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1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health at 2:11 pm, Dec 04, 2014

Re: Former Tidewater Service Station 373378
7600 MacArthur Boulevard
Oakland, California

I have reviewed the attached report dated December 1, 2014.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink that reads "Jillian Holloway".

Jillian Holloway
Project Manager

Attachment: Site Investigation Report and Closure Request



SITE INVESTIGATION REPORT AND CLOSURE REQUEST

**Former Tidewater Service Station
Chevron Site 373378
Phillips 66 Site 5677
7600 MacArthur Boulevard
Oakland, California
ACEH Fuel Leak Case No. RO3087**

Prepared for:

**Ms. Karel Detterman
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**Prepared by:
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**DECEMBER 1, 2014
REF. NO. 062164 (4)**



SITE INVESTIGATION REPORT AND CLOSURE REQUEST

Former Tidewater Service Station
Chevron Site 373378
Phillips 66 Site 5677
7600 MacArthur Boulevard
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ACEH Fuel Leak Case No. RO3087



David Herzog, P.G. 7211

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Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) is submitting this *Site Investigation Report* for the former Tidewater service station located at 7600 MacArthur Boulevard in Oakland, California, on behalf of Chevron Environmental Management Company (Chevron) and Phillips 66 Company (Phillips 66). In a letter dated June 26, 2014 (Appendix A), the Alameda County Environmental Health Department (ACEH) approved the scope of work proposed in CRA's November 13, 2013 *Work Plan for Site Investigation* and May 2, 2014 work plan addendum. Site background information, site assessment activities, and conclusions and recommendations are presented below.

Section 2.0 Site Background

The following provides a description of the site and a summary of previous environmental work performed at the site.

2.1 Site Description

The site is located at 7600 MacArthur Boulevard in Oakland, California (Figure 1), and is currently a vacant lot. Based on information provided by the ACEH, Phillips Petroleum Company owned the property from 1966 through 1973. Since then, the site has had several owners, but has not undergone any major redevelopment. Former site features included at least one 1,000-gallon underground storage tank (UST), one 300-gallon UST, a dispenser island, and a station building with two hydraulic lifts. Approximate locations of the former service station building and USTs are shown on Figure 2. The site is bordered by private residences to the northeast and southeast. Commercial businesses are located southwest beyond MacArthur Boulevard and a vacant lot is located northwest across 76th Avenue. Additional site information is included in the site conceptual model (SCM) presented as Appendix B.

2.2 Site Geology and Hydrogeology

The site is relatively flat lying, slightly sloping to the west-southwest toward San Francisco Bay, at an approximate elevation of 92 feet above mean sea level. Based on the San Francisco-San Jose Quadrangle geologic map from the California Department of Conservation, the site is underlain by sand and Quaternary alluvium and possibly marine sandstone, greenstone, shale, conglomerate, and chert of the Mesozoic Franciscan Complex.

Soil encountered beneath the site during all investigations consists primarily of clay with varying, minor percentages of sand and gravel. Groundwater was encountered at approximately 33 to 34 feet below grade (fbg). The regional groundwater flow in the vicinity of

the site is assumed to be towards the west-southwest, in the direction of the San Francisco Bay, and generally following the natural topographic relief of the area (Figure 1).

The site is located in the East Bay Plain groundwater basin according to the San Francisco Bay Regional Water Quality Control Board's Basin Plan. Groundwater in this basin is designated beneficial for municipal and domestic water supply and industrial process, service water, and agricultural water supply. The nearest surface water body is Arroyo Viejo Creek, which flows generally southwest to the Oakland Inner Harbor and is located approximately 0.4 mile southwest of the site.

2.3 Previous Environmental Work

In January 2007, one 1,000-gallon underground storage tank (UST) located onsite and one 300-gallon UST located beneath the sidewalk adjacent to MacArthur Boulevard were removed. Both tanks had been previously abandoned and filled with concrete during the 1970's. During removal of the USTs, soil samples P1, P2, and ST1 were collected beneath the former USTs. In September 2007, Golden Gate Tank Removal oversaw the advancement of soil borings B-1 through B-4 to depths ranging from 9 to 13 fbg.¹ Soil boring and sample locations are shown on Figure 2, and analytical results are presented in Table 1.

Total petroleum hydrocarbons as gasoline (TPHg) was detected in soil only from boring B-4 at concentrations up to 500 milligrams per kilogram (mg/kg) beneath the former 300-gallon UST, but the chromatogram pattern was atypical for TPHg. TPH as diesel (TPHd) was detected in soil samples from P2, B-3, and B-4, but the chromatogram pattern did not resemble TPHd. TPH as motor oil (TPHmo) was detected in B-3 at concentrations up to 4,500 mg/kg, and total oil and grease (TOG) was detected in samples P1, P2, and ST1 collected beneath the USTs at concentrations between 55 to 300 mg/kg. No other hydrocarbon constituents were detected.

Section 3.0 Site Assessment

Between September 30, 2014 and October 8, 2014, CRA installed monitoring wells MW-1 through MW-3 and advanced soil borings BH-1 through BH-7 across the site to evaluate petroleum hydrocarbons in soil and groundwater, and advanced seven hand augered soil borings to evaluate conductive anomalies identified during a geophysical survey conducted in April 2014. Soil boring and groundwater monitoring well locations are presented on Figure 2.

¹ Golden Gate Tank Removal, 2007, *Preliminary Site Characterization: Former Service Station 7600 MacArthur Boulevard Oakland, California*

3.1 Site Health and Safety Plan

CRA updated the site-specific health and safety plan to inform site workers of known hazards and to provide health and safety guidance. The plan was reviewed and signed by all site workers and visitors each day prior to start of work. The plan was kept onsite and followed during all field activities.

3.2 Permits

Drilling and monitoring well installation activities were performed under Alameda County Public Works Agency (ACPWA) Water Resources Well Permit Numbers W2014-0856 through W2014-0859. A copy of the permit document is provided in Appendix C.

3.3 Underground Utility Location

CRA notified Underground Service Alert (USA) more than 48 hours prior to field activities to clear the soil boring and monitoring well locations with public utility companies. CRA also retained California Utility Surveys to conduct a private utility survey to further identify potential subsurface utilities and underground obstructions in the vicinity of the proposed boring and monitoring well locations. Additionally, the soil boring and monitoring well locations were cleared to 8 fbg using a hand auger to ensure no unidentified underground utilities or obstructions were located beneath ground surface.

3.4 Soil Boring and Sampling

Woodward Drilling (C57 License No. 710079) of Rio Vista, California, advanced borings BH-1 through BH-7 and MW-1 through MW-3 under the supervision of CRA field personnel. Borings BH-1 through BH-7 were advanced to depths ranging from 17 to 36 fbg, well borings MW-1 and MW-3 were advanced to 35 fbg, and well boring MW-2 was advanced to 36.5 fbg using a Geoprobe rig. After collection of soil and groundwater samples, well borings MW-1 through MW-3 were enlarged with 8-inch diameter hollow-stem augers to 35 fbg for well installation.

A disturbed shallow soil sample was collected from each boring at approximately 5 fbg by driving a 6-inch long stainless steel tube into the hand auger bucket until no headspace was observed. Deeper soil samples were collected at 5-foot intervals using the Geoprobe push rods lined with 4-foot acetate liners. All soil sample tubes collected for chemical analysis were sealed on both ends with Teflon sheeting and plastic caps. Grab groundwater samples were collected in laboratory supplied containers from borings BH-1, BH-4, and BH-5, and from well borings MW-1 through MW-3. No groundwater samples were collected from borings BH-2, BH-3, BH-6, or BH-7 due to insufficient water.

Following boring advancement, borings BH-1 through BH-7 were backfilled to approximately 6 inches below grade with neat Portland Type I/II cement, and then filled with native soil to match the existing grade. Well construction and completion details for MW-1 through MW-3 are provided in Section 3.6.

3.5 Soil Logging and Screening

Soil encountered in each boring during drilling activities were logged in accordance with American Society for Testing and Materials' (ASTM) Unified Soil Classification System (USCS) standard D2488 by an experienced scientist, under the direction of a California Professional Geologist. Soil was also screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Boring logs with lithologic descriptions and PID readings are provided in Appendix D.

3.6 Monitoring Well Installation

Monitoring wells MW-1 through MW-3 were constructed of 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) casing with 0.010-inch machine-slotted screen. Well screen intervals were determined based on the depths of permeable, moist to wet soil encountered in each well boring. For wells MW-1 and MW-2, soil from ground surface to approximately 30 fbg was primarily hard, dry clay. At 30 fbg the sand and gravel content increased and the soil was moist, becoming wet at approximately 34 fbg. The screen intervals in MW-1 and MW-2 were set from 30 to 35 fbg to match the depth discrete saturated soil interval. In well MW-3, soil consisted of dry clay from ground surface to approximately 23 fbg, where sand and gravel content increased and soil was moist. Soil remained moist to approximately 34 fbg, where soil became hard, damp clay. The screen interval in MW-3 was set from 19.5 to 34.5 fbg. A filter pack consisting of #2/16 Monterey Sand was placed in the annulus from the bottom of the boring to approximately 1 foot above the screen interval. The remaining annulus was filled with a 1 foot bentonite cap above the filter pack then filled to approximately 1 fbg with neat Portland Type I/II cement. Each well was completed with an appropriate traffic-rated well box and finished flush with the existing grade. Well construction details are provided in Table 2 and on the boring logs provided in Appendix D.

3.7 Investigation-Derived Waste

Soil cuttings and rinsate water produced during field activities are being temporarily stored onsite in Department of Transportation-approved 55-gallon drums pending proper waste profiling. Once waste profiling is complete, the drums will be transported offsite to a Chevron-approved facility for disposal or recycling. Following removal activities, waste disposal documentation can be provided upon request.

3.8 Well Elevation Survey

The top of casing elevations of newly installed wells MW-1 through MW-3 were surveyed to mean seal level datum by Morrow Surveying of Sacramento, California on October 8, 2014. The well survey data is provided in Appendix E.

Section 4.0 Analytical Results

A total of 59 soil and six groundwater samples were submitted for laboratory analysis. All soil and groundwater samples were stored on ice in laboratory-supplied coolers and transported under chain-of-custody to Eurofins Lancaster Laboratories (Lancaster) of Lancaster, Pennsylvania. Samples were analyzed on a standard turnaround time for the following constituents:

- TPHd and TPHg by EPA Method 8015B
- Total oil and grease by Method 1664A (HEM SGT) only for soil samples collected from former hydraulic hoist area
- Full scan volatile organic compounds (VOCs) by EPA Method 8260B
- Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270C
- Metals (Al, Ba, B, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, Si, Ag, Na, S, Sn, Ti, V, Zn) by EPA Method 6010B

Soil and groundwater analytical results are presented on Tables 1 and 3, and the results are summarized in the sections below. Lancaster's *Analytical Results* reports are included in Appendix F.

4.1 Soil Analytical Results

Soil analytical results are summarized below and presented on Table 1.

- TPHd was detected in soil in 11 of 59 soil samples at concentrations ranging from 5.6 to 33 milligrams per kilograms (mg/kg).
- TPHg was detected in soil in 6 of 59 soil samples at concentrations ranging from 0.6 to 94 mg/kg.
- Benzene and ethylbenzene were detected in only one soil sample from MW-1 (20 fbg) at concentrations of 0.001 mg/kg and 0.005 mg/kg, respectively; xylenes were only detected in one soil sample from BH-1 (5 fbg) at a concentration of 0.004 mg/kg. No toluene was detected.

- No fuel oxygenates or lead scavengers were detected in soil.
- The following VOCs were detected in soil at the corresponding maximum concentrations: 0.032 mg/kg acetone, 0.014 mg/kg n-butanone, 0.2 mg/kg sec-butylbenzene, 0.1 mg/kg n-butylbenzene, 0.003 mg/kg isopropylbenzene, 0.002 mg/kg p-isopropyltoluene, 0.003 mg/kg methylene chloride, 0.009 mg/kg n-propylbenzene, and 0.11 mg/kg 1,2,4-trimethylbenzene. No other VOCs were detected in the soil samples analyzed. None of the VOCs detected in soil exceeded State Water Resources Control Board Low-Threat Closure Policy (SWRCB LTCP) levels or San Francisco Bay Regional Water Quality Control Board Environmental Screening levels (RWQCB ESLs).
- The following PAHs were detected in soil at the corresponding maximum concentrations: 0.01 mg/kg acenaphthylene, 0.007 mg/kg anthracene, 0.018 mg/kg benzo(a)anthracene, 0.039 mg/kg benzo(a)pyrene, 0.029 mg/kg benzo(b)fluoranthene, 0.024 mg/kg benzo(g,h,i)perylene, 0.023 mg/kg benzo(k)fluoranthene, 0.022 mg/kg chrysene, 0.018 mg/kg fluoranthene, 0.021 mg/kg indeno(1,2,3-cd)pyrene, 0.026 mg/kg naphthalene, 0.012 mg/kg phenanthrene, and 0.027 mg/kg pyrene. None of the PAHs detected in soil exceeded SWRCB LTCP or RWQCB ESLs except for benzo(a)pyrene in MW-3 at 5 fbg where the concentration of 0.039 mg/kg slightly exceeded the RWQCB ESL of 0.038 mg/kg, but was below the SWRCB LTCP of 0.063 mg/kg.
- All metals were detected in soil at concentrations below RWQCB ESLs except for vanadium detected in BH-5 at 20 fbg at a concentration of 782 mg/kg, which is twice the screening level of 390 mg/kg. Concentrations of vanadium in soil above and below 20 fbg in BH-5 were below the screening level.

4.2 Groundwater Analytical Results

Grab groundwater analytical results are summarized below and presented in Table 3.

- No light non-aqueous phase liquid (LNAPL) was observed floating on groundwater in any of the soil borings or monitoring wells.
- TPHd was detected in groundwater at a maximum concentration of 620 micrograms per liter ($\mu\text{g/L}$) in BH-4 (Figure 3).
- TPHg was only detected in groundwater in MW-1 at a concentration of 480 $\mu\text{g/L}$ (Figure 4).
- No BTEX were detected in groundwater expect for 1 $\mu\text{g/L}$ ethylbenzene and 0.6 $\mu\text{g/L}$ m+p-xylenes in MW-1.
- No fuel oxygenates or lead scavengers were detected in groundwater.
- Ethanol was detected in MW-3 at 51 $\mu\text{g/L}$.
- The following VOCs were detected in groundwater at the corresponding maximum concentrations: 29 $\mu\text{g/L}$ acetone, 4 $\mu\text{g/L}$ 2-butanone, 4 $\mu\text{g/L}$ n-butylbenzene, 2 $\mu\text{g/L}$

sec-butylbenzene, 1 µg /L carbon tetrachloride, 0.9 µg /L chlotoform, 2 µg /L isopropylbenzene, 6 µg /L n-propylbenzene, 4 µg /L 1,2,4-trimethylbenzene, and 2 µg /L 1,3,5-trimethylbenzene.

- The only PAHs detected in groundwater were in boring BH-1: 0.1 µg/L fluoranthene, 0.1 µg/L phenanthrene, and 0.2 µg/L pyrene; no naphthalene.
- All metals were detected in groundwater except for silver.

Section 5.0 DWR and ACPWA Records Review

CRA obtained well logs from the Department of Water Resources (DWR) and well records from the ACPWA to search for water production wells located within one mile of the site. Six water production wells were identified within 1 mile of the site. The closest well was an industrial well located approximately 1,980 feet west of the site. Five of the identified wells are irrigation, industrial or agricultural use wells; the sixth well located 5,020 feet southwest of the site is of unknown use. A list of the wells is presented in Table 4, and their approximate locations are shown on Figure 5.

Section 6.0 Conclusions and Recommendations

The results of this investigation indicate that petroleum hydrocarbon mass is present in soil and groundwater beneath the site, but the concentrations present are generally below applicable environmental screening levels. Because the site poses a low risk, CRA has compared current site conditions to the SWRCB LTCP, Resolution 2012-0016. Per the policy, sites that meet the specified general and media-specific criteria pose a low threat to human health, safety, and the environment and are appropriate for case closure pursuant to Health and Safety Code section 25296.10. The policy further states that those sites that meet the criteria for low-threat closure do not require further corrective action and shall be issued a uniform closure letter. A review of the general and media-specific criteria of the policy compared to current site conditions are presented below.

General Criteria

There are 8 general criteria that must be satisfied by all candidate sites. The following is a summary of how the site meets those criteria.

- a. *The unauthorized release is located within the service area of a public water system.*

Satisfied: The site is located within the service area or the East Bay Municipal Utility District. The water well survey discussed in Section 5 did not identify any water supply wells within 1,000 feet of the site.

- b. *The unauthorized release consists only of petroleum.*

Satisfied: The unauthorized release at the site has been characterized as a release of petroleum-based products.

- c. *The unauthorized (“primary”) release from the UST system has been stopped.*

Satisfied: Petroleum storage and handling facilities that were the source of the release have been removed from the site. No additional buried USTs or piping were identified during the geophysical survey conducted in April 2014.

- d. *Free product has been removed to the maximum extent practicable.*

Satisfied: Free product has not been observed at the site.

- e. *A conceptual site model that assesses the nature, extent, and mobility of the release has been developed.*

Satisfied: This report includes a SCM as Appendix B.

- f. *Secondary source has been removed to the extent practicable.*

Satisfied: Remedial excavation was conducted in the area of the USTs, and none of the concentrations detected in soil are representative of additional secondary source.

- g. *Soil and groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code section 25296.15.*

Satisfied: Soil and groundwater samples have been analyzed for MTBE, and reported in accordance with Health and Safety Code section 25296.15

h. Nuisance as defined by Water Code section 13050 does not exist at the site.

Satisfied: Conditions defined as a “nuisance” in Water Code section 13050 do not exist at the site.

Media-Specific Criteria

In the Low-Threat Policy, candidate sites must satisfy all three of the following media-specific criteria:

1. Groundwater
2. Vapor Intrusion to Indoor Air
3. Direct Contact and Outdoor Air Exposure

Groundwater

It is a fundamental tenet of the Low-Threat Policy that if the specified closure criteria are satisfied at an unauthorized petroleum release site, attaining background water quality is not feasible, and applicable water quality objectives (WQOs) will be attained through natural attenuation within a reasonable amount of time, prior to the expected need for use of any affected groundwater. If a site has groundwater with a designated beneficial use that is affected by an unauthorized release, to satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds WQOs must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites listed in the Low-Threat Policy as follows:

Satisfied: During the recent investigation, TPHg was detected in only one boring, MW-1 at 480 µg/L, and TPHd was detected in four borings at concentrations ranging from 75 to 620 µg/L; no benzene or methyl tert-butyl ether (MTBE) was detected in groundwater. Although TPHg and TPHd were detected at concentrations exceeding the RWQCB ESLs of 100 µg/L, the results as depicted on Figures 3 and 4 indicate that the remaining dissolved hydrocarbon plume is limited in extent. In previous work conducted in 2007 (Table 1), TPHg and TPHd range hydrocarbons in soil had atypical chromatogram patterns not indicative of gasoline or diesel. Given that the former USTs were abandoned in the 1970’s, remaining hydrocarbon mass is likely weathered and degraded. The remaining TPHg and TPHd hydrocarbons in groundwater, along with heavier (longer-chain) hydrocarbons detected in the TPH as motor oil and total oil and grease ranges beneath the site are not as soluble as unweathered product, and plume lengths are not as significant.² In technical guidance provided by the SWRCB for the LTCP², the average TPHg plume length based on empirical data

² State Water Resources Control Board, Technical Justification for Groundwater Plume Lengths, Indicator Constituents, Concentrations, and Buffer Distances (Separation Distances) to Receptors, July 12, 2011.

is approximately 250 feet where sufficient dissolved TPHg-range hydrocarbons, including benzene and MTBE, are present to migrate. The characteristics of the petroleum hydrocarbons detected beneath the site suggest that the hydrocarbon plume is likely stable and less than 250 feet in length. Based on the results of this and previous investigations, hydrocarbons in groundwater meet Scenario 2 of the LTCP, in which the contaminant plume that exceeds WQOs is less than 250 feet in length, there is no free product, and the nearest existing water supply well or surface water body is greater than 1,000 feet from the site.

Petroleum Vapor Intrusion to Indoor Air

The low-threat vapor intrusion criterion described below applies to sites where the release originated and impacted or potentially impacted adjacent parcels when: (1) existing buildings are occupied or may be reasonably expected to be occupied in the future, or (2) buildings for human occupancy are reasonably expected to be constructed in the future.

Satisfied: Based on the results of this and previous investigations, hydrocarbons in groundwater meet Scenario 3A of the LTCP, in which depth to groundwater is ≥ 5 fbg, dissolved benzene in groundwater is <100 $\mu\text{g/L}$, and total TPH in the upper 5 feet of soil is <100 mg/kg .

