | ND | | |
| Trichlorofluoromethane | 0.32 | 1.00 | ND | | |
| 1,1-Dichloroethene | 0.15 | 0.500 | ND | | |
| Freon 113 | 0.11 | 0.500 | ND | | |
| Carbon Disulfide | 0.26 | 1.00 | ND | | |
| 2-Propanol (Isopropyl Alcohol) | 0.39 | 4.00 | ND | | |
| Methylene Chloride | 0.17 | 0.500 | ND | | |
| Acetone | 0.37 | 4.00 | ND | | |
| trans-1,2-Dichloroethene | 0.16 | 0.500 | ND | | |
| Hexane | 0.15 | 0.500 | ND | | |
| MTBE | 0.24 | 0.500 | ND | | |
| tert-Butanol | 0.22 | 2.00 | ND | | |
| Diisopropyl ether (DIPE) | 0.21 | 0.500 | ND | | |
| 1,1-Dichloroethane | 0.18 | 0.500 | ND | | |
| ETBE | 0.16 | 0.500 | ND | | |
| cis-1,2-Dichloroethene | 0.13 | 0.500 | ND | | |
| Chloroform | 0.25 | 1.00 | ND | | |
| Vinyl Acetate | 0.16 | 0.500 | ND | | |
| Carbon Tetrachloride | 0.14 | 0.500 | ND | | |
| 1,1,1-Trichloroethane | 0.15 | 0.500 | ND | | |
| 2-Butanone (MEK) | 0.21 | 0.500 | ND | | |
| Ethyl Acetate | 0.21 | 0.500 | ND | | |
| Tetrahydrofuran | 0.10 | 0.500 | ND | | |
| Benzene | 0.21 | 0.500 | ND | | |
| TAME | 0.086 | 0.500 | ND | | |
| 1,2-Dichloroethane (EDC) | 0.24 | 0.500 | ND | | |
| Trichloroethylene | 0.26 | 1.00 | ND | | |
| 1,2-Dichloropropane | 0.29 | 1.00 | ND | | |
| Bromodichloromethane | 0.13 | 0.500 | ND | | |
| 1,4-Dioxane | 0.35 | 1.00 | ND | | |
| trans-1,3-Dichloropropene | 0.19 | 0.500 | ND | | |
| Toluene | 0.25 | 0.500 | ND | | |
| 4-Methyl-2-Pentanone (MIBK) | 0.21 | 0.500 | ND | | |
| cis-1,3-Dichloropropene | 0.25 | 0.500 | ND | | |