Direct Contact and Outdoor Air Exposure

The Low-Threat Policy describes conditions where direct contact with contaminated soil or inhalation of contaminants volatilized to outdoor air poses a low threat to human health. Release sites where human exposure may occur satisfy the media-specific criteria for direct contact and outdoor air exposure and shall be considered low-threat if they meet any one of the following:

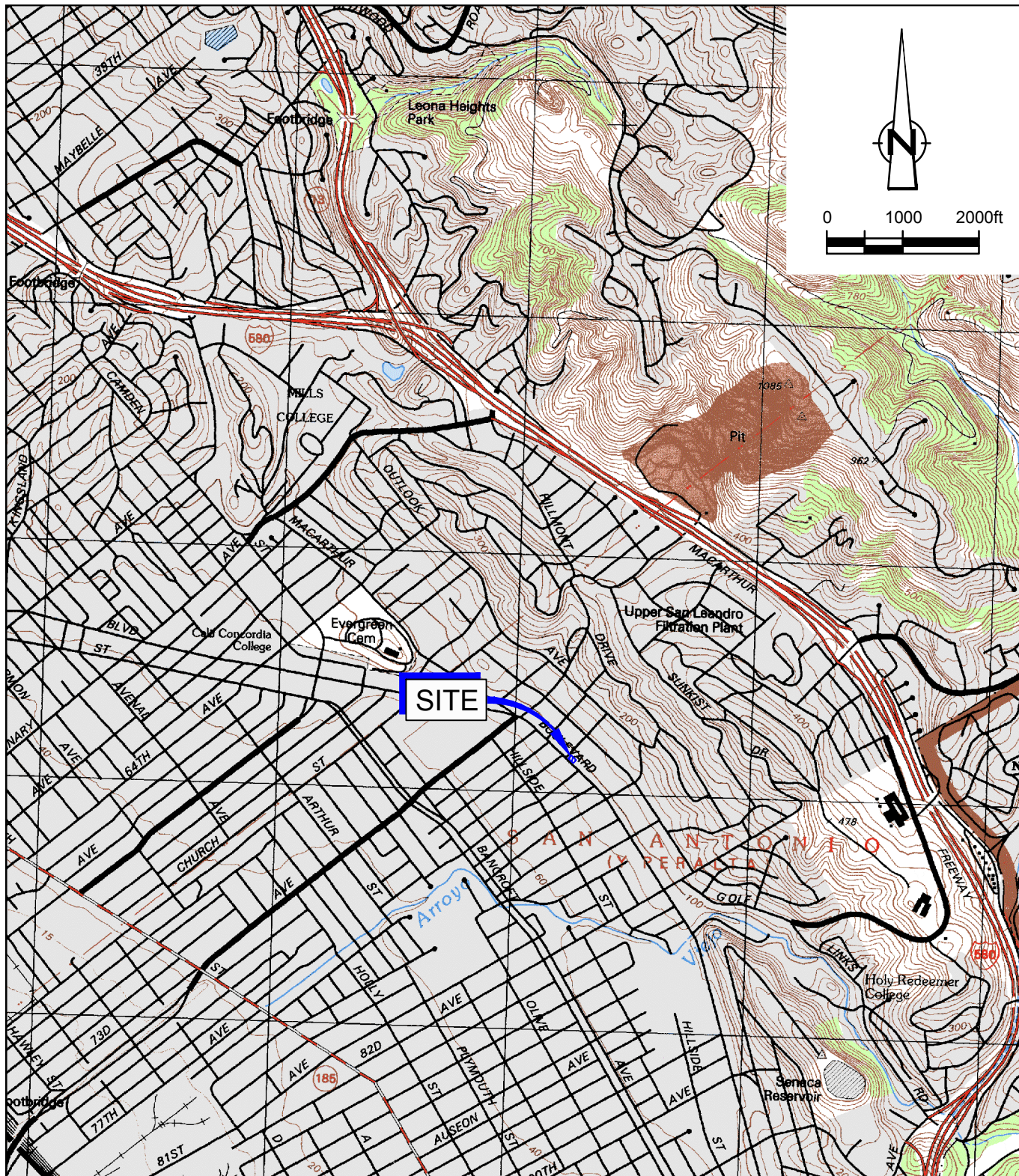
Satisfied: The site meets the characteristics of Criterion (a) of the LTCP. The maximum detected concentrations of benzene, ethylbenzene, naphthalene, and PAHs in soil samples collected in the 0 to 5 fbg and 5 to 10 fbg intervals do not exceed the residential limits shown in the table below.

Constituent	Maximum Concentration Detected in Soil (mg/kg)	Residential		Commercial/Industrial		Utility Worker
		0–5 fbg (mg/kg)	Volatilization to outdoor air (5–10 fbg) (mg/kg)	0–5 fbg (mg/kg)	Volatilization to outdoor air (5–10 fbg) (mg/kg)	0–10 fbg (mg/kg)
Benzene	0.001	1.9	2.8	8.2	12	14
Ethylbenzene	0.005	21	32	89	134	314
Naphthalene	0.026	9.7	9.7	45	45	219
PAH*	0.039	0.063	NA	0.68	NA	4.5

* Based on the seven carcinogenic polycyclic aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent [BaPe]. The PAH screening level is only applicable where soil is affected by either waste oil and/or Bunker C fuel.

Based on the information obtained during this investigation, site conditions currently meet the general and media-specific criteria of a low-threat UST release case established in the LTCP, and therefore pose a low threat to human health, safety, and the environment. The site satisfies the case closure requirements of Health and Safety Code section 25296.10, and case closure is consistent with Resolution 92-49 that requires cleanup goals be met within a reasonable time frame. Therefore, on behalf of Chevron and P66, CRA respectfully requests ACEH grant case closure.

Figures

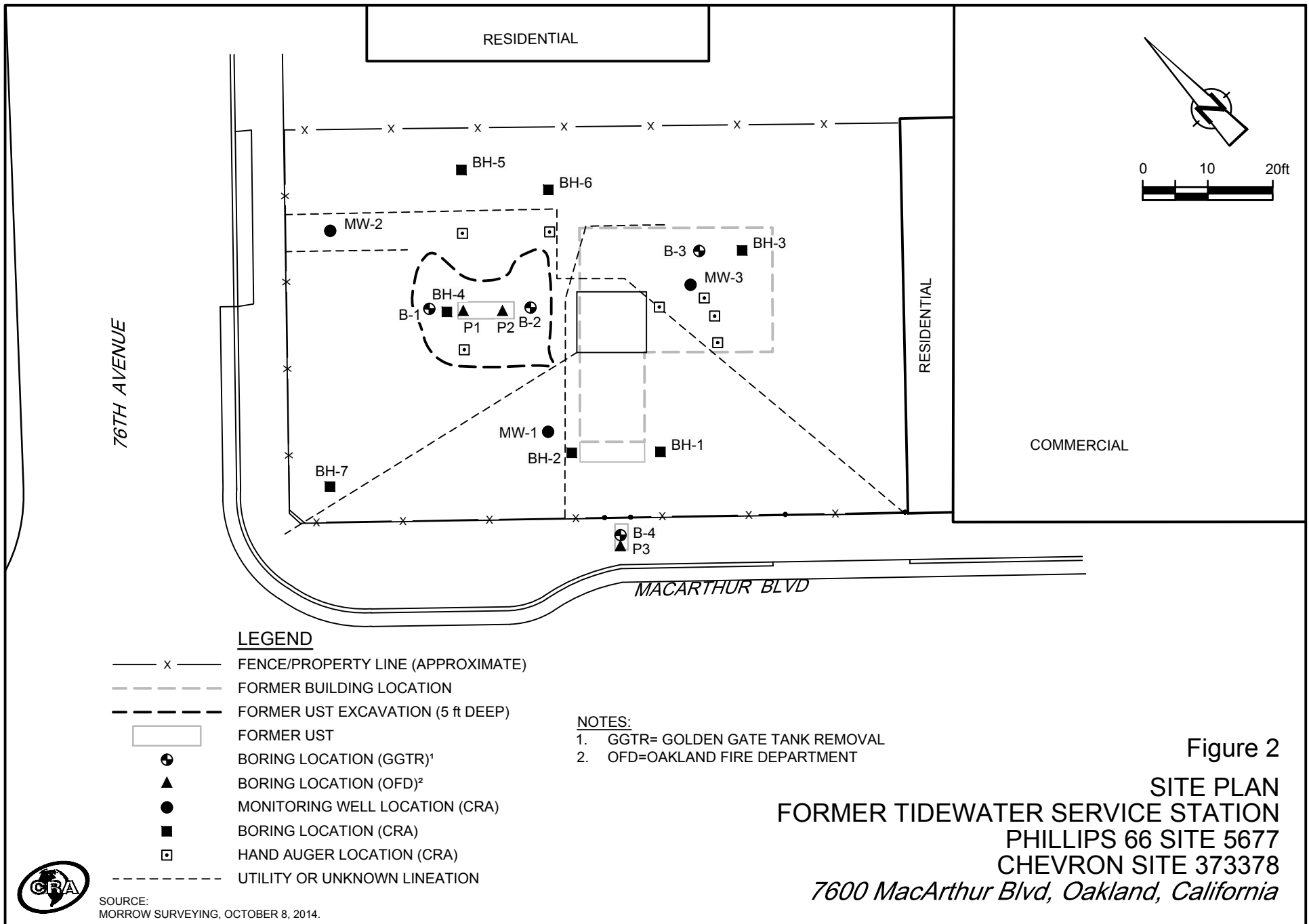


SOURCE: USGS QUADRANGLE MAP;
OAKLAND EAST, CALIFORNIA. 1997

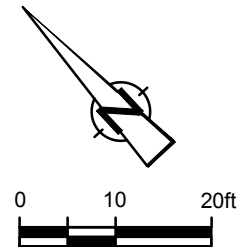
Figure 1

VICINITY MAP
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677
CHEVRON SITE 373378
7600 MacArthur Blvd, Oakland, California





RESIDENTIAL



76TH AVENUE

RESIDENTIAL

COMMERCIAL

MACARTHUR BLVD

LEGEND

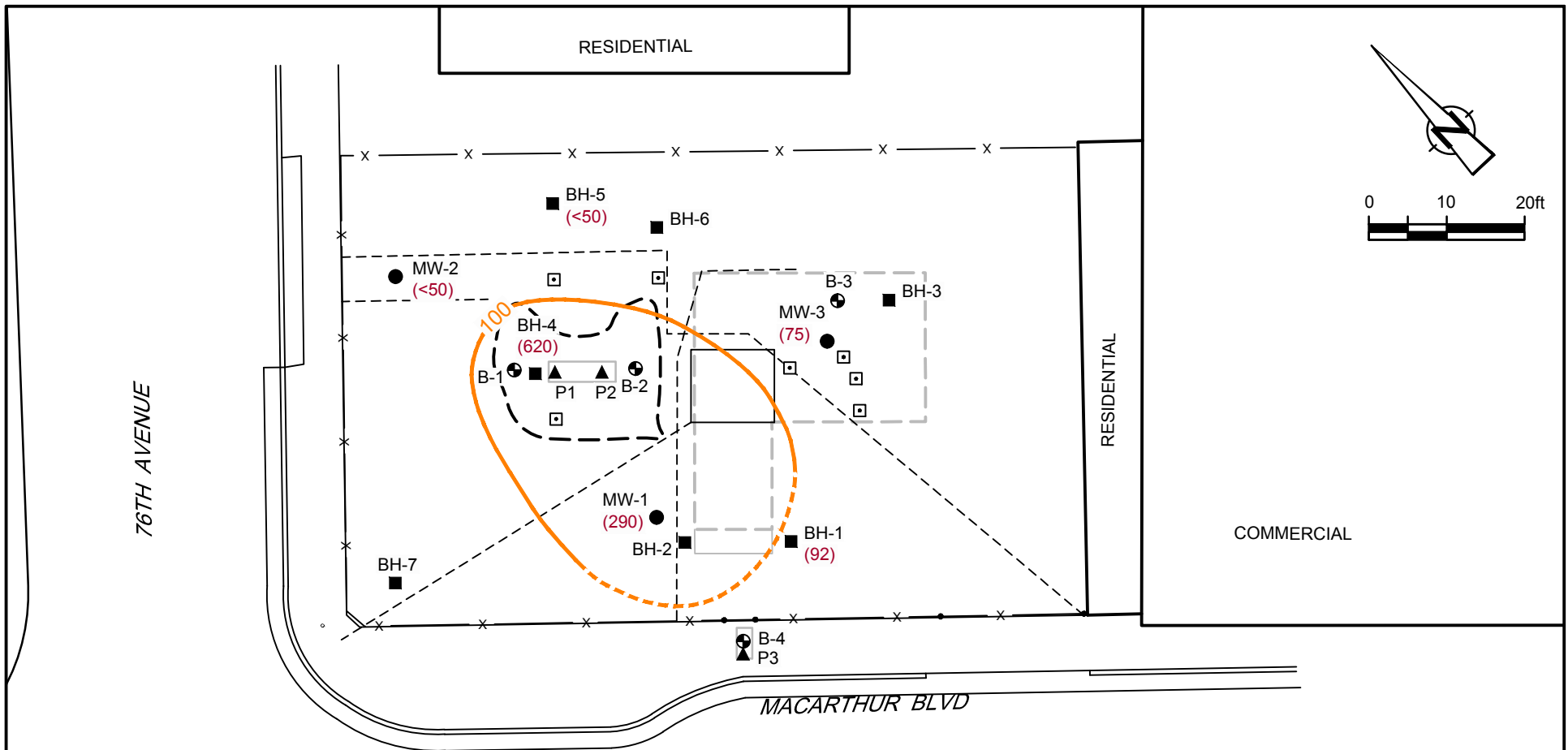
- x — FENCE/PROPERTY LINE (APPROXIMATE)
- - - - - FORMER BUILDING LOCATION
- - - - - FORMER UST EXCAVATION (5 ft DEEP)
- FORMER UST
- BORING LOCATION (GGTR)¹
- ▲ BORING LOCATION (OFD)²
- MONITORING WELL LOCATION (CRA)
- BORING LOCATION (CRA)
- HAND AUGER LOCATION (CRA)
- - - - - UTILITY OR UNKNOWN LINEATION

- NOTES:**
1. GGTR= GOLDEN GATE TANK REMOVAL
 2. OFD=OAKLAND FIRE DEPARTMENT

Figure 2
SITE PLAN
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677
CHEVRON SITE 373378
7600 MacArthur Blvd, Oakland, California



SOURCE:
MORROW SURVEYING, OCTOBER 8, 2014.



LEGEND

- x — FENCE/PROPERTY LINE (APPROXIMATE)
- - - - - FORMER BUILDING LOCATION
- - - - - FORMER UST EXCAVATION (5 ft DEEP)
- FORMER UST
- BORING LOCATION (GGTR)¹
- ▲ BORING LOCATION (OFD)²
- MONITORING WELL LOCATION (CRA)
- BORING LOCATION (CRA)
- HAND AUGER LOCATION (CRA)
- - - - - UTILITY OR UNKNOWN LINEATION
- (290) TPHd CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L)
- 100 — TPHd CONCENTRATION CONTOUR DASHED WHERE INFERRED

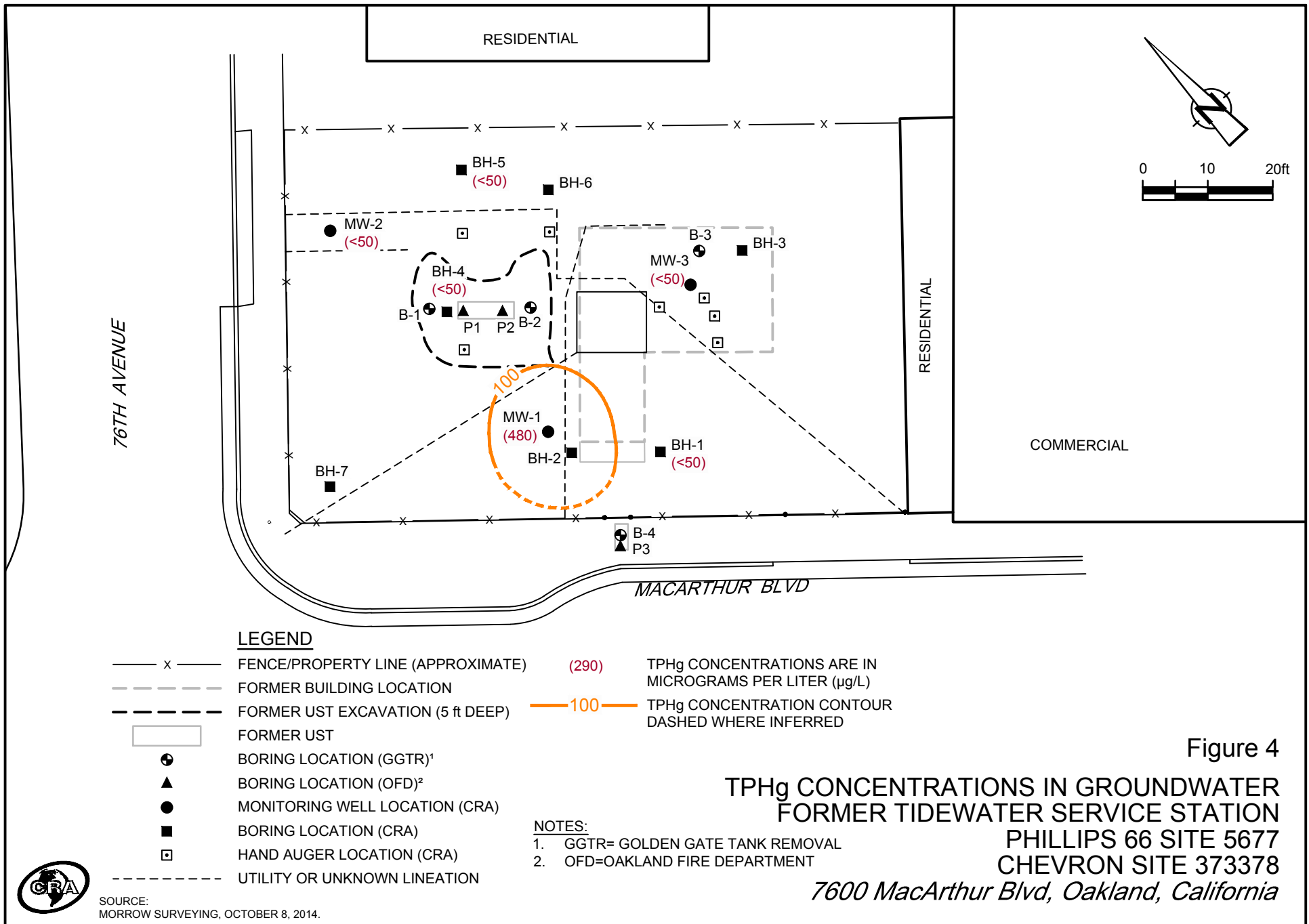
NOTES:

1. GGTR= GOLDEN GATE TANK REMOVAL
2. OFD=OAKLAND FIRE DEPARTMENT

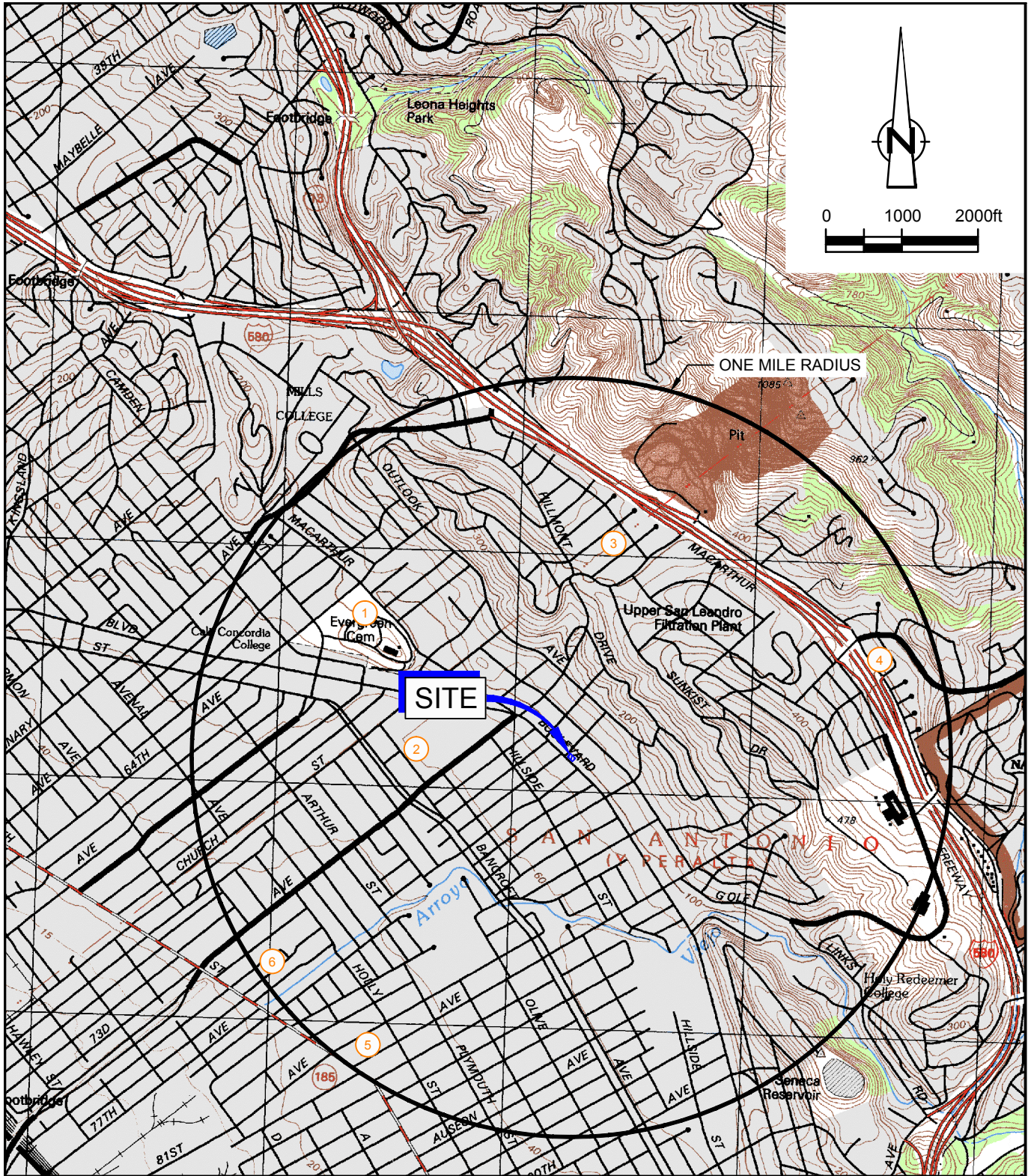
Figure 3
TPHd CONCENTRATIONS IN GROUNDWATER
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677
CHEVRON SITE 373378
7600 MacArthur Blvd, Oakland, California



SOURCE:
MORROW SURVEYING, OCTOBER 8, 2014.



SOURCE:
MORROW SURVEYING, OCTOBER 8, 2014.



SOURCE: USGS QUADRANGLE MAP;
OAKLAND EAST, CALIFORNIA. 1997

Figure 5

ONE-MILE WELL SURVEY
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677
CHEVRON SITE 373378
7600 MacArthur Blvd, Oakland, California



Tables

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677/CHEVRON SITE 373378
7600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Sample Location	Date	Depth (fbg)	TOG	TPHmo	TPHd	TPHg	VOCs													PAHs													
							Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	n-propylbenzene	Methylene Chloride	1,2,4-Trimethylbenzene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Fluoranthene	Indeno (1,2,3-cd) pyrene	Naphthalene*	Phenanthrene	Pyrene
SFB-RWQCB Residential ESLs*			5,000	5,000	240	490	0.044	2.9	3.3	2.3	2.3	0.5	-	-	-	-	-	-	0.077	-	13	2.8	0.38	0.038	0.38	27	0.38	3.8	6	0.38	1.2	11	85
SWRCB LTCP**			-	-	-	-	1.9	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	0.063	-	-	-	-	-	-	9.7	-	-	
BH-4	10/1/2014	5	-	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/8/2014	10	<200	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/8/2014	15	<200	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/8/2014	20	<200	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/8/2014	25	<200	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/8/2014	30	<200	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/8/2014	35	<200	-	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Sample Location	Date	Depth (fbg)	TOG	TPHmo	TPHd	TPHg	VOCs														PAHs												
							Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	p-Isopropyltoluene	n-propylbenzene	Methylene Chloride	1,2,4-Trimethylbenzene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Fluoranthene	Indeno (1,2,3-cd) pyrene	Naphthalene*	Phenanthrene	Pyrene
SFB-RWQCB Residential ESLs*			5,000	5,000	240	490	0.044	2.9	3.3	2.3	2.3	0.5	--	--	--	--	--	0.077	--	13	2.8	0.38	0.038	0.38	27	0.38	3.8	6	0.38	1.2	11	85	
SWRCB LTCP**			--	--	--	--	1.9	--	21	--	--	--	--	--	--	--	--	--	--	--	--	0.063	--	--	--	--	--	--	9.7	--	--		
BH-5	10/2/2014	5	--	--	6.5 J	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/7/2014	10	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	0.003 J	0.003 J	<0.003	<0.003	0.004 J	0.004 J	0.003 J	<0.003	<0.003
	10/7/2014	15	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	0.004 J	0.004 J	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/7/2014	20	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/7/2014	30	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/7/2014	35	727	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.008 J	0.007 J	<0.003	
BH-6	9/30/2014	5	--	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/8/2014	10	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.008 J	0.003 J	<0.003	
	10/8/2014	15	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/8/2014	20	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/8/2014	25	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
	10/8/2014	30	<200	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
BH-7	10/1/2014	5	--	--	6.4 J	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	0.005 J	0.008 J	<0.003	0.010 J	0.006 J	<0.003	0.004 J	0.007 J	0.006 J
	10/2/2014	10	--	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	10/2/2014	15	--	--	<3.9	<0.5	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.007	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Abbreviations & Notes

Results reported in milligrams per kilogram (mg/kg)

fbg = Feet below grade

TOG = Total oil and grease by Method 1664A (HEM SGT)

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015M

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015M

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015M

VOCs = Volatile organic compounds by EPA Method 8260; only detected VOCs shown, no other VOCs detected.

PAHs = Polynuclear aromatic hydrocarbons by EPA Method 8270C SIM; only detected PAHs shown, no other PAHs detected.

-- = Not analyzed

¹ Samples collected from base of UST pits, depth not reported

² Higher boiling hydrocarbons (C9-C16); no diesel pattern present

³ Atypical pattern

J = Estimated value between laboratory reporting limit and method detection limit

* San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, Table C-1, May 2013

** State Water Resources Control Board, Low-Threat Closure Policy, Direct Contact and Inhalation Risk Levels, Residential Soil 0-5 fbg

**WELL CONSTRUCTION DETAILS
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677/CHEVRON SITE 373378
7600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>TOC*</i>	<i>Total Depth (fbg)</i>	<i>Casing Diameter** (inches)</i>	<i>Slot Size (inches)</i>	<i>Screen Interval (fbg)</i>	<i>Filter Pack (fbg)</i>	<i>Type</i>	<i>Status</i>
MW-1	10/7/2014	89.45	35	2	0.010	30-35	27-35	Monitoring	Active
MW-2	10/3/2014	90.35	36.5	2	0.010	30-35	29-35	Monitoring	Active
MW-3	10/7/2014	90.45	35	2	0.010	19.5-34.5	19-35	Monitoring	Active

Abbreviations & Notes:

TOC = Top of casing elevation (feet above mean sea level)

* = Elevations are based on the NAVD 88 datum

** = Casing material: Schedule 40 PVC

fbg = Feet below grade

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677/CHEVRON SITE 373378
7600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Sample Location	Date	VOCs																		PAHs		
		TPHd	TPHg	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	Carbon Tetrachloride	Chloroform	Ethanol	Isopropylbenzene	n-propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Fluoranthene	Phenanthrene	Pyrene
SFB-RWQCB ESLs*		100	100	1	40	30	81	81	1,500	-	-	-	0.5	70	-	-	-	-	-	8	4.6	2
BH-1	10/1/2014	92 J	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<6	<3	<1	<1	1	<0.5	<50	<1	<1	<1	<1	0.1 J	0.1 J	0.2 J
BH-4	10/8/2014	620	<50	<0.5	<0.5	<0.5	<0.5	<0.5	29	4 J	<1	<1	<0.5	<0.5	<50	<1	<1	<1	<1	<0.1	<0.1	<0.1
BH-5	10/8/2014	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	6 J	<3	<1	<1	<0.5	<0.5	<50	<1	<1	<1	<1	<0.1	<0.1	<0.1
MW-1	10/7/2014	290	480	<0.5	<0.5	1	0.6 J	<0.5	20	4 J	4 J	2 J	<0.5	<0.5	<50	2 J	6	4 J	2 J	<0.1	<0.1	<0.1
MW-2	10/8/2014	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<6	<3	<1	<1	0.9 J	<0.5	<50	<1	<1	<1	<1	<0.1	<0.1	<0.1
MW-3	10/7/2014	75 J	<50	<0.5	<0.5	<0.5	<0.5	<0.5	16 J	<3	<1	<1	<0.5	0.9 J	51 J	<1	<1	<1	<1	<0.1	<0.1	<0.1

Abbreviations & Notes

Results reported in micrograms per liter (µg/L)

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015M

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015M

VOCs = Volatile organic compounds by EPA Method 8260; only detected VOCs shown, no other VOCs detected.

PAHs = Polynuclear aromatic hydrocarbons by EPA Method 8270C SIM; only detected PAHs shown, no other PAHs detected.

J = Estimated value between laboratory reporting limit and method detection limit

* San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, Table F-1a, May 2013

**ONE-MILE WELL SURVEY
FORMER TIDEWATER SERVICE STATION
PHILLIPS 66 SITE 5677/CHEVRON SITE 373378
7600 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA**

<i>Map ID</i>	<i>DWR Well ID</i>	<i>Owner</i>	<i>Date Installed</i>	<i>Well Location</i>	<i>Total Depth (fbg)</i>	<i>Screen Interval(s) (fbg)</i>	<i>Well Type</i>	<i>Distance from Site (feet)</i>
1	2S/3W 10G1	Evergreen Cemetery	1/13/1953	64th Avenue	440	127-437	Irrigation	3,300 NW
2	2S/3W-10Q1	Chevrolet	3/9/1951	Foothill Blvd. and 69th Ave.	400	90-393	Industrial	1,980 W
3	2S/3W-11E1	Chae Son Yim	1/23/1978	3971 Burckhalter Ave.	27	26-27	Irrigation	2,970 NNE
4	2S/3W-11J3	Al Ponte	7/27/78	7972 Mountain Blvd.	108	67-107	Irrigation	4,420 ENE
5	2S/3W-15R1	Alphonse Perkins	5/24/1977	1431 82 Ave.	35	10-35	Agricultural	4,880 SW
6	2S/3W 15F1	Mrs. Hartman	7/30/1984	1477 76th Avenue	22	NA	Unknown	5,020 SW

Abbreviations & Notes:

fbg - Feet below grade

NA - Not available

Appendix A

Regulatory Correspondence

From: [Detterman, Karel, Env. Health](#)
To: ["Hunter, Brett \(BLHU\)"; "York, Kelly C"; "Hong jacqueline Gardner"; "honggardner@yahoo.com"; R Miller; "JillianHolloway@chevron.com"](#)
Cc: [Roe, Dilan, Env. Health; "Herzog, David"; "Fischer, Alexis N"](#)
Subject: Fuel Leak Case No. RO0003087, Hong Gardner Property, GeoTracker Global ID T10000003434, 7600 MacArthur Blvd., Oakland, CA
Date: Thursday, June 26, 2014 11:33:06 AM

Hello Ladies and Gentlemen:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the April 29, 2014 *Geophysical Survey, Sanborn Map Review, and Addendum to Work Plan for Site Investigation* (Addendum) prepared and submitted on your behalf by Conestoga-Rovers & Associates (CRA). The Addendum was submitted in response to a meeting with you and CRA on February 19, 2014. Thank you for submitting the Addendum and for claiming the site on Geotracker.

Based on ACEH staff review of the Addendum, the proposed scope of work is conditionally approved for implementation provided that the technical comment below is incorporated during the proposed work. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or these technical comments is proposed. We request that you address the following technical comments, perform the proposed work, and send us the report described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: karel.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

- 1. Additional Soil Boring Location:** Based the estimated groundwater gradient direction to the west from a nearby case (RO1026, 7250 Bancroft Avenue) and the results of the Geophysical Report which may indicate numerous metallic anomalies (i.e., source areas), ACEH suggests placing additional soil borings (with soil and groundwater sample collection and analysis as per the Work Plan and Addendum) in the western corner of the site, near the intersection of 76th Avenue and MacArthur Boulevard.
- 2. Well Screen Interval:** Assuming that groundwater elevations are decreased due to the drought, ACEH suggests modifying the placement of well screen intervals with the expectation for the future that groundwater elevations will increase.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Karel Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **September 5, 2014 – Soil and Groundwater Investigation Report**
File to be named: RO3087_SWI_R_yyyy-mm-dd

This report is being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please send me an e-mail message at karel.detterman@acgov.org or call me at (510) 567-6708.

Karel Detterman, PG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6708
Fax: 510.337.9335
Email: karel.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

Appendix B

Site Conceptual Model

**Table 4-1
Site Conceptual Model**

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
Geology and Hydrogeology	Site	Soil beneath the site consists primarily of clay with varying, minor percentages of sand and gravel. Groundwater is encountered at approximately 33 to 34 feet below grade.		
Geology and Hydrogeology	Regional	Lithology in the vicinity of the site consists of Quaternary alluvium and Franciscan Formation chert, shale, greenstone, and sandstone. Groundwater in the Oakland area typically flows along topography, which slopes down toward the San Francisco Bay to the west.		
Surface Water Bodies		Arroyo Viejo Creek is located approximately 0.4 mile southwest of the site. It flows into the Oakland Inner Harbor. San Francisco Bay is 2.3 miles to the southwest.		
Nearby Wells		A review of DWR and ACPWA records indicate that 6 water production wells are located within 1 mile of the site. The nearest well is located approximately 1,980 feet west of the site.		
Release Source and Volume		Suspected sources include one 1,000-gallon gasoline UST, one 300-gallon gasoline UST, and two hydraulic lifts. The USTs were abandoned and filled with concrete circa 1970. The USTs and hydraulic lifts were removed in January 2007. The volume of release is not known.		
LNAPL		No LNAPL detected		
Source Removal Activities		Two USTs and two hydraulic lifts were removed in January 2007. Fate of overexcavated soil is unknown based on available reports, but hydrocarbon concentrations remaining in soil are not indicative a remaining residual source onsite.		
Contaminants of Concern		Contaminants of concern for the site include petroleum hydrocarbon constituents, primarily TPHg, TPHd, and TPHmo. The presence of these constituents is consistent with the site history as a gasoline service station.		

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
Petroleum Hydrocarbons in Soil		The soil near the former location of the hydraulic lift contains TPHd, TPHmo, and TOG range hydrocarbons and the soil near the former location of the 300-gallon UST contains TPHg range hydrocarbons. Hydrocarbon concentrations detected in soil are primarily below SFB-RWQCB ESLs and do not pose a significant threat to human health or the environment.		
Petroleum Hydrocarbons in Groundwater		TPHg was detected in only one boring, MW-1 at 480 µg /L, and TPHd was detected in four borings at concentrations ranging from 75 to 620 µg /L; no benzene or methyl tert-butyl ether (MTBE) was detected in groundwater. Although TPHg and TPHd were detected at concentrations exceeding the RWQCB ESLs of 100 µg/L, the results indicate that the remaining dissolved hydrocarbon plume is limited in extent. In previous work conducted in 2007, TPHg and TPHd range hydrocarbons in soil had atypical chromatogram patterns not indicative of gasoline or diesel. Given that the former USTs were abandoned in the 1970's, remaining hydrocarbon mass is likely weathered and degraded. The remaining TPHg and TPHd hydrocarbons in groundwater, along with heavier (longer-chain) hydrocarbons detected in the TPH as motor oil and total oil and grease ranges beneath the site are not as soluble as unweathered product, and plume lengths are not as significant. ¹ In technical guidance provided by the SWRCB for the LTCP, the average TPHg plume length based on empirical data is approximately 250 feet where sufficient dissolved TPHg-range hydrocarbons, including benzene and MTBE, are present to migrate. The characteristics of the petroleum hydrocarbons detected beneath the site suggest that the hydrocarbon plume is likely stable and less than 250 feet in length.		
Risk Evaluation		The site is a former gasoline service station and is currently vacant. There are no structures on the property except for foundations of former buildings. The owner hopes to develop the property for mixed commercial-residential use in the future, but there are currently no plans for development. Current site conditions pose a low risk, and the site meets the criteria of the SWRCB LTCP.		

¹ State Water Resources Control Board, Technical Justification for Groundwater Plume Lengths, Indicator Constituents, Concentrations, and Buffer Distances (Separation Distances) to Receptors, July 12, 2011.

Appendix C

ACPWA Permit Document

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
—Alameda County—

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

Application Approved on: 09/17/2014 By jamesy

Permit Numbers: W2014-0856 to W2014-0859
Permits Valid from 09/29/2014 to 10/02/2014

Application Id: 1410476678990
Site Location: 7600 MacArthur Blvd (vacant lot on SE corner of MacArthur Blvd and 76th Street)
Project Start Date: 09/29/2014
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland
Completion Date:10/02/2014

Applicant: Conestoga-Rovers & Associates - Laura Heberle Phone: 916-889-8918

Property Owner: 10969 Trade Center Drive, Suite 107, Rancho Cordova, CA 95670
Hong Gardner (Avalon Nguyen Gardner Living Trust) Phone: 510-776-2304

Client: 632 Via Rialto Road, Oakland, CA 94619
(TW Oakland site) Chevron Environmental Management Company Phone: --

Contact: 6101 Bollinger Canyon Road, San Ramon, CA 94583
Laura Heberle Phone: 916-889-8918
Cell: 916-919-0419

Receipt Number: WR2014-0380 Total Due: \$1456.00
Payer Name : L A Heberle Total Amount Paid: \$1456.00
Paid By: VISA PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 7 Boreholes
Driller: Woodward Drilling - Lic #: 710079 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2014-0856	09/17/2014	12/28/2014	7	2.00 in.	25.00 ft

Specific Work Permit Conditions

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

Alameda County Public Works Agency - Water Resources Well Permit

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

6. NOTE:

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

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

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

Well Construction-Monitoring-Monitoring - 3 Wells

Driller: Woodward Drilling - Lic #: 710079 - Method: hstem

Work Total: \$1191.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2014-0857	09/17/2014	12/28/2014	MW-1	5.00 in.	2.00 in.	19.00 ft	30.00 ft
W2014-0858	09/17/2014	12/28/2014	MW-2	5.00 in.	2.00 in.	19.00 ft	30.00 ft
W2014-0859	09/17/2014	12/28/2014	MW-3	5.00 in.	2.00 in.	19.00 ft	30.00 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. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
 5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
 6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
 7. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
 9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

Appendix D

Boring Logs



Conestoga-Rovers & Associates
 10969 Trade Center Drive suite 107
 Rancho Cordova, CA 95670
 Telephone: (916) 889-8900
 Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	MW-1
JOB/SITE NAME	TW Oakland	DRILLING STARTED	07-Oct-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	07-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	89.96 ft above msl
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	89.45 ft above msl
BORING DIAMETER	8 inches	SCREENED INTERVAL	30 to 35 fbg
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	34.0 fbg (07-Oct-14)
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8fbg. First boring drilled with continuous core direct push; overdrilled with 8 inch augers for well construction		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		MW1-5		5			Clay with sand: little gravel; very dark greyish brown; dry; med-fine gravel, fine sand; soft; low estimated plasticity.		
							@ 7 fbg: dark brown; fine gravel, coarse sand; firm.		
		MW1-10		10			Clay with sand: dark grey; dry; coarse sand; soft; low estimated plasticity.		
							@ 11 fbg: dark brown; firm.		
0		MW1-15		15	CL				
							Clay with sand: little gravel; very dark greyish brown; dry; coarse sand, fine gravel; stiff; low estimated plasticity.		
2		MW1-20		20					
									Portland Type I/II
		MW1-25		25					
							Gravelly clay with sand: dark yellowish brown; moist; medium coarse sand, medium coarse gravel; firm; medium estimated plasticity.		
		MW1-30		30					Bentonite Seal
1.5									Monterey Sand #2/12
		MW1-35		35			Gravelly clay with sand: dark yellowish brown; moist to wet; coarse sand, medium coarse gravel.		
								35.0	2"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 35 fbg

WELL LOG (PID) I:\PROJECTS\216-CHAR06\---0621-1062164-106388C-11062164.GPJ DEFAULT.GDT 11/19/14



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BORING/WELL LOG

CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	MW-2
JOB/SITE NAME	TW Oakland	DRILLING STARTED	03-Oct-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	03-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	90.77 ft above msl
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	90.35 ft above msl
BORING DIAMETER	8 inches	SCREENED INTERVAL	30 to 35 fbg
LOGGED BY	B. Summersett	DEPTH TO WATER (First Encountered)	33.0 fbgNA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	29.2 fbg (03-Oct-14)
REMARKS	Hand cleared to 8fbg. First boring drilled with continuous core direct push; overdrilled with 8 inch augers for well construction		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM		Silty sand: brown; dry	3.0	<p>Portland Type I/II 2" diam., Schedule 40 PVC</p> <p>Bentonite Seal</p> <p>Monterey Sand #2/12</p> <p>2"-diam., 0.020" Slotted Schedule 40 PVC</p> <p>Portland Type I/II</p> <p>Bottom of Boring @ 36.5 fbg</p>
0.0		MW-2-5		5			Clay: trace sand; trace gravel; black; dry; low to medium estimated plasticity	7.0	
3.3		MW-2-10		10			@ 7 fbg: crumbly clay with few sand trace gravel @ 8 fbg: clay trace sand and gravel; low estimated plasticity	8.0	
4.2		MW-2-15		15			Sandy clay with gravel: coarse sand and few gravel; brown; low estimated plasticity	15.0	
3.5		MW-2-20		20	CL		Clay: few sand; no gravel; brown with light brown mottling; low estimated plasticity	18.0	
0.0		MW-2-25		25			Clay with sand: little gravel; brown; stiff; low estimated plasticity	23.0	
1.7		MW-2-30		30			Gravelly clay: angular gravel and trace sand; dry; low estimated plasticity @ 30 fbg: moist	28.0	
							Sandy clay with gravel: brown; wet; medium estimated plasticity	33.0	
		MW-2-35.5		35			@ 35 fbg: clay with gravel; wet	35.0	
								36.5	

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BORING/WELL LOG

CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	MW-3
JOB/SITE NAME	TW Oakland	DRILLING STARTED	30-Sep-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	07-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	90.72 ft above msl
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	90.45 ft above msl
BORING DIAMETER	8 inches	SCREENED INTERVAL	19.5 to 34.5 fbg
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8fbg. First boring drilled with continuous core direct push; overdrilled with 8 inch augers for well construction		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Clay with gravel and sand: yellowish brown; dry; well sorted		
		MW3-5		5			Clay: very dark greyish brown; trace sand; no gravel; trace oxide fines; stiff; low estimated plasticity	3.0	
1.0		MW3-1 0		10			@ 7 fbg: color change to dark yellowish brown; few sand; trace gravel; firm	7.0	
0.5		MW3-1 5		15			@ 17 fbg: few medium to coarse sand; no gravel; stiff	17.0	<p>Portland Type I/II 2" diam., Schedule 40 PVC Bentonite Seal Monterey Sand #2/12</p>
0.5				20	CL			23.0	
		MW3-2 8		28			Clay with sand: little gravel; little medium to coarse sand; few fine gravel; dark yellowish brown; moist; medium estimated plasticity		
0.5		MW3-3 0		30					<p>2"-diam., 0.020" Slotted Schedule 40 PVC</p>
2.0		MW3-3 5		35			Gravelly clay with sand: increase medium to coarse gravel; dark yellowish brown; moist; hard; medium estimated plasticity	32.0	
							Clay: trace coarse sand and trace fine gravel; dark yellowish brown; damp; stiff; high estimated plasticity	35.0	Bottom of Boring @ 35 fbg

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CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-1
JOB/SITE NAME	TW Oakland	DRILLING STARTED	30-Sep-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	01-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1		BH1-5		5			Sandy silt: little gravel; light olive brown; dry; medium stiff; low estimated plasticity	4.0	
0		BH1-10		10		Clay: little sand; very dark grey; dry; low estimated plasticity @ 5 fbg: trace sand; trace gravel; color change to very dark greyish brown; crumbly; stiff; low estimated plasticity	5.0		
0		BH1-15		15		@ 12 fbg: no sand; little gravel; color change to dark brown; medium estimated plasticity	12.0		
0		BH1-20		20	CL	@ 15 fbg: color change to very dark greyish brown; soft; low estimated plasticity	15.0		
0		BH1-25		25		@ 17 fbg: few fine gravel; color change to dark reddish brown; stiff	17.0		
0		BH1-30		30		Clay with sand: little gravel; coarse sand; brown; hard; low estimated plasticity	24.0		
0		BH1-35		35		@ 34 fbg: moist; firm	34.0		
								35.0	Bottom of Boring @ 35 fbg