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TPH-Gasoline

MB Summary Report

| | | | | in D Gai | illial y IX | , po . t | | | |
|--------------------|----------|-------|---------|--------------------------|------------------|-----------------|----------|-------------|--------|
| Work Order: | 1208267 | Prep | Method: | NA | Prep | Date: | NA | Prep Batch: | NA |
| Matrix: | Air | Analy | | ETO15 | Anal | yzed Date: | 08/30/12 | Analytical | 411297 |
| Units: | ppbv | Metho | od: | | | | | Batch: | |
| Parameters | | MDL | PQL | Method Blank Conc. | Lab Qualifier | | | | |
| Tetrachloroethyle | ne | 0.13 | 0.500 | ND | • | | | | |
| 1,1,2-Trichloroeth | nane | 0.17 | 0.500 | ND | | | | | |
| Dibromochlorome | ethane | 0.20 | 0.500 | ND | | | | | |
| 1,2-Dibromoethar | ne (EDB) | 0.27 | 1.00 | ND | | | | | |
| 2-Hexanone | | 0.27 | 1.00 | ND | | | | | |
| Ethyl Benzene | | 0.23 | 0.500 | ND | | | | | |
| Chlorobenzene | | 0.15 | 0.500 | ND | | | | | |
| 1,1,1,2-Tetrachlor | roethane | 0.15 | 0.500 | ND | | | | | |
| m,p-Xylene | | 0.38 | 1.00 | ND | | | | | |
| o-Xylene | | 0.19 | 0.500 | ND | | | | | |
| Styrene | | 0.16 | 0.500 | ND | | | | | |
| Bromoform | | 0.11 | 0.500 | ND | | | | | |
| 1,1,2,2-Tetrachlor | roethane | 0.10 | 0.500 | ND | | | | | |
| 4-Ethyl Toluene | | 0.17 | 0.500 | ND | | | | | |
| 1,3,5-Trimethylbe | enzene | 0.15 | 0.500 | ND | | | | | |
| 1,2,4-Trimethylbe | enzene | 0.14 | 0.500 | ND | | | | | |
| 1,4-Dichlorobenze | ene | 0.11 | 0.500 | ND | | | | | |
| 1,3-Dichlorobenze | ene | 0.14 | 0.500 | ND | | | | | |
| Benzyl Chloride | | 0.12 | 0.500 | ND | | | | | |
| 1,2-Dichlorobenze | ene | 0.15 | 0.500 | ND | | | | | |
| Hexachlorobutadi | iene | 0.22 | 0.500 | ND | | | | | |
| 1,2,4-Trichlorober | nzene | 0.46 | 1.00 | ND | | | | | |
| Naphthalene | | 0.28 | 1.00 | ND | | | | | |
| (S) 4-Bromofluoro | obenzene | | | 102 | | | | | |
| Work Order: | 1208267 | Prep | Method: | NA | Prep | Date: | NA | Prep Batch: | NA |
| Matrix: | Air | Analy | | ETO3 | Anal | yzed Date: | 08/31/12 | Analytical | 411301 |
| Units: | ppbv | Metho | od: | | | | | Batch: | |
| Parameters | | MDL | PQL | Method Blank Conc. | Lab Qualifier | | | | |

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ND

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LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| Work Order: | 1208267 | Prep Method: | NA | Prep Date: | NA | Prep Batch: | NA | |
|-------------|---------|--------------|-------|----------------|----------|-------------|--------|--|
| Matrix: | Air | Analytical | ETO15 | Analyzed Date: | 08/30/12 | Analytical | 411297 | |
| Units: | ppbv | Method: | | | | Batch: | | |

| Parameters | | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|-------------------|---------|------|-------------|--------------------------|----------------|-------------------|--------------------|-------------------|-------------------------|-----------------|------------------|
| 1,1-Dichloroethen | е | 0.15 | 0.500 | ND | 20 | 91.3 | 102 | 10.9 | 65 - 135 | 30 | |
| Benzene | | 0.21 | 0.500 | ND | 20 | 103 | 105 | 1.35 | 65 - 135 | 30 | |
| Trichloroethylene | | 0.26 | 1.00 | ND | 20 | 101 | 105 | 4.09 | 65 - 135 | 30 | |
| Toluene | | 0.25 | 0.500 | ND | 20 | 103 | 106 | 2.35 | 65 - 135 | 30 | |
| Chlorobenzene | | 0.15 | 0.500 | ND | 20 | 101 | 101 | 0.000 | 65 - 135 | 30 | |
| (S) 4-Bromofluoro | benzene | | | ND | 20 | 105 | 105 | | 65 - 135 | | |
| Work Order: | 1208267 | | Prep Method | d: NA | | Prep Da | te: | NA | Prep Bat | ch: NA | |
| Matrix: | Air | | Analytical | ETO3 | | Analyze | d Date: | 08/31/12 | Analytica | al 4113 | 301 |

| Work Order: | 1208267 | Prep Method: | NA | Prep Date: | NA | Prep Batch: | NA |
|-------------|---------|-----------------------|------|----------------|----------|-------------------|--------|
| Matrix: | Air | Analytical Method: | ETO3 | Analyzed Date: | 08/31/12 | Analytical Batch: | 411301 |
| Units: | ppbv | Metriou. | | | | Daton. | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|--------------|-----|-----|--------------------------|----------------|-------------------|--------------------|-------------------|-------------------------|-----------------|------------------|
| TPH-Gasoline | 50 | 100 | ND | 500 | 111 | 91.4 | 19.8 | 50 - 150 | 30 | |