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Conestoga-Rovers & Associates
 10969 Trade Center Drive suite 107
 Rancho Cordova, CA 95670
 Telephone: (916) 889-8900
 Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-2
JOB/SITE NAME	TW Oakland	DRILLING STARTED	30-Sep-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	02-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		BH2-5		5			Gravel with sand: trace clay; brown; dry	3.0	
0		BH-2-10		10			Clay: trace sand; very dark brown; dry; medium stiff; low estimated plasticity	7.0	
0		BH-2-15		15	CL		Sandy clay with gravel: dark brown; dry; crumbly; low estimated plasticity	11.0	
0							Clay: trace coarse sand; no gravel; dry	16.0	
7.7		BH-2-20		20			@ 16 fbg: grey mottling	20.0	
							@ 20 fbg: trace gravel Clay: trace sand and gravel; dark brown; dry	22.0	
							Refusal @ 26 fbg	26.0	

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BORING/WELL LOG

CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-3
JOB/SITE NAME	TW Oakland	DRILLING STARTED	30-Sep-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	08-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0							Clay with gravel: little sand; yellowish brown; dry	2.0	
		BH3-5		5			Clay: no gravel; very dark greyish brown; stiff; medium estimated plasticity	7.0	
							@ 7 fbg: color change to dark yellowish brown	8.0	
							@ 8 fbg: color change to brown		
1.8		BH3-10		10				13.0	
							Clay with sand: little gravel; brown; dry; low estimated plasticity	17.0	
2.4		BH3-15		15	CL			19.0	
							Clay: no gravel; brown; dry; medium estimated plasticity		
							@ 19 fbg: stiff; low estimated plasticity		
		BH3-20		20				30.0	
								30.0	
		BH3-25		25					
		BH3-30		30			Refusal @ 30 fbg		

WELL LOG (PID) I:\PROJECT-216-CHAR06-0621-062164-106388C-1062164.GPJ DEFAULT.GDT 11/19/14



CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-4
JOB/SITE NAME	TW Oakland	DRILLING STARTED	01-Oct-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	08-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0		BH4-5		5			Clay with sand: few fine sand; few fine to medium gravel; very dark greyish brown; dry; soft; low estimated plasticity		
1.4		BH4-10		10			Sandy clay with gravel: brown; dry; low estimated plasticity	8.0	
2.8		BH4-15		15			Clay with sand: few sand; trace gravel; brown; dry; medium estimated plasticity Clay: little sand; brown; dry; medium estimated plasticity	11.0 12.0	
2.6		BH4-20		20	CL		@ 17 fbg: low estimated plasticity	17.0	← Portland Type I/II
3.0		BH4-25		25			@ 23 fbg: stiff	23.0	
1.4		BH4-30		30			@ 28 fbg: moist; medium estimated plasticity	28.0	
0.9		BH4-35		35			@ 31 fbg: decrease sand; high estimated plasticity	31.0	
								36.0	Bottom of Boring @ 36 fbg

WELL LOG (PID) I:\PROJECTS\216-CHAR\06-10621-1062164-106388C-11062164.GPJ DEFAULT.GDT 11/19/14



CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-5
JOB/SITE NAME	TW Oakland	DRILLING STARTED	30-Sep-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	07-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	B. Summersett, D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				1.0	ML SM		Silty sand: brown; dry Clay: trace sand and gravel; black; dry; stiff	1.0	
0.0		BH5-5		5			@ 6 fbg: clay; little sand; few angular gravel; brown; crumbly	6.0	
0.0		BH5-10		10			Sandy clay: little gravel; dark brown; dry; firm; low estimated plasticity @ 10 fbg: no gravel	10.0	
				15				17.0	
				18.0	CL		Gravelly clay with sand: coarse sand; dark brown; low estimated plasticity @ 18 fbg: moist	18.0	
				20.0			Clay: little fine sand; dark brown; dry; hard; low estimated plasticity	20.0	
				25					
0.0		BH5-30		30			@ 30 fbg: becomes hard to very hard; coarse sand	30.0	
				33.0	CL		Clay with sand: medium to coarse sand; dark brown; moist; hard; medium estimated plasticity	33.0	
		BH5-35		35				36.0	
									Bottom of Boring @ 36 fbg

WELL LOG (PID) I:\PROJEC-216-CHAR06-0621-062164-1062164.GPJ DEFAULT.GDT 11/19/14



Conestoga-Rovers & Associates
 10969 Trade Center Drive suite 107
 Rancho Cordova, CA 95670
 Telephone: (916) 889-8900
 Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-6
JOB/SITE NAME	TW Oakland	DRILLING STARTED	30-Sep-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	08-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0					GM		Silty gravel: fine to coarse gravel; trace sand; light olive brown; dry; loose	2.0	
		BH6-5		5			Clay: trace fine sand; very dark greyish brown; dry; stiff; medium estimated plasticity	5.5	
2.4		BH6-10		10			Sandy clay: few fine gravel; dark yellowish brown; dry; soft; low estimated plasticity	11.0	
							Clay: little sand; brown; dry; low estimated plasticity	16.0	
3.9		BH6-15		15	CL		Sandy clay with gravel: brown; dry; low estimated plasticity	19.0	
							Clay: few sand; brown; moist; medium estimated plasticity	22.0	
							@ 22 fbg: dry; low estimated plasticity	28.0	
							@ 28 fbg: few fine to coarse sand	30.0	
							@ 30 fbg: stiff	32.0	
2.8		BH6-30		30			Refusal @ 32 fbg	32.0	

WELL LOG (PID) I:\PROJECTS\216-CHAR\06-10621-062164-106388C-1062164.GPJ DEFAULT.GDT 11/19/14



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BORING/WELL LOG

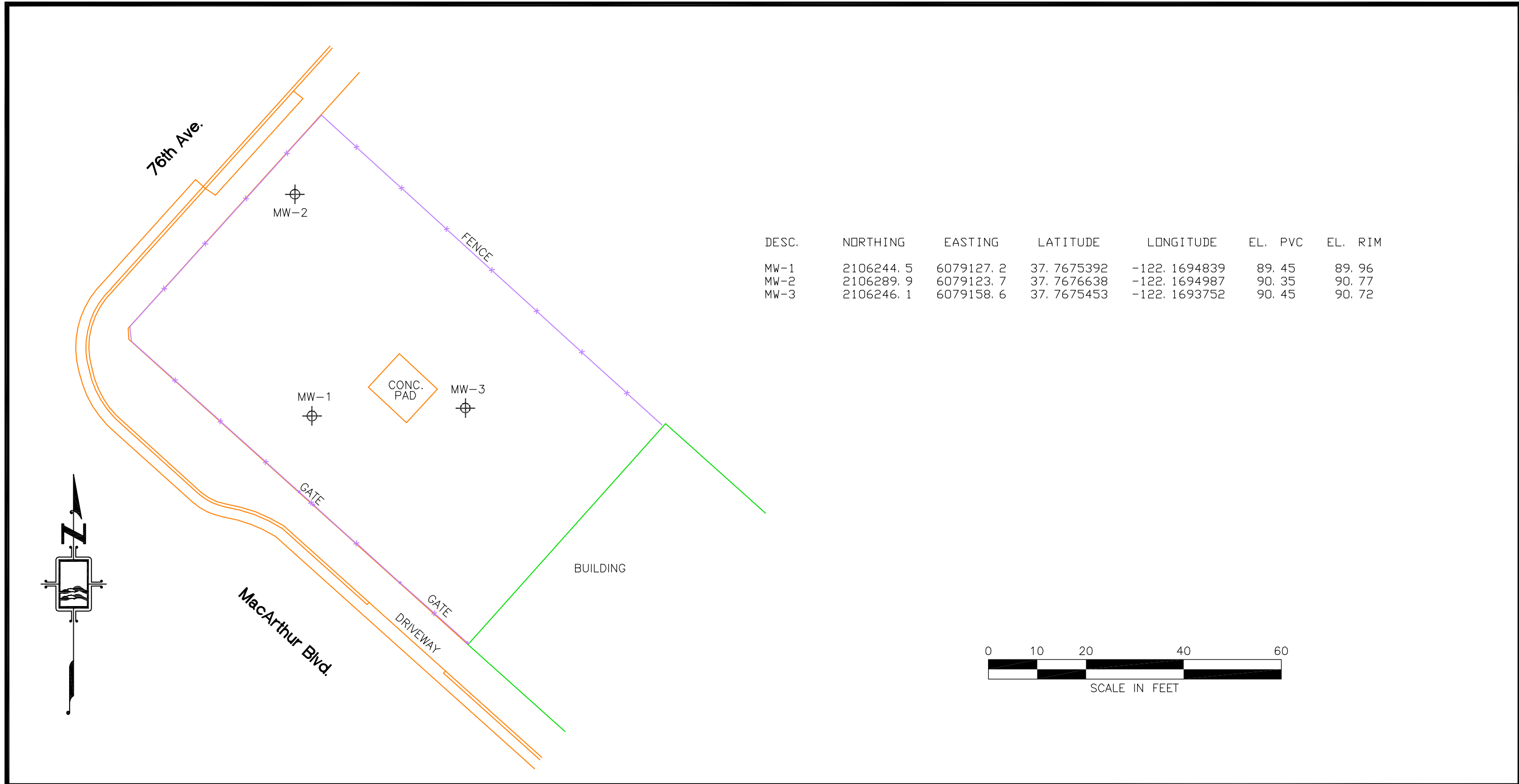
CLIENT NAME	Chevron Phillips 66	BORING/WELL NAME	BH-7
JOB/SITE NAME	TW Oakland	DRILLING STARTED	01-Oct-14
LOCATION	7600 MacArthur	DRILLING COMPLETED	02-Oct-14
PROJECT NUMBER	062164	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Woodward Drilling Co. Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct push - continuous core	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2 inches	SCREENED INTERVAL	NA
LOGGED BY	D. Smolko	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA
REMARKS	Hand cleared to 8 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SW		Sand: few silt; yellowish brown; dry; loose	1.0	
		BH7-5		5			Clay: few fine sand; very dark brown; dry; firm; high estimated plasticity	7.0	
0.0		BH7-1 0		10	CL		Clay with sand: few fine gravel; dark yellowish brown; dry; soft	12.0	
0.0		BH7-1 5		15			Clay: trace sand and gravel; brown; dry; stiff	17.0	
							Refusal @ 17 fbg	17.0	Bottom of Boring @ 17 fbg

WELL LOG (PID) I:\PROJEC-2\16-CHAR\06-10621-1062164-106388C-1062164.GPJ DEFAULT.GDT 11/19/14

Appendix E

Well Survey Data



DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. RIM
MW-1	2106244.5	6079127.2	37.7675392	-122.1694839	89.45	89.96
MW-2	2106289.9	6079123.7	37.7676638	-122.1694987	90.35	90.77
MW-3	2106246.1	6079158.6	37.7675453	-122.1693752	90.45	90.72



1255 Starboard Drive
 West Sacramento ~ CA ~ 95691
 Phone: 916-372-8124
 Fax: 916-372-8538
 Email: mark@morrrowsurveying.com
 www.morrrowsurveying.com

DATE: OCTOBER, 2014
 DATE SURVEYED: 10-8-14 MS
 SCALE: 1"=20'
 SHEET 1 OF 1
 FIELD BOOK: MW-59
 DRAWING NO. : 0857-188
 DRAWN BY: MAM

BASIS OF COORDINATES & ELEVATIONS:
 COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3
 COORDINATES FROM GPS OBSERVATIONS USING CSDS
 VIRTUAL SURVEY NETWORK.
 COORDINATE DATUM IS NAD 83.
 REFERENCE GEOID IS GEOID03.
 VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

MONITORING WELL EXHIBIT
 Prepared for:
 CRA

FORMER TIDEWATER SERVICE STATION
 7600 MacArthur Blvd.
 City of Oakland County of Alameda
 California

Appendix F

Laboratory Analytical Reports and Chains-of-Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

October 17, 2014

Project: 373378 Tidewater Oakland

Submittal Date: 10/01/2014
Group Number: 1507635
PO Number: 4072862
State of Sample Origin: CA

Client Sample Description

BH1-S-5-140930 NA Soil
BH2-S-5-140930 NA Soil
BH3-S-5-140930 NA Soil
MW3-S-5-140930 NA Soil

Lancaster Labs (LL) #

7620854
7620855
7620856
7620857

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: David Herzog
ELECTRONIC COPY TO	CRA	Attn: Laura Heberle

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: BH1-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620854
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 12:30 by DS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/01/2014 09:15

Suite 107

Reported: 10/17/2014 16:19

Rancho Cordova CA 95670

BH1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	0.008 J	0.007	0.97
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.97
10237	Benzene	71-43-2	N.D.	0.0005	0.97
10237	Bromobenzene	108-86-1	N.D.	0.001	0.97
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.97
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.97
10237	Bromoform	75-25-2	N.D.	0.001	0.97
10237	Bromomethane	74-83-9	N.D.	0.002	0.97
10237	2-Butanone	78-93-3	N.D.	0.004	0.97
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.97
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.97
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.97
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.97
10237	Chloroethane	75-00-3	N.D.	0.002	0.97
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.97
10237	Chloroform	67-66-3	N.D.	0.001	0.97
10237	Chloromethane	74-87-3	N.D.	0.002	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.97
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.97
10237	Dibromomethane	74-95-3	N.D.	0.001	0.97
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.97
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.97
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.97
10237	Ethanol	64-17-5	N.D.	0.097	0.97
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.97
10237	Freon 113	76-13-1	N.D.	0.002	0.97
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.97
10237	2-Hexanone	591-78-6	N.D.	0.003	0.97
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.97
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.97

Sample Description: BH1-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620854
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 12:30 by DS

Conestoga-Rovers & Associates

Submitted: 10/01/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:19

Suite 107

Rancho Cordova CA 95670

BH1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.97
10237	Methylene Chloride	75-09-2	0.003 J	0.002	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.97
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.97
10237	Styrene	100-42-5	N.D.	0.001	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.97
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.97
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.97
10237	m+p-Xylene	179601-23-1	0.003 J	0.001	0.97
10237	o-Xylene	95-47-6	0.001 J	0.001	0.97
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	0.01 J	0.003	1
10724	Anthracene	120-12-7	0.007 J	0.003	1
10724	Benzo(a)anthracene	56-55-3	0.017 J	0.003	1
10724	Benzo(a)pyrene	50-32-8	0.019	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	0.018	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	0.011 J	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	0.008 J	0.003	1
10724	Chrysene	218-01-9	0.017 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.018	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.008 J	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.012 J	0.003	1
10724	Pyrene	129-00-0	0.027	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.78
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	33	3.9	1

Sample Description: BH1-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620854
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 12:30 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

BH1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	24,000	4.41	1
06946	Barium	7440-39-3	94.5	0.0320	1
07914	Boron	7440-42-8	16.5	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.0320	1
01650	Calcium	7440-70-2	12,500	3.68	1
06951	Chromium	7440-47-3	45.8	0.107	1
06953	Copper	7440-50-8	70.4	0.320	1
01654	Iron	7439-89-6	39,400	16.2	5
06955	Lead	7439-92-1	14.5	0.485	1
01657	Magnesium	7439-95-4	7,650	1.62	1
06958	Manganese	7439-96-5	644	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	43.8	0.146	1
10145	Phosphorus	7723-14-0	128	0.311	1
12763	Silicon	7440-21-3	264	1.57	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	391	16.2	1
12003	Sulfur	7704-34-9	79.4	1.09	1
06969	Tin	7440-31-5	2.27 J	0.417	1
06970	Titanium	7440-32-6	288	0.165	1
06971	Vanadium	7440-62-2	140	0.0883	1
06972	Zinc	7440-66-6	64.1	0.252	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142751AA	10/02/2014 15:17	Chelsea B Stong	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 16:43	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14277SLA026	10/08/2014 06:39	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14277SLA026	10/06/2014 09:30	David S Schrum	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 18:41	Laura M Krieger	24.78
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 16:45	Mitchell R Washel	n.a.

Sample Description: BH1-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620854
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Project Name: 373378 Tidewater Oakland

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BH1-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142770013A	10/09/2014 02:03	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142770013A	10/06/2014 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142765708002	10/07/2014 21:27	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	142765708002	10/07/2014 21:22	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142765708002	10/07/2014 21:22	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:24	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142765708002	10/07/2014 21:22	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142765708002	10/06/2014 16:11	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142765708002	10/05/2014 21:17	Annamaria Kuhns	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH2-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620855
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 13:30 by DS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/01/2014 09:15

Suite 107

Reported: 10/17/2014 16:19

Rancho Cordova CA 95670

BH2-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.99
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	Bromobenzene	108-86-1	N.D.	0.001	0.99
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.99
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.99
10237	Bromoform	75-25-2	N.D.	0.001	0.99
10237	Bromomethane	74-83-9	N.D.	0.002	0.99
10237	2-Butanone	78-93-3	N.D.	0.004	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.99
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.99
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.99
10237	Chloroethane	75-00-3	N.D.	0.002	0.99
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.99
10237	Chloroform	67-66-3	N.D.	0.001	0.99
10237	Chloromethane	74-87-3	N.D.	0.002	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.99
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.99
10237	Dibromomethane	74-95-3	N.D.	0.001	0.99
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.99
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.99
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Freon 113	76-13-1	N.D.	0.002	0.99
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.99
10237	2-Hexanone	591-78-6	N.D.	0.003	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.99

Sample Description: BH2-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620855
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 13:30 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

BH2-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.99
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.99
10237	Styrene	100-42-5	N.D.	0.001	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.99
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.99
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.99
10237	o-Xylene	95-47-6	N.D.	0.001	0.99
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	0.007 J	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	0.007 J	0.003	1
10724	Benzo(a)pyrene	50-32-8	0.009 J	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	0.011 J	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	0.005 J	0.003	1
10724	Chrysene	218-01-9	0.008 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.006 J	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.005 J	0.003	1
10724	Phenanthrene	85-01-8	0.004 J	0.003	1
10724	Pyrene	129-00-0	0.009 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	24.25
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	23	3.9	1

Sample Description: BH2-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620855
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 13:30 by DS Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Submitted: 10/01/2014 09:15 Suite 107
 Reported: 10/17/2014 16:19 Rancho Cordova CA 95670

BH2-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,700	4.45	1
06946	Barium	7440-39-3	78.8	0.0324	1
07914	Boron	7440-42-8	7.06	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	4,730	3.72	1
06951	Chromium	7440-47-3	55.5	0.108	1
06953	Copper	7440-50-8	65.9	0.324	1
01654	Iron	7439-89-6	35,900	16.4	5
06955	Lead	7439-92-1	5.94	0.490	1
01657	Magnesium	7439-95-4	6,230	1.64	1
06958	Manganese	7439-96-5	503	0.0814	1
06960	Molybdenum	7439-98-7	0.399 J	0.167	1
06961	Nickel	7440-02-0	35.3	0.147	1
10145	Phosphorus	7723-14-0	136	0.314	1
12763	Silicon	7440-21-3	200	1.61	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	301	16.4	1
12003	Sulfur	7704-34-9	79.0	1.10	1
06969	Tin	7440-31-5	1.91 J	0.422	1
06970	Titanium	7440-32-6	313	0.167	1
06971	Vanadium	7440-62-2	144	0.0892	1
06972	Zinc	7440-66-6	46.1	0.255	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142751AA	10/02/2014 15:40	Chelsea B Stong	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 16:52	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14277SLA026	10/08/2014 07:04	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14277SLA026	10/06/2014 09:30	David S Schrum	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/06/2014 22:22	Laura M Krieger	24.25

Sample Description: BH2-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620855
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 13:30 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

BH2-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 16:53	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142770013A	10/09/2014 02:48	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142770013A	10/06/2014 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142765708002	10/07/2014 21:35	Katlin N Cataldi	5
01650	Calcium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142765708002	10/07/2014 21:35	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	142765708002	10/07/2014 21:31	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142765708002	10/07/2014 21:31	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:27	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142765708002	10/07/2014 21:31	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142765708002	10/06/2014 16:15	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142765708002	10/05/2014 21:17	Annamaria Kuhns	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620856
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 14:00 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

BH3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.96
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	Bromobenzene	108-86-1	N.D.	0.001	0.96
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.96
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.96
10237	Bromoform	75-25-2	N.D.	0.001	0.96
10237	Bromomethane	74-83-9	N.D.	0.002	0.96
10237	2-Butanone	78-93-3	N.D.	0.004	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.96
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.96
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.96
10237	Chloroethane	75-00-3	N.D.	0.002	0.96
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.96
10237	Chloroform	67-66-3	N.D.	0.001	0.96
10237	Chloromethane	74-87-3	N.D.	0.002	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.96
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.96
10237	Dibromomethane	74-95-3	N.D.	0.001	0.96
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.96
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.96
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	Freon 113	76-13-1	N.D.	0.002	0.96
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.96
10237	2-Hexanone	591-78-6	N.D.	0.003	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.96

Sample Description: BH3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620856
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 14:00 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

BH3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.96
10237	Methylene Chloride	75-09-2	0.002 J	0.002	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.96
10237	Styrene	100-42-5	N.D.	0.001	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.96
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.96
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.96
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.96
10237	o-Xylene	95-47-6	N.D.	0.001	0.96
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	0.006 J	0.003	1
10724	Benzo(a)pyrene	50-32-8	0.009 J	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	0.008 J	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	0.008 J	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	0.004 J	0.003	1
10724	Chrysene	218-01-9	0.006 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.004 J	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	0.003 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	14	4.0	1

Sample Description: BH3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620856
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 14:00 by DS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/01/2014 09:15 Suite 107
Reported: 10/17/2014 16:19 Rancho Cordova CA 95670

BH3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,900	4.50	1
06946	Barium	7440-39-3	60.6	0.0327	1
07914	Boron	7440-42-8	26.8	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.163	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	9,100	3.75	1
06951	Chromium	7440-47-3	56.7	0.109	1
06953	Copper	7440-50-8	79.0	0.327	1
01654	Iron	7439-89-6	41,000	16.5	5
06955	Lead	7439-92-1	0.835 J	0.495	1
01657	Magnesium	7439-95-4	8,770	1.65	1
06958	Manganese	7439-96-5	401	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	33.5	0.149	1
10145	Phosphorus	7723-14-0	86.6	0.317	1
12763	Silicon	7440-21-3	257	1.60	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	500	16.5	1
12003	Sulfur	7704-34-9	64.3	1.11	1
06969	Tin	7440-31-5	1.90 J	0.426	1
06970	Titanium	7440-32-6	475	0.168	1
06971	Vanadium	7440-62-2	175	0.0901	1
06972	Zinc	7440-66-6	34.4	0.257	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142751AA	10/02/2014 16:02	Chelsea B Stong	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 16:56	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14277SLA026	10/08/2014 07:29	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14277SLA026	10/06/2014 09:30	David S Schrum	1

Sample Description: BH3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620856
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 14:00 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

BH3-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/06/2014 22:58	Laura M Krieger	25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 16:57	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142770013A	10/06/2014 18:59	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142770013A	10/06/2014 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142765708002	10/07/2014 21:43	Katlin N Cataldi	5
01650	Calcium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142765708002	10/07/2014 21:43	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	142765708002	10/07/2014 21:39	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142765708002	10/07/2014 21:39	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:38	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142765708002	10/07/2014 21:39	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142765708002	10/06/2014 16:19	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142765708002	10/05/2014 21:17	Annamaria Kuhns	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14285659801A	10/16/2014 10:30	Yolunder Y Bunch	1

Sample Description: MW3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620857
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:00 by DS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/01/2014 09:15

Suite 107

Reported: 10/17/2014 16:19

Rancho Cordova CA 95670

MW3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.04
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.04
10237	Benzene	71-43-2	N.D.	0.0005	1.04
10237	Bromobenzene	108-86-1	N.D.	0.001	1.04
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.04
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.04
10237	Bromoform	75-25-2	N.D.	0.001	1.04
10237	Bromomethane	74-83-9	N.D.	0.002	1.04
10237	2-Butanone	78-93-3	N.D.	0.004	1.04
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.04
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.04
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.04
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.04
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.04
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.04
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.04
10237	Chloroethane	75-00-3	N.D.	0.002	1.04
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.04
10237	Chloroform	67-66-3	N.D.	0.001	1.04
10237	Chloromethane	74-87-3	N.D.	0.002	1.04
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.04
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.04
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.04
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.04
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.04
10237	Dibromomethane	74-95-3	N.D.	0.001	1.04
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.04
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.04
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.04
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.04
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.04
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.04
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.04
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.04
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.04
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.04
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.04
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.04
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.04
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.04
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.04
10237	Ethanol	64-17-5	N.D.	0.10	1.04
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.04
10237	Freon 113	76-13-1	N.D.	0.002	1.04
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.04
10237	2-Hexanone	591-78-6	N.D.	0.003	1.04
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.04
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.04
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.04

Sample Description: MW3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620857
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:00 by DS

Conestoga-Rovers & Associates

Submitted: 10/01/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:19

Suite 107

Rancho Cordova CA 95670

MW3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.04
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.04
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.04
10237	Naphthalene	91-20-3	N.D.	0.001	1.04
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.04
10237	Styrene	100-42-5	N.D.	0.001	1.04
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.04
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.04
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.04
10237	Toluene	108-88-3	N.D.	0.001	1.04
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.04
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.04
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.04
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.04
10237	Trichloroethene	79-01-6	N.D.	0.001	1.04
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.04
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.04
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.04
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.04
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.04
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.04
10237	o-Xylene	95-47-6	N.D.	0.001	1.04

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.017	5
10724	Acenaphthylene	208-96-8	N.D.	0.017	5
10724	Anthracene	120-12-7	N.D.	0.017	5
10724	Benzo(a)anthracene	56-55-3	0.018 J	0.017	5
10724	Benzo(a)pyrene	50-32-8	0.039 J	0.017	5
10724	Benzo(b)fluoranthene	205-99-2	0.029 J	0.017	5
10724	Benzo(g,h,i)perylene	191-24-2	0.024 J	0.017	5
10724	Benzo(k)fluoranthene	207-08-9	0.023 J	0.017	5
10724	Chrysene	218-01-9	0.022 J	0.017	5
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.017	5
10724	Fluoranthene	206-44-0	N.D.	0.017	5
10724	Fluorene	86-73-7	N.D.	0.017	5
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.021 J	0.017	5
10724	Naphthalene	91-20-3	N.D.	0.017	5
10724	Phenanthrene	85-01-8	N.D.	0.017	5
10724	Pyrene	129-00-0	N.D.	0.017	5

Reporting limits were raised due to interference from the sample matrix.

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25

GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620857
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:00 by DS

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

MW3-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	25,300	4.54	1
06946	Barium	7440-39-3	206	0.0330	1
07914	Boron	7440-42-8	20.2	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.165	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	8,320	3.79	1
06951	Chromium	7440-47-3	51.9	0.110	1
06953	Copper	7440-50-8	71.3	0.330	1
01654	Iron	7439-89-6	38,400	16.7	5
06955	Lead	7439-92-1	0.854 J	0.500	1
01657	Magnesium	7439-95-4	7,700	1.67	1
06958	Manganese	7439-96-5	1,750	0.415	5
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	42.1	0.150	1
10145	Phosphorus	7723-14-0	73.0	0.320	1
12763	Silicon	7440-21-3	264	1.57	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	521	16.7	1
12003	Sulfur	7704-34-9	65.6	1.12	1
06969	Tin	7440-31-5	2.02 J	0.430	1
06970	Titanium	7440-32-6	254	0.170	1
06971	Vanadium	7440-62-2	158	0.0910	1
06972	Zinc	7440-66-6	28.0	0.260	1
Wet Chemistry			mg/kg	mg/kg	
SW-846 9071B mod					
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142751AA	10/02/2014 16:25	Chelsea B Stong	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427435755	10/01/2014 17:23	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 17:05	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14277SLA026	10/08/2014 07:54	Holly Berry	5
10814	BNA Soil Microwave PAH	SW-846 3546	1	14277SLA026	10/06/2014 09:30	David S Schrum	1

Sample Description: MW3-S-5-140930 NA Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7620857
LL Group # 1507635
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:00 by DS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/01/2014 09:15

Reported: 10/17/2014 16:19

MW3-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/06/2014 23:35	Laura M Krieger	25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427435755	10/01/2014 17:06	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142770013A	10/06/2014 19:22	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142770013A	10/06/2014 09:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142765708002	10/07/2014 21:51	Katlin N Cataldi	5
01650	Calcium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142765708002	10/07/2014 21:51	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	142765708002	10/07/2014 21:47	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142765708002	10/07/2014 21:51	Katlin N Cataldi	5
06960	Molybdenum	SW-846 6010B	1	142765708002	10/07/2014 21:47	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:42	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142765708002	10/07/2014 21:47	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142765708002	10/06/2014 16:22	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142765708002	10/05/2014 21:17	Annamaria Kuhns	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14285659801A	10/16/2014 10:30	Yolunder Y Bunch	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:19 PM

Group Number: 1507635

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B142751AA	Sample number(s): 7620854-7620857							
Acetone	N.D.	0.007	mg/kg	99	98	53-141	1	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	91	94	63-130	4	30
Benzene	N.D.	0.0005	mg/kg	99	106	80-120	7	30
Bromobenzene	N.D.	0.001	mg/kg	97	104	78-120	8	30
Bromochloromethane	N.D.	0.001	mg/kg	103	103	80-128	0	30
Bromodichloromethane	N.D.	0.001	mg/kg	92	95	75-120	4	30
Bromoform	N.D.	0.001	mg/kg	88	89	70-126	1	30
Bromomethane	N.D.	0.002	mg/kg	84	91	32-162	8	30
2-Butanone	N.D.	0.004	mg/kg	101	99	62-123	2	30
t-Butyl alcohol	N.D.	0.020	mg/kg	97	103	72-125	6	30
n-Butylbenzene	N.D.	0.001	mg/kg	103	112	72-120	8	30
sec-Butylbenzene	N.D.	0.001	mg/kg	105	116	69-120	10	30
tert-Butylbenzene	N.D.	0.001	mg/kg	101	109	75-120	8	30
Carbon Disulfide	N.D.	0.001	mg/kg	84	89	63-128	6	30
Carbon Tetrachloride	N.D.	0.001	mg/kg	93	98	69-130	5	30
Chlorobenzene	N.D.	0.001	mg/kg	101	106	80-120	4	30
Chloroethane	N.D.	0.002	mg/kg	83	91	17-171	9	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/kg	70	70	64-124	0	30
Chloroform	N.D.	0.001	mg/kg	101	103	80-125	2	30
Chloromethane	N.D.	0.002	mg/kg	87	95	56-120	8	30
2-Chlorotoluene	N.D.	0.001	mg/kg	100	104	78-120	5	30
4-Chlorotoluene	N.D.	0.001	mg/kg	100	108	79-120	7	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/kg	97	98	59-122	0	30
Dibromochloromethane	N.D.	0.001	mg/kg	97	100	77-120	4	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	102	103	80-120	2	30
Dibromomethane	N.D.	0.001	mg/kg	97	98	80-120	1	30
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	100	105	80-120	5	30
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	96	104	80-120	8	30
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	96	104	80-120	8	30
Dichlorodifluoromethane	N.D.	0.002	mg/kg	93	100	26-137	6	30
1,1-Dichloroethane	N.D.	0.001	mg/kg	99	104	80-122	5	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	98	100	77-130	1	30
1,1-Dichloroethene	N.D.	0.001	mg/kg	95	103	73-129	7	30
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	102	107	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	98	108	80-129	10	30
1,2-Dichloropropane	N.D.	0.001	mg/kg	97	100	80-120	3	30
1,3-Dichloropropane	N.D.	0.001	mg/kg	103	106	80-120	3	30
2,2-Dichloropropane	N.D.	0.001	mg/kg	89	96	72-123	8	30
1,1-Dichloropropene	N.D.	0.001	mg/kg	101	108	80-126	7	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	94	99	74-120	5	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	96	103	76-120	7	30
Ethanol	N.D.	0.10	mg/kg	83	90	46-146	7	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	92	98	70-122	6	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:19 PM

Group Number: 1507635

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethylbenzene	N.D.	0.001	mg/kg	101	111	80-120	9	30
Freon 113	N.D.	0.002	mg/kg	85	93	64-137	9	30
Hexachlorobutadiene	N.D.	0.002	mg/kg	98	105	46-130	7	30
2-Hexanone	N.D.	0.003	mg/kg	105	105	51-120	0	30
di-Isopropyl ether	N.D.	0.001	mg/kg	98	101	77-123	3	30
Isopropylbenzene	N.D.	0.001	mg/kg	101	112	76-120	10	30
p-Isopropyltoluene	N.D.	0.001	mg/kg	101	109	69-120	8	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	95	101	76-122	6	30
4-Methyl-2-pentanone	N.D.	0.003	mg/kg	95	93	57-123	3	30
Methylene Chloride	N.D.	0.002	mg/kg	105	109	80-124	4	30
Naphthalene	N.D.	0.001	mg/kg	95	98	64-120	3	30
n-Propylbenzene	N.D.	0.001	mg/kg	105	114	77-120	9	30
Styrene	N.D.	0.001	mg/kg	103	112	76-120	9	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/kg	99	103	80-120	5	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	104	103	71-123	0	30
Tetrachloroethene	N.D.	0.001	mg/kg	98	109	78-120	11	30
Toluene	N.D.	0.001	mg/kg	102	110	80-120	7	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/kg	94	98	64-120	4	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/kg	92	98	68-120	6	30
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	86	92	63-135	7	30
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	106	107	80-120	1	30
Trichloroethene	N.D.	0.001	mg/kg	96	105	80-125	8	30
Trichlorofluoromethane	N.D.	0.002	mg/kg	93	100	58-133	7	30
1,2,3-Trichloropropane	N.D.	0.001	mg/kg	104	106	71-123	1	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/kg	104	112	79-120	7	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/kg	106	114	78-120	8	30
Vinyl Chloride	N.D.	0.001	mg/kg	92	104	59-120	12	30
m+p-Xylene	N.D.	0.001	mg/kg	104	113	80-120	8	30
o-Xylene	N.D.	0.001	mg/kg	101	109	80-120	7	30

Batch number: 14277SLA026

Sample number(s): 7620854-7620857

Acenaphthene	N.D.	0.003	mg/kg	101		83-111		
Acenaphthylene	N.D.	0.003	mg/kg	115		83-127		
Anthracene	N.D.	0.003	mg/kg	103		82-118		
Benzo(a)anthracene	N.D.	0.003	mg/kg	103		76-119		
Benzo(a)pyrene	N.D.	0.003	mg/kg	102		84-122		
Benzo(b)fluoranthene	N.D.	0.003	mg/kg	110		78-129		
Benzo(g,h,i)perylene	N.D.	0.003	mg/kg	103		77-121		
Benzo(k)fluoranthene	N.D.	0.003	mg/kg	91		79-120		
Chrysene	N.D.	0.003	mg/kg	102		77-116		
Dibenz(a,h)anthracene	N.D.	0.003	mg/kg	107		81-123		
Fluoranthene	N.D.	0.003	mg/kg	102		75-118		
Fluorene	N.D.	0.003	mg/kg	104		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	mg/kg	103		76-122		
Naphthalene	N.D.	0.003	mg/kg	97		77-115		
Phenanthrene	N.D.	0.003	mg/kg	97		80-114		
Pyrene	N.D.	0.003	mg/kg	98		81-114		

Batch number: 14279A31A
TPH-GRO N. CA soil C6-C12

Sample number(s): 7620855-7620857
N.D. 1.0 mg/kg 73

73-120

Batch number: 14281A16A
TPH-GRO N. CA soil C6-C12

Sample number(s): 7620854
N.D. 0.5 mg/kg 98

103

73-120

5

30

Batch number: 142770013A
TPH-DRO soil C10-C28 microwave

Sample number(s): 7620854-7620857
N.D. 4.0 mg/kg 87

81-121

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:19 PM

Group Number: 1507635

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 142765708002	Sample number(s): 7620854-7620857							
Aluminum	9.47 J	4.54	mg/kg	108		80-120		
Barium	N.D.	0.0330	mg/kg	100		80-120		
Boron	1.72 J	0.840	mg/kg	98		80-120		
Cadmium	N.D.	0.0330	mg/kg	101		80-120		
Calcium	27.6	3.79	mg/kg	104		80-120		
Chromium	N.D.	0.110	mg/kg	98		80-120		
Copper	N.D.	0.330	mg/kg	101		80-120		
Iron	N.D.	3.34	mg/kg	101		80-120		
Lead	N.D.	0.500	mg/kg	98		80-120		
Magnesium	2.05 J	1.67	mg/kg	101		80-120		
Manganese	N.D.	0.0830	mg/kg	100		80-120		
Molybdenum	N.D.	0.170	mg/kg	100		80-120		
Nickel	N.D.	0.150	mg/kg	104		80-120		
Phosphorus	1.34 J	0.320	mg/kg	102		80-120		
Silver	N.D.	0.190	mg/kg	87		80-120		
Sodium	N.D.	16.7	mg/kg	101		80-120		
Sulfur	1.24 J	1.12	mg/kg	97		80-120		
Tin	1.36 J	0.430	mg/kg	99		80-120		
Titanium	N.D.	0.170	mg/kg	101		80-120		
Vanadium	N.D.	0.0910	mg/kg	100		80-120		
Zinc	0.742 J	0.260	mg/kg	100		80-120		
Batch number: 142825708003	Sample number(s): 7620854-7620857							
Silicon	2.26 J	1.63	mg/kg	103		80-120		
Batch number: 14285659801A	Sample number(s): 7620856-7620857							
HEM-SGT-Solids	N.D.	200.	mg/kg	104		72-111		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 14277SLA026	Sample number(s): 7620854-7620857 UNSPK: P620530								
Acenaphthene	94	90	55-132	5	30				
Acenaphthylene	111	103	53-143	6	30				
Anthracene	99	110	42-147	9	30				
Benzo(a)anthracene	126	169*	32-150	16	30				
Benzo(a)pyrene	153*	141	36-151	4	30				
Benzo(b)fluoranthene	142	169*	29-150	9	30				
Benzo(g,h,i)perylene	160*	114	41-147	19	30				
Benzo(k)fluoranthene	123	99	35-146	14	30				
Chrysene	120	152*	28-146	13	30				
Dibenz(a,h)anthracene	113	86	54-142	22	30				
Fluoranthene	108	227*	41-135	35*	30				
Fluorene	97	94	55-128	3	30				
Indeno(1,2,3-cd)pyrene	131	116	44-147	7	30				
Naphthalene	92	98	44-142	5	30				
Phenanthrene	85	188*	42-141	44*	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:19 PM

Group Number: 1507635

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Pyrene	151*	246*	37-140	22	30			
Batch number: 14279A31A TPH-GRO N. CA soil C6-C12	84	83	39-118	13	30			
Sample number(s): 7620855-7620857 UNSPK: P625175								
Batch number: 142770013A TPH-DRO soil C10-C28 microwave	78		35-129		N.D.	N.D.	0 (1)	20
Sample number(s): 7620854-7620857 UNSPK: P622285 BKG: P622285								
Batch number: 142765708002 Aluminum	1467 (2)	1750 (2)	75-125	6	20	5,540	5,330	4 20
Sample number(s): 7620854-7620857 UNSPK: P622105 BKG: P622105								
Barium	96	95	75-125	1	20	56.0	66.5	17 20
Boron	103	122*	84-110	14	20	32.5	33.5	3 20
Cadmium	89	91	75-120	1	20	0.533	0.609	13 (1) 20
Calcium	-662 (2)	6536 (2)	75-125	24*	20	107,000	100,000	7 20
Chromium	83	65*	75-125	7	20	34.9	24.2	36* 20
Copper	198 (2)	16 (2)	75-125	28*	20	137	147	7 20
Iron	7553 (2)	-3892 (2)	75-125	38*	20	28,300	17,100	49* 20
Lead	33 (2)	45 (2)	75-125	3	20	60.2	55.6	8 20
Magnesium	-293 (2)	2148 (2)	75-125	9	20	53,400	49,600	7 20
Manganese	45 (2)	-53 (2)	75-125	9	20	552	565	2 20
Molybdenum	97	98	82-110	1	20	3.58	2.58	33* (1) 20
Nickel	67*	60*	75-125	4	20	43.8	27.8	45* 20
Phosphorus	48*	94	75-125	12	20	315	294	7 20
Silver	93	94	75-125	1	20	N.D.	N.D.	0 (1) 20
Sodium	101	113	75-125	9	20	227	171	28* (1) 20
Sulfur	-351 (2)	-174 (2)	80-120	17	20	1,280	992	26* 20
Tin	93	93	75-110	1	20	4.12 J	4.11 J	0 (1) 20
Titanium	162*	157*	75-125	2	20	115	120	4 20
Vanadium	102	104	75-125	1	20	15.5	15.4	1 20
Zinc	1262 (2)	65 (2)	75-125	74*	20	472	445	6 20
Batch number: 142825708003 Silicon	21*	27*	75-125	2	20	210	247	16 20
Sample number(s): 7620854-7620857 UNSPK: P625177 BKG: P625177								
Batch number: 14285659801A HEM-SGT-Solids	92	80	22-125	13	20	333 J	331 J	1 (1) 20
Sample number(s): 7620856-7620857 UNSPK: P631547 BKG: P631547								

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Full List + Sep Xylenes

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:19 PM

Group Number: 1507635

Surrogate Quality Control

Batch number: B142751AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7620854	107	117	108	101
7620855	105	111	109	97
7620856	108	111	107	102
7620857	108	114	104	100
Blank	103	106	107	100
LCS	103	104	110	108
LCSD	98	103	110	109
Limits:	50-141	54-135	52-141	50-131

Analysis Name: PAH's 8270C Soil
Batch number: 14277SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7620854	87	92	100
7620855	87	91	101
7620856	87	88	103
7620857	81	85	95
Blank	90	96	110
LCS	89	94	105
MS	83	91	99
MSD	77	85	91
Limits:	54-123	63-124	61-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14279A31A

	Trifluorotoluene-F
7620855	78
7620856	72
7620857	74
Blank	100
LCS	79
MS	68
MSD	68
Limits:	50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14281A16A

	Trifluorotoluene-F
7620854	89
Blank	101
LCS	96
LCSD	101
Limits:	50-142

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142770013A

	Orthoterphenyl
7620854	74
7620855	74
7620856	69
7620857	66
Blank	84
DUP	81
LCS	83

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:19 PM

Group Number: 1507635

Surrogate Quality Control

MS 77
Limits: 54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 13534 Group # 1507635 Sample # 7620854-57
 For Lancaster Laboratories use only
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks											
Facility # <u>WBS</u> <u>Chevron # 373378 Phillips 66 #5677</u> Site Address <u>7600 MacArthur Blvd Oakland CA</u> Chevron PM <u>Jillian Holloway</u> Lead Consultant Consultant/Office <u>CHA Rancho Cordova</u> Consultant Project Mgr. <u>David Herzog dherzog@crworld</u> Consultant Phone # <u>916 899-8902</u> <u>Lheberle@crworld</u> Sampler <u>Danell Smolke</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil			Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH 8015 MOD DRO Silica Gel Cleanup 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method <u>TOG 1064A</u> <u>PAHs 8270</u> <u>Metals Filter 22 6010</u> <u>Wear Metals per D. Smolke 9/30/14</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits											
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	TPH GRO	8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	TOG	PAHs	Metals Filter 22	Wear Metals per D. Smolke	9/30/14	
Date	Time																											
<u>BH1-5'</u>	<u>9/30/14</u>	<u>1230</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>BH2-5'</u>	<u>9/30/14</u>	<u>130</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>BH3-5'</u>	<u>9/30/14</u>	<u>206</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>MW3-5'</u>	<u>9/30/14</u>	<u>300</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5</u> day 4 day 72 hour 48 hour 24 hour				Relinquished by <u>Danell Smolke</u> Date <u>9/30/14</u> Time <u>300</u>			Relinquished by <u>HE</u> Date <u>9/30/14</u> Time <u>1600</u>			Received by <u>[Signature]</u> Date <u>9/30/14</u> Time <u>1500</u>			Received by <u>FE</u> Date _____ Time _____															
8 Data Package Options (please circle if required) Type I - Full Type VI (Raw Data)				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____			Received by <u>[Signature]</u> Date <u>10-1-14</u> Time <u>915</u>			Temperature Upon Receipt <u>15</u> °C			Custody Seals Intact? <u>Yes</u> No															