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Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg.m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

- B Indicates when the anlayte is found in the associated method or preparation blank
- **D** Surrogate is not recoverable due to the necessary dilution of the sample
- E Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- NR Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case parrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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Sample Receipt Checklist

Client Name: Impact Environmental Services Date and Time Received: 8/30/2012 18:30

Project Name: 1409-1417 12th St Oakland Received By: navin

Work Order No.: 1208267 Physically Logged By: lorna

Checklist Completed By: lorna

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? <u>Yes</u>

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? <u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?

Not Present

Shipping Container/Cooler In Good Condition? <u>Yes</u>

Samples in proper container/bottle? <u>Yes</u>

Samples containers intact? Yes

Sufficient sample volume for indicated test? <u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? No Temperature: °C

Water-VOA vials have zero headspace? No VOA vials submitted

Water-pH acceptable upon receipt? N/A

pH Checked by: n/a pH Adjusted by: n/a



| /≜ Torrent | Milpitas, CA 95035 Phone: 408.263.52 | 5 | | (| H | N۱ | OF | CL | JST | ODY | • | | LAE | WORK ORDER NO |
|--|---|--------------|---------------------------|----------|--------------------------------------|---------|-----------|--------|----------|------------|-----------|------------|----------|-----------------------|
| LABORATORY, INC. | FAX: 408.263.8293 www.torrentlab.com | 3 | ·N | OTE: SHA | DED A | REAS | ARE F | OR TO | ORREN | T LAB US | E ON | ILY• | 120 | 18267 |
| Company Name: IMPACT ENVIRO | NMENTAL | | | ☑ Env. |] H 🔲 | Food | Special | Locati | on of Sa | ampling: 1 | 409-1 | 417 12T | H ST., C | DAKLAND |
| Address: 39120 ARGONAUT WAY, #2 | 23 | | | | | Purpos | se: SIT | TE CL | OSURE | VERIFI | CATI | ON SOI | L VAPO | R |
| City: CA | State: CA | Zip | Code: 94 | 1538 | | Specia | al Instru | ctions | / Comm | ents: | | | | |
| Telephone: 510-703-5420 | FAX: | | | | | | | | | | | | | |
| REPORT TO: JOSEPH COTTON | SAMPLER: JOSE | PH COTT | ON | | | P.O. # | : | , | EMAI | L: JAC2 | 146 | 2@AC | L.CO | M |
| TURNAROUND TIME: 10 Work Days | tt Day Waste Water Ground Water | ✓ Air | REPORT QC Lo EDF Excel | | TO-PATO15 (TPHG & BTEX&MTBE / 11 DFA | | | , | | , | | | | ANALYSIS REQUESTED |
| LAB ID CANISTER CLIENT'S SAMPLE I. | D. DATE / TIME SAMPLED | MATRIX | # OF CONT | CONT | TO-J BTE | | | | | | | | | REMARKS |
| -001A CSV-5 | 8-29-12 | AIR | 1 | SUMMA | / | | | | | | | | | |
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| M.g. 5.0 A.A.S | • / | | | | | | | | | | \bot | | | |
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| Reim uished by Print: JOSEPH COTT | ON S-30 | >-12 | Time; | 30 . | | red By: | lade | מממ | | VAVIN | 610 | Pate: | 1/2 | Time: 18:20 |
| Relinquished By: Print: | Date: | | Time: | | Recei | ed By: | i | | Print: | | | ate: | | Time: |
| Were Samples Received in Good Condition? NOTE: Samples are discarded by the labor | | amples on lo | _ | _ | | | ment | D | D | Temp | Sam | nple seals | | Yes NO No |

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