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

October 21, 2014

Project: 373378 Tidewater Oakland

Submittal Date: 10/04/2014
Group Number: 1508596
PO Number: 4072862
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW2-S-30-141002 Grab Soil	7625150
MW2-S-35.5-141002 Grab Soil	7625151
MW2-W-141002 Grab Water	7625152
MW3-S-10-141003 Grab Soil	7625153
MW3-S-15-141003 Grab Soil	7625154
MW3-S-20-141003 Grab Soil	7625155
MW3-S-28-141003 Grab Soil	7625156
MW3-S-30-141003 Grab Soil	7625157
MW3-S-35-141003 Grab Soil	7625158

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: David Herzog
ELECTRONIC COPY TO	CRA	Attn: Laura Heberle

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: MW2-S-30-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625150
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 15:20 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW2-S-30-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625150
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 15:20 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25.23
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW2-S-30-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625150
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 15:20 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	26,700	4.41	1
06946	Barium	7440-39-3	95.2	0.0320	1
07914	Boron	7440-42-8	7.29	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.0320	1
01650	Calcium	7440-70-2	6,800	3.68	1
06951	Chromium	7440-47-3	47.6	0.107	1
06953	Copper	7440-50-8	76.9	0.320	1
01654	Iron	7439-89-6	38,700	16.2	5
06955	Lead	7439-92-1	9.14	0.485	1
01657	Magnesium	7439-95-4	9,090	1.62	1
06958	Manganese	7439-96-5	754	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	47.9	0.146	1
10145	Phosphorus	7723-14-0	90.4	0.311	1
12763	Silicon	7440-21-3	265	1.58	1
06966	Silver	7440-22-4	2.91	0.184	1
01667	Sodium	7440-23-5	412	16.2	1
12003	Sulfur	7704-34-9	11.0 J	1.09	1
06969	Tin	7440-31-5	1.92 J	0.417	1
06970	Titanium	7440-32-6	385	0.165	1
06971	Vanadium	7440-62-2	161	0.0883	1
06972	Zinc	7440-66-6	49.8	0.252	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 15:33	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:06	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/09/2014 22:18	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 00:11	Laura M Krieger	25.23

Sample Description: MW2-S-30-141002 Grab Soil
Facility# 373378 CRAW
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LL Sample # SW 7625150
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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:07	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/09/2014 23:57	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 20:01	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 20:32	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
12763	Silicon	SW-846 6010B	2	142825708002	10/10/2014 15:35	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 20:01	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 08:39	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW2-S-35.5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625151
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:15 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

2355-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.03
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.03
10237	Benzene	71-43-2	N.D.	0.0005	1.03
10237	Bromobenzene	108-86-1	N.D.	0.001	1.03
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.03
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.03
10237	Bromoform	75-25-2	N.D.	0.001	1.03
10237	Bromomethane	74-83-9	N.D.	0.002	1.03
10237	2-Butanone	78-93-3	N.D.	0.004	1.03
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.03
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.03
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.03
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.03
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.03
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.03
10237	Chloroethane	75-00-3	N.D.	0.002	1.03
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.03
10237	Chloroform	67-66-3	N.D.	0.001	1.03
10237	Chloromethane	74-87-3	N.D.	0.002	1.03
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.03
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.03
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.03
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.03
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.03
10237	Dibromomethane	74-95-3	N.D.	0.001	1.03
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.03
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.03
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.03
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.03
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.03
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.03
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.03
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.03
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.03
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.03
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.03
10237	Ethanol	64-17-5	N.D.	0.10	1.03
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.03
10237	Freon 113	76-13-1	N.D.	0.002	1.03
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.03
10237	2-Hexanone	591-78-6	N.D.	0.003	1.03
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.03
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.03
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.03

Sample Description: MW2-S-35.5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625151
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

2355-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.03
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.03
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.03
10237	Naphthalene	91-20-3	N.D.	0.001	1.03
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.03
10237	Styrene	100-42-5	N.D.	0.001	1.03
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.03
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.03
10237	Toluene	108-88-3	N.D.	0.001	1.03
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.03
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.03
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.03
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.03
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.03
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.03
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.03
10237	o-Xylene	95-47-6	N.D.	0.001	1.03
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25.41
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW2-S-35.5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625151
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

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Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

2355-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,500	4.37	1
06946	Barium	7440-39-3	111	0.0317	1
07914	Boron	7440-42-8	7.50	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0317	1
01650	Calcium	7440-70-2	4,650	3.64	1
06951	Chromium	7440-47-3	49.1	0.106	1
06953	Copper	7440-50-8	43.2	0.317	1
01654	Iron	7439-89-6	29,800	16.1	5
06955	Lead	7439-92-1	8.53	0.481	1
01657	Magnesium	7439-95-4	5,160	1.61	1
06958	Manganese	7439-96-5	696	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	41.8	0.144	1
10145	Phosphorus	7723-14-0	78.2	0.308	1
12763	Silicon	7440-21-3	352	1.58	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	290	16.1	1
12003	Sulfur	7704-34-9	9.99 J	1.08	1
06969	Tin	7440-31-5	2.09 J	0.413	1
06970	Titanium	7440-32-6	659	0.163	1
06971	Vanadium	7440-62-2	126	0.0875	1
06972	Zinc	7440-66-6	37.3	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 15:55	Chelsea B Stong	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:01	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 04:38	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 00:47	Laura M Krieger	25.41

Sample Description: MW2-S-35.5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625151
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:15 by BS

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Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

2355-

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:02	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 01:03	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 20:55	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 20:59	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
12763	Silicon	SW-846 6010B	2	142825708002	10/10/2014 15:39	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:01	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW2-W-141002 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625152
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:45 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

2W---

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	0.9 J	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MW2-W-141002 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625152
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:45 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

2W---

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Chrysene

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

Sample Description: MW2-W-141002 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625152
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:45 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/04/2014 09:15 Suite 107
Reported: 10/21/2014 14:29 Rancho Cordova CA 95670

2W---

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons			ug/l	ug/l	
06609	TPH-DRO CA C10-C28	n.a.	N.D.	50	1
Metals			ug/l	ug/l	
01743	Aluminum	7429-90-5	124,000	67.4	1
07046	Barium	7440-39-3	642	0.33	1
08014	Boron	7440-42-8	373	4.6	1
07049	Cadmium	7440-43-9	N.D.	0.33	1
01750	Calcium	7440-70-2	90,400	33.4	1
07051	Chromium	7440-47-3	257	1.3	1
07053	Copper	7440-50-8	331	2.8	1
01754	Iron	7439-89-6	172,000	33.4	1
07055	Lead	7439-92-1	35.1	4.7	1
01757	Magnesium	7439-95-4	67,100	16.7	1
07058	Manganese	7439-96-5	4,420	0.83	1
07060	Molybdenum	7439-98-7	33.4	1.7	1
07061	Nickel	7440-02-0	268	1.6	1
10143	Phosphorus	7723-14-0	530	5.0	1
01765	Silicon	7440-21-3	88,600	19.5	1
07066	Silver	7440-22-4	N.D.	1.8	1
01767	Sodium	7440-23-5	97,100	334	2
12004	Sulfur	7704-34-9	12,000	19.2	1
07069	Tin	7440-31-5	4.9 J	2.4	1
07070	Titanium	7440-32-6	2,630	1.7	1
07071	Vanadium	7440-62-2	694	1.9	1
07072	Zinc	7440-66-6	207	2.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W142811AA	10/08/2014 13:03	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142811AA	10/08/2014 13:03	Sarah A Guill	1
07805	PAHs 8270C Water	SW-846 8270C	1	14280WAB026	10/08/2014 08:38	Brian K Graham	1
07807	BNA Water Extraction	SW-846 3510C	1	14280WAB026	10/07/2014 22:00	Karen L Beyer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14279A20A	10/07/2014 17:05	Miranda P Tillinghast	1

Sample Description: MW2-W-141002 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625152
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

2W---

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	14279A20A	10/07/2014 17:05	Miranda P Tillinghast	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	142800010A	10/08/2014 18:27	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	142800010A	10/07/2014 18:30	Samantha L Bronder	1
01743	Aluminum	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
08014	Boron	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07060	Molybdenum	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
10143	Phosphorus	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
01765	Silicon	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010B	1	142801848002	10/10/2014 01:29	Elaine F Stoltzfus	2
12004	Sulfur	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07069	Tin	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07070	Titanium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010B	1	142801848002	10/09/2014 01:53	Elaine F Stoltzfus	1

Sample Description: MW2-W-141002 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625152
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 16:45 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

2W---

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	142801848002	10/08/2014 10:38	Micaela L Dishong	1

Sample Description: MW3-S-10-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625153
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

3S10-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.98
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.98
10237	Benzene	71-43-2	N.D.	0.0005	0.98
10237	Bromobenzene	108-86-1	N.D.	0.001	0.98
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.98
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.98
10237	Bromoform	75-25-2	N.D.	0.001	0.98
10237	Bromomethane	74-83-9	N.D.	0.002	0.98
10237	2-Butanone	78-93-3	N.D.	0.004	0.98
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.98
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.98
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.98
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.98
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.98
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.98
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.98
10237	Chloroethane	75-00-3	N.D.	0.002	0.98
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.98
10237	Chloroform	67-66-3	N.D.	0.001	0.98
10237	Chloromethane	74-87-3	N.D.	0.002	0.98
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.98
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.98
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.98
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.98
10237	Dibromomethane	74-95-3	N.D.	0.001	0.98
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.98
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.98
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.98
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.98
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.98
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.98
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.98
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.98
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.98
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.98
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.98
10237	Ethanol	64-17-5	N.D.	0.098	0.98
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Freon 113	76-13-1	N.D.	0.002	0.98
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.98
10237	2-Hexanone	591-78-6	N.D.	0.003	0.98
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.98
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.98
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.98

Sample Description: MW3-S-10-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625153
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

3S10-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.98
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.98
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.98
10237	Styrene	100-42-5	N.D.	0.001	0.98
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.98
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.98
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.98
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.98
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.98
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.98
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.98
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.98
10237	o-Xylene	95-47-6	N.D.	0.001	0.98
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.9	22.79
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW3-S-10-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625153
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/04/2014 09:15 Suite 107
Reported: 10/21/2014 14:29 Rancho Cordova CA 95670

3S10-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	19,800	4.37	1
06946	Barium	7440-39-3	84.4	0.0317	1
07914	Boron	7440-42-8	6.94	0.808	1
06949	Cadmium	7440-43-9	0.0394 J	0.0317	1
01650	Calcium	7440-70-2	4,300	3.64	1
06951	Chromium	7440-47-3	44.5	0.106	1
06953	Copper	7440-50-8	41.9	0.317	1
01654	Iron	7439-89-6	27,100	6.42	2
06955	Lead	7439-92-1	7.61	0.481	1
01657	Magnesium	7439-95-4	4,960	1.61	1
06958	Manganese	7439-96-5	989	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	39.2	0.144	1
10145	Phosphorus	7723-14-0	73.2	0.308	1
12763	Silicon	7440-21-3	251	1.55	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	182	16.1	1
12003	Sulfur	7704-34-9	24.2 J	1.08	1
06969	Tin	7440-31-5	2.45 J	0.413	1
06970	Titanium	7440-32-6	560	0.163	1
06971	Vanadium	7440-62-2	108	0.0875	1
06972	Zinc	7440-66-6	29.3	0.250	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 16:17	Chelsea B Stong	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:56	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 05:03	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1

Sample Description: MW3-S-10-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625153
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

3S10-

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 03:48	Laura M Krieger	22.79
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:57	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 01:25	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 21:19	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 21:03	Elaine F Stoltzfus	2
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 21:19	Elaine F Stoltzfus	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:27	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:05	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14285659801A	10/16/2014 10:30	Yolunder Y Bunch	1

Sample Description: MW3-S-15-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625154
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:15 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

3S15-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW3-S-15-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625154
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

3S15-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	0.004 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	26.04
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW3-S-15-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625154
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 09:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

3S15-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	30,800	4.41	1
06946	Barium	7440-39-3	95.5	0.0320	1
07914	Boron	7440-42-8	8.08	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.0320	1
01650	Calcium	7440-70-2	5,840	3.68	1
06951	Chromium	7440-47-3	43.9	0.107	1
06953	Copper	7440-50-8	85.9	0.320	1
01654	Iron	7439-89-6	44,400	16.2	5
06955	Lead	7439-92-1	9.60	0.485	1
01657	Magnesium	7439-95-4	7,250	1.62	1
06958	Manganese	7439-96-5	732	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	38.3	0.146	1
10145	Phosphorus	7723-14-0	53.3	0.311	1
12763	Silicon	7440-21-3	205	1.55	1
06966	Silver	7440-22-4	4.13	0.184	1
01667	Sodium	7440-23-5	277	16.2	1
12003	Sulfur	7704-34-9	11.7 J	1.09	1
06969	Tin	7440-31-5	1.92 J	0.417	1
06970	Titanium	7440-32-6	785	0.165	1
06971	Vanadium	7440-62-2	220	0.0883	1
06972	Zinc	7440-66-6	36.0	0.252	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 16:40	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:51	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 00:23	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1

Sample Description: MW3-S-15-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625154
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Project Name: 373378 Tidewater Oakland

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 04:24	Laura M Krieger	26.04
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:52	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 01:47	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 21:23	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 21:27	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
12763	Silicon	SW-846 6010B	2	142825708002	10/10/2014 15:12	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 21:23	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:16	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14288659801A	10/20/2014 13:00	Yolunder Y Bunch	1

Sample Description: MW3-S-20-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625155
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 10:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

3S20-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.04
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.04
10237	Benzene	71-43-2	N.D.	0.0005	1.04
10237	Bromobenzene	108-86-1	N.D.	0.001	1.04
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.04
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.04
10237	Bromoform	75-25-2	N.D.	0.001	1.04
10237	Bromomethane	74-83-9	N.D.	0.002	1.04
10237	2-Butanone	78-93-3	N.D.	0.004	1.04
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.04
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.04
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.04
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.04
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.04
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.04
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.04
10237	Chloroethane	75-00-3	N.D.	0.002	1.04
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.04
10237	Chloroform	67-66-3	N.D.	0.001	1.04
10237	Chloromethane	74-87-3	N.D.	0.002	1.04
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.04
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.04
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.04
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.04
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.04
10237	Dibromomethane	74-95-3	N.D.	0.001	1.04
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.04
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.04
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.04
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.04
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.04
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.04
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.04
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.04
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.04
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.04
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.04
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.04
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.04
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.04
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.04
10237	Ethanol	64-17-5	N.D.	0.10	1.04
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.04
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.04
10237	Freon 113	76-13-1	N.D.	0.002	1.04
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.04
10237	2-Hexanone	591-78-6	N.D.	0.003	1.04
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.04
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.04
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.04

Sample Description: MW3-S-20-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625155
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 10:00 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

3S20-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.04
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.04
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.04
10237	Naphthalene	91-20-3	N.D.	0.001	1.04
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.04
10237	Styrene	100-42-5	N.D.	0.001	1.04
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.04
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.04
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.04
10237	Toluene	108-88-3	N.D.	0.001	1.04
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.04
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.04
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.04
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.04
10237	Trichloroethene	79-01-6	N.D.	0.001	1.04
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.04
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.04
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.04
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.04
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.04
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.04
10237	o-Xylene	95-47-6	N.D.	0.001	1.04
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25.51
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW3-S-20-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625155
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 10:00 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

3S20-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	34,200	4.54	1
06946	Barium	7440-39-3	76.0	0.0330	1
07914	Boron	7440-42-8	9.23	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.0330	1
01650	Calcium	7440-70-2	8,520	3.79	1
06951	Chromium	7440-47-3	39.5	0.110	1
06953	Copper	7440-50-8	110	0.330	1
01654	Iron	7439-89-6	45,300	16.7	5
06955	Lead	7439-92-1	9.51	0.500	1
01657	Magnesium	7439-95-4	10,600	1.67	1
06958	Manganese	7439-96-5	714	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	31.5	0.150	1
10145	Phosphorus	7723-14-0	72.7	0.320	1
12763	Silicon	7440-21-3	226	1.57	1
06966	Silver	7440-22-4	4.56	0.190	1
01667	Sodium	7440-23-5	359	16.7	1
12003	Sulfur	7704-34-9	9.64 J	1.12	1
06969	Tin	7440-31-5	1.97 J	0.430	1
06970	Titanium	7440-32-6	756	0.170	1
06971	Vanadium	7440-62-2	209	0.0910	1
06972	Zinc	7440-66-6	43.6	0.260	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 17:02	Chelsea B Stong	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:47	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 00:48	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1

Sample Description: MW3-S-20-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625155
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 10:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

3S20-

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 05:00	Laura M Krieger	25.51
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:48	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 02:09	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 21:30	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 21:34	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:30	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 21:30	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:19	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14288659801A	10/20/2014 13:00	Yolunder Y Bunch	1

Sample Description: MW3-S-28-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625156
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 11:20 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

S328-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW3-S-28-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625156
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 11:20 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

S328-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25.83
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	13	4.0	1

Sample Description: MW3-S-28-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625156
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 11:20 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

S328-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	35,900	4.45	1
06946	Barium	7440-39-3	72.8	0.0324	1
07914	Boron	7440-42-8	9.67	0.824	1
06949	Cadmium	7440-43-9	0.240 J	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	9,970	3.72	1
06951	Chromium	7440-47-3	44.5	0.108	1
06953	Copper	7440-50-8	114	0.324	1
01654	Iron	7439-89-6	44,200	16.4	5
06955	Lead	7439-92-1	8.72	0.490	1
01657	Magnesium	7439-95-4	12,100	1.64	1
06958	Manganese	7439-96-5	678	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	39.9	0.147	1
10145	Phosphorus	7723-14-0	67.1	0.314	1
12763	Silicon	7440-21-3	223	1.60	1
06966	Silver	7440-22-4	4.66	0.186	1
01667	Sodium	7440-23-5	459	16.4	1
12003	Sulfur	7704-34-9	9.29 J	1.10	1
06969	Tin	7440-31-5	1.90 J	0.422	1
06970	Titanium	7440-32-6	531	0.167	1
06971	Vanadium	7440-62-2	174	0.0892	1
06972	Zinc	7440-66-6	47.1	0.255	1
Wet Chemistry			mg/kg	mg/kg	
SW-846 9071B mod					
06598	HEM-SGT-Solids	n.a.	731	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 17:24	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:40	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 01:13	William H Saadeh	1

Sample Description: MW3-S-28-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625156
LL Group # 1508596
Account # 13534

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 05:36	Laura M Krieger	25.83
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:42	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 02:31	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 23:21	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 23:21	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:34	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 23:17	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:23	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klump	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14288659801A	10/20/2014 13:00	Yolunder Y Bunch	1

Sample Description: MW3-S-30-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625157
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 11:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/04/2014 09:15

Suite 107

Reported: 10/21/2014 14:29

Rancho Cordova CA 95670

3S30-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW3-S-30-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

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Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

3S30-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25.28
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW3-S-30-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

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Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	21,300	4.37	1
06946	Barium	7440-39-3	93.0	0.0317	1
07914	Boron	7440-42-8	8.53	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0635	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,370	3.64	1
06951	Chromium	7440-47-3	46.3	0.106	1
06953	Copper	7440-50-8	59.0	0.317	1
01654	Iron	7439-89-6	42,400	6.42	2
06955	Lead	7439-92-1	11.2	0.481	1
01657	Magnesium	7439-95-4	7,730	1.61	1
06958	Manganese	7439-96-5	890	0.0798	1
06960	Molybdenum	7439-98-7	0.693 J	0.163	1
06961	Nickel	7440-02-0	69.4	0.144	1
10145	Phosphorus	7723-14-0	157	0.308	1
12763	Silicon	7440-21-3	344	1.58	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	325	16.1	1
12003	Sulfur	7704-34-9	17.4 J	1.08	1
06969	Tin	7440-31-5	15.9	0.413	1
06970	Titanium	7440-32-6	445	0.163	1
06971	Vanadium	7440-62-2	144	0.0875	1
06972	Zinc	7440-66-6	59.9	0.250	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

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Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:34	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 01:39	William H Saadeh	1

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10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 06:13	Laura M Krieger	25.28
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:35	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 02:53	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 23:29	Elaine F Stoltzfus	2
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 23:29	Elaine F Stoltzfus	2
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 23:25	Elaine F Stoltzfus	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:38	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:27	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klump	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14288659801A	10/20/2014 13:00	Yolunder Y Bunch	1

Sample Description: MW3-S-35-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625158
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 12:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

3S35-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: MW3-S-35-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625158
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 12:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

3S35-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1.0	25.28
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW3-S-35-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625158
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 12:45 by BS

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/21/2014 14:29

Suite 107

Rancho Cordova CA 95670

3S35-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	17,300	4.50	1
06946	Barium	7440-39-3	82.9	0.0327	1
07914	Boron	7440-42-8	7.96	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.0327	1
01650	Calcium	7440-70-2	4,550	3.75	1
06951	Chromium	7440-47-3	39.0	0.109	1
06953	Copper	7440-50-8	66.1	0.327	1
01654	Iron	7439-89-6	38,100	16.5	5
06955	Lead	7439-92-1	10.1	0.495	1
01657	Magnesium	7439-95-4	6,270	1.65	1
06958	Manganese	7439-96-5	723	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	44.3	0.149	1
10145	Phosphorus	7723-14-0	121	0.317	1
12763	Silicon	7440-21-3	262	1.57	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	246	16.5	1
12003	Sulfur	7704-34-9	5.47 J	1.11	1
06969	Tin	7440-31-5	1.68 J	0.426	1
06970	Titanium	7440-32-6	635	0.168	1
06971	Vanadium	7440-62-2	206	0.0901	1
06972	Zinc	7440-66-6	40.8	0.257	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 18:09	Chelsea B Stong	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:27	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 02:05	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1

Sample Description: MW3-S-35-141003 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625158
LL Group # 1508596
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/03/2014 12:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/04/2014 09:15

Reported: 10/21/2014 14:29

3S35-

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 06:49	Laura M Krieger	25.28
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:28	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 03:15	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 23:36	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 23:40	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:42	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:30	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14288659801A	10/20/2014 13:00	Yolunder Y Bunch	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B142792AA	Sample number(s): 7625150-7625151,7625153-7625158							
Acetone	N.D.	0.007	mg/kg	110	98	53-141	11	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	93	90	63-130	3	30
Benzene	N.D.	0.0005	mg/kg	100	96	80-120	4	30
Bromobenzene	N.D.	0.001	mg/kg	96	95	78-120	1	30
Bromochloromethane	N.D.	0.001	mg/kg	104	100	80-128	3	30
Bromodichloromethane	N.D.	0.001	mg/kg	98	93	75-120	5	30
Bromoform	N.D.	0.001	mg/kg	93	91	70-126	2	30
Bromomethane	N.D.	0.002	mg/kg	93	88	32-162	6	30
2-Butanone	N.D.	0.004	mg/kg	104	94	62-123	11	30
t-Butyl alcohol	N.D.	0.020	mg/kg	96	95	72-125	1	30
n-Butylbenzene	N.D.	0.001	mg/kg	103	100	72-120	3	30
sec-Butylbenzene	N.D.	0.001	mg/kg	106	102	69-120	4	30
tert-Butylbenzene	N.D.	0.001	mg/kg	99	97	75-120	1	30
Carbon Disulfide	N.D.	0.001	mg/kg	84	78	63-128	6	30
Carbon Tetrachloride	N.D.	0.001	mg/kg	103	95	69-130	7	30
Chlorobenzene	N.D.	0.001	mg/kg	100	101	80-120	1	30
Chloroethane	N.D.	0.002	mg/kg	86	82	17-171	6	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/kg	74	70	64-124	6	30
Chloroform	N.D.	0.001	mg/kg	107	101	80-125	6	30
Chloromethane	N.D.	0.002	mg/kg	89	85	56-120	6	30
2-Chlorotoluene	N.D.	0.001	mg/kg	101	96	78-120	5	30
4-Chlorotoluene	N.D.	0.001	mg/kg	100	98	79-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/kg	103	99	59-122	4	30
Dibromochloromethane	N.D.	0.001	mg/kg	99	99	77-120	0	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	101	102	80-120	0	30
Dibromomethane	N.D.	0.001	mg/kg	98	92	80-120	7	30
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	101	100	80-120	1	30
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	98	95	80-120	4	30
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	99	96	80-120	3	30
Dichlorodifluoromethane	N.D.	0.002	mg/kg	96	89	26-137	7	30
1,1-Dichloroethane	N.D.	0.001	mg/kg	100	94	80-122	6	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	109	102	77-130	7	30
1,1-Dichloroethene	N.D.	0.001	mg/kg	100	90	73-129	10	30
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	101	97	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	103	98	80-129	5	30
1,2-Dichloropropane	N.D.	0.001	mg/kg	96	93	80-120	4	30
1,3-Dichloropropane	N.D.	0.001	mg/kg	100	101	80-120	1	30
2,2-Dichloropropane	N.D.	0.001	mg/kg	98	91	72-123	7	30
1,1-Dichloropropene	N.D.	0.001	mg/kg	104	98	80-126	5	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	95	94	74-120	1	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	99	100	76-120	2	30
Ethanol	N.D.	0.10	mg/kg	77	81	46-146	5	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	94	90	70-122	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethylbenzene	N.D.	0.001	mg/kg	101	100	80-120	0	30
Freon 113	N.D.	0.002	mg/kg	89	82	64-137	8	30
Hexachlorobutadiene	N.D.	0.002	mg/kg	104	98	46-130	7	30
2-Hexanone	N.D.	0.003	mg/kg	104	101	51-120	3	30
di-Isopropyl ether	N.D.	0.001	mg/kg	94	90	77-123	5	30
Isopropylbenzene	N.D.	0.001	mg/kg	104	102	76-120	2	30
p-Isopropyltoluene	N.D.	0.001	mg/kg	103	99	69-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	100	94	76-122	6	30
4-Methyl-2-pentanone	N.D.	0.003	mg/kg	95	87	57-123	9	30
Methylene Chloride	N.D.	0.002	mg/kg	109	104	80-124	5	30
Naphthalene	N.D.	0.001	mg/kg	97	94	64-120	3	30
n-Propylbenzene	N.D.	0.001	mg/kg	105	102	77-120	2	30
Styrene	N.D.	0.001	mg/kg	104	104	76-120	0	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/kg	101	100	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	97	94	71-123	3	30
Tetrachloroethene	N.D.	0.001	mg/kg	98	96	78-120	3	30
Toluene	N.D.	0.001	mg/kg	103	100	80-120	3	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/kg	96	94	64-120	2	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/kg	93	93	68-120	0	30
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	105	98	63-135	7	30
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	101	103	80-120	1	30
Trichloroethene	N.D.	0.001	mg/kg	104	98	80-125	5	30
Trichlorofluoromethane	N.D.	0.002	mg/kg	104	95	58-133	10	30
1,2,3-Trichloropropane	N.D.	0.001	mg/kg	106	99	71-123	7	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/kg	107	103	79-120	4	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/kg	108	104	78-120	3	30
Vinyl Chloride	N.D.	0.001	mg/kg	96	91	59-120	6	30
m+p-Xylene	N.D.	0.001	mg/kg	103	100	80-120	3	30
o-Xylene	N.D.	0.001	mg/kg	100	99	80-120	0	30

Batch number: W142811AA

Sample number(s): 7625152

Acetone	N.D.	6.	ug/l	56		55-129		
t-Amyl methyl ether	N.D.	0.5	ug/l	90		75-120		
Benzene	N.D.	0.5	ug/l	93		78-120		
Bromobenzene	N.D.	1.	ug/l	95		80-120		
Bromochloromethane	N.D.	1.	ug/l	96		80-121		
Bromodichloromethane	N.D.	0.5	ug/l	94		73-120		
Bromoform	N.D.	0.5	ug/l	86		61-120		
Bromomethane	N.D.	0.5	ug/l	87		53-130		
2-Butanone	N.D.	3.	ug/l	94		54-133		
t-Butyl alcohol	N.D.	5.	ug/l	95		75-120		
n-Butylbenzene	N.D.	1.	ug/l	74		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	77		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	87		80-120		
Carbon Disulfide	N.D.	1.	ug/l	67		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	103		74-130		
Chlorobenzene	N.D.	0.5	ug/l	96		80-120		
Chloroethane	N.D.	0.5	ug/l	79		56-120		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	94		62-128		
Chloroform	N.D.	0.5	ug/l	103		80-122		
Chloromethane	N.D.	0.5	ug/l	87		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	90		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	89		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	89		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	95		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	97		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibromomethane	N.D.	0.5	ug/l	95		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	91		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	89		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	91		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	100		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	96		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	115		65-135		
1,1-Dichloroethene	N.D.	0.5	ug/l	90		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	94		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	92		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	95		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	98		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	93		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	100		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	91		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	92		76-120		
Ethanol	N.D.	50.	ug/l	81		58-139		
Ethyl t-butyl ether	N.D.	0.5	ug/l	93		69-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Freon 113	N.D.	2.	ug/l	77		67-127		
Hexachlorobutadiene	N.D.	2.	ug/l	72		51-125		
2-Hexanone	N.D.	3.	ug/l	96		57-127		
di-Isopropyl ether	N.D.	0.5	ug/l	98		61-132		
Isopropylbenzene	N.D.	1.	ug/l	88		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	77		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	95		51-124		
Methylene Chloride	N.D.	2.	ug/l	93		80-120		
Naphthalene	N.D.	1.	ug/l	82		47-126		
n-Propylbenzene	N.D.	1.	ug/l	85		80-120		
Styrene	N.D.	1.	ug/l	87		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	95		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	90		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	89		80-120		
Toluene	N.D.	0.5	ug/l	92		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	83		68-123		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	84		73-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	96		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	95		80-120		
Trichloroethene	N.D.	0.5	ug/l	98		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	105		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	97		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	86		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	84		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	86		63-120		
m+p-Xylene	N.D.	0.5	ug/l	89		80-120		
o-Xylene	N.D.	0.5	ug/l	90		80-120		

Batch number: 14280WAB026

Sample number(s): 7625152

Acenaphthene	N.D.	0.1	ug/l	102	104	80-112	3	30
Acenaphthylene	N.D.	0.1	ug/l	110	116	84-125	5	30
Anthracene	N.D.	0.1	ug/l	105	108	82-116	3	30
Benzo(a)anthracene	N.D.	0.1	ug/l	112	120	81-126	7	30
Benzo(a)pyrene	N.D.	0.1	ug/l	107	109	82-116	2	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	110	115	82-121	4	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	101	104	76-128	3	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(k)fluoranthene	N.D.	0.1	ug/l	113	116	81-122	3	30
Chrysene	N.D.	0.1	ug/l	115	123*	81-120	6	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	105	107	80-130	2	30
Fluoranthene	N.D.	0.1	ug/l	106	110	82-121	4	30
Fluorene	N.D.	0.1	ug/l	101	105	80-117	3	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	98	100	80-126	3	30
Naphthalene	N.D.	0.1	ug/l	98	102	75-108	4	30
Phenanthrene	N.D.	0.1	ug/l	103	106	81-114	3	30
Pyrene	N.D.	0.1	ug/l	103	109	81-112	5	30
Batch number: 14281SLB026 Sample number(s): 7625150-7625151,7625153-7625158								
Acenaphthene	N.D.	0.003	mg/kg	101		83-111		
Acenaphthylene	N.D.	0.003	mg/kg	113		83-127		
Anthracene	N.D.	0.003	mg/kg	104		82-118		
Benzo(a)anthracene	N.D.	0.003	mg/kg	100		76-119		
Benzo(a)pyrene	N.D.	0.003	mg/kg	103		84-122		
Benzo(b)fluoranthene	N.D.	0.003	mg/kg	99		78-129		
Benzo(g,h,i)perylene	N.D.	0.003	mg/kg	103		77-121		
Benzo(k)fluoranthene	N.D.	0.003	mg/kg	108		79-120		
Chrysene	N.D.	0.003	mg/kg	104		77-116		
Dibenz(a,h)anthracene	N.D.	0.003	mg/kg	99		81-123		
Fluoranthene	N.D.	0.003	mg/kg	101		75-118		
Fluorene	N.D.	0.003	mg/kg	104		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	mg/kg	94		76-122		
Naphthalene	N.D.	0.003	mg/kg	95		77-115		
Phenanthrene	N.D.	0.003	mg/kg	101		80-114		
Pyrene	N.D.	0.003	mg/kg	102		81-114		
Batch number: 14279A20A Sample number(s): 7625152								
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	110	111	80-139	0	30
Batch number: 14279A31A Sample number(s): 7625150-7625151,7625153-7625158								
TPH-GRO N. CA soil C6-C12	N.D.	1.0	mg/kg	73		73-120		
Batch number: 142810025A Sample number(s): 7625150-7625151,7625153-7625158								
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	97		81-121		
Batch number: 142800010A Sample number(s): 7625152								
TPH-DRO CA C10-C28	N.D.	50.	ug/l	89	87	56-114	3	20
Batch number: 142795708003 Sample number(s): 7625150-7625151,7625153-7625158								
Aluminum	6.74	J	4.54	mg/kg	107	80-120		
Barium	N.D.		0.0330	mg/kg	101	80-120		
Boron	N.D.		0.840	mg/kg	101	80-120		
Cadmium	N.D.		0.0330	mg/kg	102	80-120		
Calcium	15.3	J	3.79	mg/kg	105	80-120		
Chromium	N.D.		0.110	mg/kg	99	80-120		
Copper	N.D.		0.330	mg/kg	102	80-120		
Iron	N.D.		3.34	mg/kg	103	80-120		
Lead	N.D.		0.500	mg/kg	103	80-120		
Magnesium	N.D.		1.67	mg/kg	101	80-120		
Manganese	N.D.		0.0830	mg/kg	103	80-120		
Molybdenum	N.D.		0.170	mg/kg	103	80-120		
Nickel	N.D.		0.150	mg/kg	104	80-120		
Phosphorus	1.44	J	0.320	mg/kg	104	80-120		
Silver	N.D.		0.190	mg/kg	99	80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Sodium	N.D.	16.7	mg/kg	102		80-120		
Sulfur	N.D.	1.12	mg/kg	102		80-120		
Tin	1.38 J	0.430	mg/kg	102		80-120		
Titanium	N.D.	0.170	mg/kg	102		80-120		
Vanadium	N.D.	0.0910	mg/kg	104		80-120		
Zinc	1.23 J	0.260	mg/kg	104		80-120		

Batch number: 142801848002	Sample number(s): 7625152					
Aluminum	N.D.	67.4	ug/l	104		90-112
Barium	N.D.	0.33	ug/l	101		90-110
Boron	N.D.	4.6	ug/l	100		90-110
Cadmium	N.D.	0.33	ug/l	102		90-112
Calcium	154 J	33.4	ug/l	104		90-112
Chromium	N.D.	1.3	ug/l	102		90-110
Copper	N.D.	2.8	ug/l	101		90-112
Iron	N.D.	33.4	ug/l	107		90-112
Lead	N.D.	4.7	ug/l	104		88-116
Magnesium	50.5 J	16.7	ug/l	105		89-110
Manganese	1.9 J	0.83	ug/l	102		90-110
Molybdenum	N.D.	1.7	ug/l	106		90-110
Nickel	N.D.	1.6	ug/l	104		90-117
Phosphorus	N.D.	5.0	ug/l	102		90-110
Silicon	N.D.	19.5	ug/l	108		80-120
Silver	N.D.	1.8	ug/l	113		80-120
Sodium	512 J	167.	ug/l	106		87-114
Sulfur	38.8 J	19.2	ug/l	101		90-112
Tin	N.D.	2.4	ug/l	104		90-110
Titanium	N.D.	1.7	ug/l	105		90-113
Vanadium	N.D.	1.9	ug/l	106		90-110
Zinc	4.9 J	2.0	ug/l	101		90-110

Batch number: 142825708002	Sample number(s): 7625150-7625151, 7625153-7625158					
Silicon	N.D.	1.63	mg/kg	97		80-120

Batch number: 14285659801A	Sample number(s): 7625153					
HEM-SGT-Solids	N.D.	200.	mg/kg	104		72-111

Batch number: 14288659801A	Sample number(s): 7625154-7625158					
HEM-SGT-Solids	N.D.	200.	mg/kg	90		72-111

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: W142811AA	Sample number(s): 7625152 UNSPK: P628094								
Acetone	71	72	35-144	1	30				
t-Amyl methyl ether	93	93	65-117	1	30				
Benzene	103	104	72-134	0	30				
Bromobenzene	100	100	82-115	0	30				
Bromochloromethane	104	101	76-134	3	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Bromodichloromethane	102	104	73-125	1	30			
Bromoform	88	90	48-118	3	30			
Bromomethane	98	98	47-129	0	30			
2-Butanone	94	93	44-135	2	30			
t-Butyl alcohol	101	99	67-119	2	30			
n-Butylbenzene	83	84	74-134	1	30			
sec-Butylbenzene	87	88	74-137	0	30			
tert-Butylbenzene	94	92	81-121	2	30			
Carbon Disulfide	79	78	53-149	1	30			
Carbon Tetrachloride	124	123	75-148	1	30			
Chlorobenzene	104	103	87-124	1	30			
Chloroethane	93	92	55-130	2	30			
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30			
Chloroform	115	114	81-134	1	30			
Chloromethane	98	98	61-125	0	30			
2-Chlorotoluene	100	99	82-118	1	30			
4-Chlorotoluene	97	98	84-122	1	30			
1,2-Dibromo-3-chloropropane	88	87	50-123	1	30			
Dibromochloromethane	99	100	74-116	0	30			
1,2-Dibromoethane	102	100	77-116	2	30			
Dibromomethane	101	102	83-119	1	30			
1,2-Dichlorobenzene	96	97	84-119	1	30			
1,3-Dichlorobenzene	94	95	86-121	0	30			
1,4-Dichlorobenzene	97	98	85-121	2	30			
Dichlorodifluoromethane	137	135	58-156	1	30			
1,1-Dichloroethane	107	107	84-129	0	30			
1,2-Dichloroethane	123	122	63-142	1	30			
1,1-Dichloroethene	106	102	79-137	3	30			
cis-1,2-Dichloroethene	43 (2)	74 (2)	80-141	2	30			
trans-1,2-Dichloroethene	100	100	86-131	0	30			
1,2-Dichloropropane	103	103	83-124	1	30			
1,3-Dichloropropane	103	101	81-120	2	30			
2,2-Dichloropropane	106	106	69-135	0	30			
1,1-Dichloropropene	119	117	86-137	1	30			
cis-1,3-Dichloropropene	95	95	70-116	1	30			
trans-1,3-Dichloropropene	97	98	74-119	1	30			
Ethanol	72	64	53-146	11	30			
Ethyl t-butyl ether	93	95	74-122	2	30			
Ethylbenzene	102	101	71-134	0	30			
Freon 113	102	100	89-148	2	30			
Hexachlorobutadiene	85	92	56-134	7	30			
2-Hexanone	100	99	38-131	1	30			
di-Isopropyl ether	103	104	70-129	1	30			
Isopropylbenzene	99	99	75-128	0	30			
p-Isopropyltoluene	85	86	76-123	1	30			
Methyl Tertiary Butyl Ether	97	96	72-126	1	30			
4-Methyl-2-pentanone	99	99	45-128	0	30			
Methylene Chloride	99	98	78-133	1	30			
Naphthalene	84	85	52-125	2	30			
n-Propylbenzene	94	96	74-134	1	30			
Styrene	95	94	78-125	1	30			
1,1,1,2-Tetrachloroethane	107	104	80-123	3	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2,2-Tetrachloroethane	89	89	72-128	0	30				
Tetrachloroethene	104	103	80-128	1	30				
Toluene	103	101	80-125	2	30				
1,2,3-Trichlorobenzene	86	87	62-133	2	30				
1,2,4-Trichlorobenzene	87	88	56-137	1	30				
1,1,1-Trichloroethane	112	113	69-140	1	30				
1,1,2-Trichloroethane	97	98	71-141	1	30				
Trichloroethene	109	104	88-133	2	30				
Trichlorofluoromethane	137	133	63-163	3	30				
1,2,3-Trichloropropane	101	101	76-118	0	30				
1,2,4-Trimethylbenzene	92	94	72-130	2	30				
1,3,5-Trimethylbenzene	92	93	65-132	1	30				
Vinyl Chloride	102	102	66-133	0	30				
m+p-Xylene	101	100	79-125	1	30				
o-Xylene	99	98	79-125	0	30				
Batch number: 14281SLB026 Sample number(s): 7625150-7625151,7625153-7625158 UNSPK: 7625150									
Acenaphthene	98	96	55-132	1	30				
Acenaphthylene	106	108	53-143	1	30				
Anthracene	100	100	42-147	1	30				
Benzo(a)anthracene	97	96	32-150	0	30				
Benzo(a)pyrene	97	99	36-151	2	30				
Benzo(b)fluoranthene	95	98	29-150	3	30				
Benzo(g,h,i)perylene	97	98	41-147	1	30				
Benzo(k)fluoranthene	103	104	35-146	1	30				
Chrysene	100	103	28-146	3	30				
Dibenz(a,h)anthracene	94	95	54-142	1	30				
Fluoranthene	98	97	41-135	1	30				
Fluorene	99	97	55-128	2	30				
Indeno(1,2,3-cd)pyrene	89	93	44-147	4	30				
Naphthalene	94	94	44-142	1	30				
Phenanthrene	98	98	42-141	0	30				
Pyrene	98	101	37-140	2	30				
Batch number: 14279A31A Sample number(s): 7625150-7625151,7625153-7625158 UNSPK: P625175									
TPH-GRO N. CA soil C6-C12	84	83	39-118	13	30				
Batch number: 142810025A Sample number(s): 7625150-7625151,7625153-7625158 UNSPK: 7625150									
TPH-DRO soil C10-C28 microwave	104	99	35-129	5	20				
Batch number: 142795708003 Sample number(s): 7625150-7625151,7625153-7625158 UNSPK: 7625150 BKG: 7625150									
Aluminum	2552 (2)	5071 (2)	75-125	15	20	26,700	25,500	5	20
Barium	103	118	75-125	10	20	95.2	84.4	12	20
Boron	98	104	84-110	5	20	7.29	7.35	1 (1)	20
Cadmium	89	90	75-120	1	20	N.D.	N.D.	0 (1)	20
Calcium	320 (2)	1515 (2)	75-125	45*	20	6,800	6,420	6	20
Chromium	115	133*	75-125	5	20	47.6	44.9	6	20
Copper	99	123	75-125	6	20	76.9	71.0	8	20
Iron	4376 (2)	2313 (2)	75-125	5	20	38,700	35,100	10	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Lead	102	104	75-125	1	20	9.14	8.84	3
Magnesium	37 (2)	280 (2)	75-125	5	20	9,090	8,640	5
Manganese	-5 (2)	443 (2)	75-125	26*	20	754	686	9
Molybdenum	95	98	82-110	2	20	N.D.	N.D.	0 (1)
Nickel	101	109	75-125	4	20	47.9	47.6	1
Phosphorus	111	115	75-125	2	20	90.4	99.7	10
Silver	104	121	75-125	10	20	2.91	3.09	6
Sodium	101	107	75-125	4	20	412	385	7 (1)
Sulfur	101	106	80-120	5	20	11.0	9.35	16 (1)
Tin	94	95	75-110	1	20	1.92	1.72	11 (1)
Titanium	283*	407*	75-125	17	20	385	451	16
Vanadium	140*	176*	75-125	7	20	161	161	1
Zinc	94	103	75-125	5	20	49.8	44.7	11

Batch number: 142801848002

Sample number(s): 7625152 UNSPK: P624054 BKG: P624054

Aluminum	104	106	75-125	2	20	N.D.	N.D.	0 (1)
Barium	105	107	78-125	2	20	83.9	82.1	2
Boron	98	101	82-117	3	20	181	173	4 (1)
Cadmium	98	99	75-122	1	20	0.45	0.43	5 (1)
Calcium	125 (2)	198 (2)	75-125	1	20	288,000	284,000	2
Chromium	96	97	76-120	2	20	2.0	2.3	18 (1)
Copper	102	104	86-122	1	20	N.D.	N.D.	0 (1)
Iron	102	107	75-125	5	20	N.D.	N.D.	0 (1)
Lead	101	104	75-125	3	20	N.D.	N.D.	0 (1)
Magnesium	124 (2)	200 (2)	75-125	1	20	119,000	117,000	2
Manganese	97	101	75-125	4	20	10.5	9.8	7 (1)
Molybdenum	106	107	89-117	1	20	5.3	N.D.	200* (1)
Nickel	99	100	79-123	1	20	2.2	2.2	0 (1)
Phosphorus	-1854	-1852	90-120	2	20	19,700	19,500	1
	(2)	(2)						
Silicon	109 (2)	114 (2)	83-123	0	20	15,200	14,900	2
Silver	113	114	75-125	1	20	N.D.	N.D.	0 (1)
Sodium	75 (2)	89 (2)	76-125	0	20	381,000	371,000	2
Sulfur	131 (2)	197 (2)	84-125	1	20	52,300	51,200	2
Tin	104	104	81-116	1	20	N.D.	N.D.	0 (1)
Titanium	102	103	90-115	1	20	3.6	3.5	3 (1)
Vanadium	103	106	90-123	2	20	4.3	4.1	5 (1)
Zinc	99	101	80-125	2	20	N.D.	N.D.	0 (1)

Batch number: 142825708002

Sample number(s): 7625150-7625151,7625153-7625158 UNSPK: 7625154 BKG: 7625154

Silicon	100	108	75-125	2	20	205	285	33*
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Batch number: 14285659801A

Sample number(s): 7625153 UNSPK: P631547 BKG: P631547

HEM-SGT-Solids	92	80	22-125	13	20	333	331	J 1 (1)
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Batch number: 14288659801A

Sample number(s): 7625154-7625158 UNSPK: P626859 BKG: P626859

HEM-SGT-Solids	112	109	22-125	3	20	N.D.	239	J 200* (1)
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*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Full List + Sep Xylenes
Batch number: B142792AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7625150	108	113	104	101
7625151	106	107	105	99
7625153	107	110	103	101
7625154	109	112	107	103
7625155	106	109	106	102
7625156	107	111	104	103
7625157	106	104	106	102
7625158	105	104	106	103
Blank	108	108	105	103
LCS	109	108	108	109
LCSD	106	102	112	114
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Full List w/ Sep. Xylenes
Batch number: W142811AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7625152	102	98	98	95
Blank	103	99	97	94
LCS	103	101	99	97
MS	106	101	99	98
MSD	104	102	100	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs 8270C Water
Batch number: 14280WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7625152	98	98	82
Blank	102	103	104
LCS	96	95	93
LCSD	100	99	86
Limits:	60-123	67-116	40-147

Analysis Name: PAH's 8270C Soil
Batch number: 14281SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7625150	85	93	104
7625151	87	94	108
7625153	84	92	106
7625154	86	92	109
7625155	87	96	106
7625156	74	86	103
7625157	86	92	106
7625158	86	92	108
Blank	90	95	112
LCS	93	99	109
MS	89	94	104
MSD	91	95	104
Limits:	54-123	63-124	61-142

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/21/14 at 02:29 PM

Group Number: 1508596

Surrogate Quality Control

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14279A20A
Trifluorotoluene-F

7625152	87
Blank	90
LCS	91
LCSD	89
Limits:	63-135

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14279A31A
Trifluorotoluene-F

7625150	71
7625151	70
7625153	75
7625154	71
7625155	73
7625156	74
7625157	74
7625158	69
Blank	100
LCS	79
MS	68
MSD	68
Limits:	50-142

Analysis Name: TPH-DRO CA C10-C28
Batch number: 142800010A
Orthoterphenyl

7625152	88
Blank	87
LCS	103
LCSD	102
Limits:	58-137

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142810025A
Orthoterphenyl

7625150	94
7625151	97
7625153	95
7625154	93
7625155	94
7625156	94
7625157	95
7625158	100
Blank	101
LCS	99
MS	100
MSD	99
Limits:	54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only gr # 253221
 Acct. #: 13534 Sample #: 7625150-59 SER#: 1508596

100314-02

Facility #: Chevron # 373378 Phillips 66# 5627
 Site Address: 7600 MacArthur Blvd, Oakland CA
 Chevron PM: Jillian Holloway Lead Consultant: CRA
 Consultant/Office: 10969 Trade Center Dr #107 Rancho Cordova CA
 Consultant Prj. Mgr.: David Herzog
 Consultant Phone #: 916-889-8902 Fax #: 916-889-8999
 Sampler: B. Summersett
 Service Order #: _____ Non SAR: _____

Analyses Requested

Preservation Codes										
BTEX + MTBE	8260	8021	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOG 1664A ^{HEM} SET PAHs by 8270 Wear Metals by 6010										

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE	8260	8021	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	TOG 1664A ^{HEM} SET	PAHs by 8270	Wear Metals by 6010	
mw-2-30	Soil			14 10 02	1520		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mw-2-35.5	I			↓	1615		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mw-2	W			↓	1645		X		16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW3-10'	S			14 10 03	900		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW3-15'	S			14 10 03	915		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW3-20'	S			14 10 03	1008		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW3-28'	S			↓	1120		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW3-30'	S			↓	1130		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW3-35'	S			↓	1245		X		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)

STD TAT 72 hour 48 hour
 24 hour 4 day 5 day

Relinquished by: <u>David Smalley</u>	Date: <u>10/3/14</u>	Time: <u>200</u>	Received by: <u>[Signature]</u>	Date: <u>10/3/14</u>	Time: <u>1400</u>
Relinquished by: <u>[Signature]</u>	Date: <u>03 OCT 14</u>	Time: <u>1630</u>	Received by: <u>FEDEX</u>	Date:	Time:
Relinquished by: _____	Date:	Time:	Received by: _____	Date:	Time:

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by Commercial Carrier:	Received by:	Date:	Time:
UPS <u>FedEx</u> Other _____	<u>[Signature]</u>	10.4.14	915
Temperature Upon Receipt: <u>0.4 - 2.5 C°</u>	Custody Seals Intact?	<u>Yes</u>	No

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

October 17, 2014

Project: 373378 Tidewater Oakland

Submittal Date: 10/04/2014

Group Number: 1508602

PO Number: 4072862

State of Sample Origin: CA

Client Sample DescriptionLancaster Labs (LL) #

BH1-S-10-141001 Grab Soil	7625175
BH1-S-15-141001 Grab Soil	7625176
BH1-S-20-141001 Grab Soil	7625177
BH7-S-5-141001 Grab Soil	7625178
BH1-S-25-141001 Grab Soil	7625179
BH1-S-30-141001 Grab Soil	7625180
BH1-S-35-141001 Grab Soil	7625181
MW1-S-5-141001 Grab Soil	7625182
MW1-S-10-141001 Grab Soil	7625183
MW1-S-15-141001 Grab Soil	7625184
MW1-S-20-141001 Grab Soil	7625185
BH6-S-5-140930 Grab Soil	7625186
BH4-S-5-141001 Grab Soil	7625187
MW1-S-25-141001 Grab Soil	7625188
BH1-W-141001 Grab Water	7625189
BH2-S-10-141002 Grab Soil	7625190
BH2-S-15-141002 Grab Soil	7625191
BH2-S-20-141002 Grab Soil	7625192
MW2-S-5-141002 Grab Soil	7625193
BH5-S-5-141002 Grab Soil	7625194
BH7-S-10-141002 Grab Soil	7625195
BH7-S-15-141002 Grab Soil	7625196
MW2-S-10-141002 Grab Soil	7625197
MW2-S-20-141002 Grab Soil	7625198
MW2-S-15-141002 Grab Soil	7625199
MW2-S-25-141002 Grab Soil	7625200

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: David Herzog
ELECTRONIC COPY TO	CRA	Attn: Laura Heberle

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: BH1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625175
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.02
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	Bromobenzene	108-86-1	N.D.	0.001	1.02
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.02
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.02
10237	Bromoform	75-25-2	N.D.	0.001	1.02
10237	Bromomethane	74-83-9	N.D.	0.002	1.02
10237	2-Butanone	78-93-3	N.D.	0.004	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.02
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.02
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.02
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.02
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.02
10237	Chloroethane	75-00-3	N.D.	0.002	1.02
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.02
10237	Chloroform	67-66-3	N.D.	0.001	1.02
10237	Chloromethane	74-87-3	N.D.	0.002	1.02
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.02
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.02
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.02
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.02
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.02
10237	Dibromomethane	74-95-3	N.D.	0.001	1.02
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.02
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.02
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.02
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.02
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.02
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.02
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.02
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.02
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.02
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.02
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.02
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Freon 113	76-13-1	N.D.	0.002	1.02
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.02
10237	2-Hexanone	591-78-6	N.D.	0.003	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.02
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.02

Sample Description: BH1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625175
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.02
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.02
10237	Styrene	100-42-5	N.D.	0.001	1.02
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.02
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.02
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.02
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.02
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	1.02
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.02
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.02
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.02
10237	o-Xylene	95-47-6	N.D.	0.001	1.02
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.026	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.9	23.67
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625175
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:00
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,600	4.32	1
06946	Barium	7440-39-3	60.6	0.0314	1
07914	Boron	7440-42-8	12.2	0.800	1
06949	Cadmium	7440-43-9	N.D.	0.0314	1
01650	Calcium	7440-70-2	3,630	3.61	1
06951	Chromium	7440-47-3	35.5	0.105	1
06953	Copper	7440-50-8	40.3	0.314	1
01654	Iron	7439-89-6	25,400	3.18	1
06955	Lead	7439-92-1	2.19	0.476	1
01657	Magnesium	7439-95-4	4,920	1.59	1
06958	Manganese	7439-96-5	677	0.0790	1
06960	Molybdenum	7439-98-7	N.D.	0.162	1
06961	Nickel	7440-02-0	29.8	0.143	1
10145	Phosphorus	7723-14-0	66.3	0.305	1
12763	Silicon	7440-21-3	650	1.60	1
06966	Silver	7440-22-4	N.D.	0.181	1
01667	Sodium	7440-23-5	375	15.9	1
12003	Sulfur	7704-34-9	25.8 J	1.07	1
06969	Tin	7440-31-5	1.46 J	0.410	1
06970	Titanium	7440-32-6	446	0.162	1
06971	Vanadium	7440-62-2	104	0.0867	1
06972	Zinc	7440-66-6	27.6	0.248	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 18:31	Chelsea B Stong	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	3	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	4	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:18	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 17:19	Mitchell R Washel	n.a.

Sample Description: BH1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625175
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH110

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	3	201427735799	10/04/2014 17:19	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 02:31	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 01:23	Laura M Krieger	23.67
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 17:20	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 17:24	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	3	201427735799	10/04/2014 17:21	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	4	201427735799	10/04/2014 17:23	Mitchell R Washel	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	5	201427735799	10/04/2014 17:21	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 03:37	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06960	Molybdenum	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:46	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
12003	Sulfur	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	142795708002	10/08/2014 08:06	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708002	10/07/2014 08:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625176
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:15
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.008	1.08
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.08
10237	Benzene	71-43-2	N.D.	0.0005	1.08
10237	Bromobenzene	108-86-1	N.D.	0.001	1.08
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.08
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.08
10237	Bromoform	75-25-2	N.D.	0.001	1.08
10237	Bromomethane	74-83-9	N.D.	0.002	1.08
10237	2-Butanone	78-93-3	N.D.	0.004	1.08
10237	t-Butyl alcohol	75-65-0	N.D.	0.022	1.08
10237	n-Butylbenzene	104-51-8	0.007	0.001	1.08
10237	sec-Butylbenzene	135-98-8	0.005 J	0.001	1.08
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.08
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.08
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.08
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.08
10237	Chloroethane	75-00-3	N.D.	0.002	1.08
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.08
10237	Chloroform	67-66-3	N.D.	0.001	1.08
10237	Chloromethane	74-87-3	N.D.	0.002	1.08
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.08
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.08
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.08
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.08
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.08
10237	Dibromomethane	74-95-3	N.D.	0.001	1.08
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.08
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.08
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.08
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.08
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.08
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.08
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.08
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.08
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.08
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.08
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.08
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.08
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.08
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.08
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.08
10237	Ethanol	64-17-5	N.D.	0.11	1.08
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.08
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.08
10237	Freon 113	76-13-1	N.D.	0.002	1.08
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.08
10237	2-Hexanone	591-78-6	N.D.	0.003	1.08
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.08
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.08
10237	p-Isopropyltoluene	99-87-6	0.001 J	0.001	1.08

Sample Description: BH1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625176
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:15
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.08
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.08
10237	Methylene Chloride	75-09-2	0.003 J	0.002	1.08
10237	Naphthalene	91-20-3	N.D.	0.001	1.08
10237	n-Propylbenzene	103-65-1	0.002 J	0.001	1.08
10237	Styrene	100-42-5	N.D.	0.001	1.08
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.08
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.08
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.08
10237	Toluene	108-88-3	N.D.	0.001	1.08
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.08
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.08
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.08
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.08
10237	Trichloroethene	79-01-6	N.D.	0.001	1.08
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.08
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.08
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.08
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.08
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.08
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.08
10237	o-Xylene	95-47-6	N.D.	0.001	1.08
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	2.4	1	24.68
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	13	4.0	1

Sample Description: BH1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625176
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:15
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,100	4.37	1
06946	Barium	7440-39-3	63.4	0.0317	1
07914	Boron	7440-42-8	8.66	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0317	1
01650	Calcium	7440-70-2	11,100	3.64	1
06951	Chromium	7440-47-3	20.3	0.106	1
06953	Copper	7440-50-8	75.1	0.317	1
01654	Iron	7439-89-6	33,500	16.1	5
06955	Lead	7439-92-1	4.08	0.481	1
01657	Magnesium	7439-95-4	7,680	1.61	1
06958	Manganese	7439-96-5	466	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	18.2	0.144	1
10145	Phosphorus	7723-14-0	74.3	0.308	1
12763	Silicon	7440-21-3	243	1.55	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	449	16.1	1
12003	Sulfur	7704-34-9	42.9 J	1.08	1
06969	Tin	7440-31-5	1.57 J	0.413	1
06970	Titanium	7440-32-6	477	0.163	1
06971	Vanadium	7440-62-2	155	0.0875	1
06972	Zinc	7440-66-6	34.9	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 19:38	Chelsea B Stong	1.08
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:54	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 02:56	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 07:25	Laura M Krieger	24.68
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:55	Mitchell R Washel	n.a.

Sample Description: BH1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625176
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:15

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

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Suite 107

Rancho Cordova CA 95670

BH115

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 03:59	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	142795708002	10/08/2014 18:01	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142795708002	10/08/2014 18:01	Katlin N Cataldi	1
01650	Calcium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	142795708002	10/08/2014 18:05	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06960	Molybdenum	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:49	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
12003	Sulfur	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	142795708002	10/08/2014 08:10	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708002	10/07/2014 08:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625177
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

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Rancho Cordova CA 95670

BH120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.99
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	Bromobenzene	108-86-1	N.D.	0.001	0.99
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.99
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.99
10237	Bromoform	75-25-2	N.D.	0.001	0.99
10237	Bromomethane	74-83-9	N.D.	0.002	0.99
10237	2-Butanone	78-93-3	N.D.	0.004	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	n-Butylbenzene	104-51-8	0.002 J	0.001	0.99
10237	sec-Butylbenzene	135-98-8	0.001 J	0.001	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.99
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.99
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.99
10237	Chloroethane	75-00-3	N.D.	0.002	0.99
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.99
10237	Chloroform	67-66-3	N.D.	0.001	0.99
10237	Chloromethane	74-87-3	N.D.	0.002	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.99
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.99
10237	Dibromomethane	74-95-3	N.D.	0.001	0.99
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.99
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.99
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Freon 113	76-13-1	N.D.	0.002	0.99
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.99
10237	2-Hexanone	591-78-6	N.D.	0.003	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.99

Sample Description: BH1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625177
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.99
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.99
10237	Styrene	100-42-5	N.D.	0.001	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.99
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.99
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.99
10237	o-Xylene	95-47-6	N.D.	0.001	0.99
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	0.003 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.004 J	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.004 J	0.003	1
10724	Pyrene	129-00-0	0.005 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	8.3	1	24.63
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625177
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 10:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

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Rancho Cordova CA 95670

BH120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400	4.54	1
06946	Barium	7440-39-3	73.3	0.0330	1
07914	Boron	7440-42-8	7.14	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.0330	1
01650	Calcium	7440-70-2	8,340	3.79	1
06951	Chromium	7440-47-3	31.3	0.110	1
06953	Copper	7440-50-8	90.4	0.330	1
01654	Iron	7439-89-6	33,500	16.7	5
06955	Lead	7439-92-1	5.24	0.500	1
01657	Magnesium	7439-95-4	9,040	1.67	1
06958	Manganese	7439-96-5	813	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	33.1	0.150	1
10145	Phosphorus	7723-14-0	56.4	0.320	1
12763	Silicon	7440-21-3	210	1.60	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	584	16.7	1
12003	Sulfur	7704-34-9	112	1.12	1
06969	Tin	7440-31-5	1.61 J	0.430	1
06970	Titanium	7440-32-6	225	0.170	1
06971	Vanadium	7440-62-2	155	0.0910	1
06972	Zinc	7440-66-6	38.1	0.260	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 20:00	Chelsea B Stong	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:50	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 03:21	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 08:01	Laura M Krieger	24.63
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:51	Mitchell R Washel	n.a.

Sample Description: BH1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625177
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Rancho Cordova CA 95670

BH120

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 06:33	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	142795708002	10/08/2014 18:16	Katlin N Cataldi	1
01650	Calcium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	142795708002	10/08/2014 18:20	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06960	Molybdenum	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:01	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
12003	Sulfur	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	142795708002	10/08/2014 08:15	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708002	10/07/2014 08:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH7-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625178
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH705

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.96
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	Bromobenzene	108-86-1	N.D.	0.001	0.96
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.96
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.96
10237	Bromoform	75-25-2	N.D.	0.001	0.96
10237	Bromomethane	74-83-9	N.D.	0.002	0.96
10237	2-Butanone	78-93-3	N.D.	0.004	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.96
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.96
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.96
10237	Chloroethane	75-00-3	N.D.	0.002	0.96
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.96
10237	Chloroform	67-66-3	N.D.	0.001	0.96
10237	Chloromethane	74-87-3	N.D.	0.002	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.96
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.96
10237	Dibromomethane	74-95-3	N.D.	0.001	0.96
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.96
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.96
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	Freon 113	76-13-1	N.D.	0.002	0.96
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.96
10237	2-Hexanone	591-78-6	N.D.	0.003	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.96

Sample Description: BH7-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625178
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH705

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.96
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.96
10237	Styrene	100-42-5	N.D.	0.001	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.96
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.96
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.96
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.96
10237	o-Xylene	95-47-6	N.D.	0.001	0.96
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	0.005 J	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	0.008 J	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	0.010 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.006 J	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.004 J	0.003	1
10724	Phenanthrene	85-01-8	0.007 J	0.003	1
10724	Pyrene	129-00-0	0.006 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	24.13
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	6.4 J	4.0	1

Sample Description: BH7-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625178
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:00
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH705

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,700	4.54	1
06946	Barium	7440-39-3	111	0.0330	1
07914	Boron	7440-42-8	8.75	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.165	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,100	3.79	1
06951	Chromium	7440-47-3	54.1	0.110	1
06953	Copper	7440-50-8	69.6	0.330	1
01654	Iron	7439-89-6	45,300	16.7	5
06955	Lead	7439-92-1	8.38	0.500	1
01657	Magnesium	7439-95-4	5,870	1.67	1
06958	Manganese	7439-96-5	565	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	37.2	0.150	1
10145	Phosphorus	7723-14-0	119	0.320	1
12763	Silicon	7440-21-3	341	1.61	1
06966	Silver	7440-22-4	3.23	0.190	1
01667	Sodium	7440-23-5	277	16.7	1
12003	Sulfur	7704-34-9	83.6	1.12	1
06969	Tin	7440-31-5	1.77 J	0.430	1
06970	Titanium	7440-32-6	516	0.170	1
06971	Vanadium	7440-62-2	166	0.0910	1
06972	Zinc	7440-66-6	30.8	0.260	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 18:53	Chelsea B Stong	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:45	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 05:29	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 08:37	Laura M Krieger	24.13

Sample Description: BH7-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625178
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH705

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:46	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 07:38	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 23:48	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 23:48	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:45	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 23:44	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:34	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625179
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.95
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.95
10237	Benzene	71-43-2	N.D.	0.0005	0.95
10237	Bromobenzene	108-86-1	N.D.	0.001	0.95
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.95
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.95
10237	Bromoform	75-25-2	N.D.	0.001	0.95
10237	Bromomethane	74-83-9	N.D.	0.002	0.95
10237	2-Butanone	78-93-3	N.D.	0.004	0.95
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.95
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.95
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.95
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.95
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.95
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.95
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.95
10237	Chloroethane	75-00-3	N.D.	0.002	0.95
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.95
10237	Chloroform	67-66-3	N.D.	0.001	0.95
10237	Chloromethane	74-87-3	N.D.	0.002	0.95
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.95
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.95
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.95
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.95
10237	Dibromomethane	74-95-3	N.D.	0.001	0.95
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.95
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.95
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.95
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.95
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.95
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.95
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.95
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.95
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.95
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.95
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.95
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.95
10237	Ethanol	64-17-5	N.D.	0.095	0.95
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.95
10237	Freon 113	76-13-1	N.D.	0.002	0.95
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.95
10237	2-Hexanone	591-78-6	N.D.	0.003	0.95
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.95
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.95
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.95

Sample Description: BH1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625179
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.95
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.95
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.95
10237	Naphthalene	91-20-3	N.D.	0.001	0.95
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.95
10237	Styrene	100-42-5	N.D.	0.001	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.95
10237	Toluene	108-88-3	N.D.	0.001	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.95
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.95
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.95
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.95
10237	Trichloroethene	79-01-6	N.D.	0.001	0.95
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.95
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.95
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.95
10237	o-Xylene	95-47-6	N.D.	0.001	0.95
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	24.53
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625179
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,700	4.32	1
06946	Barium	7440-39-3	75.6	0.0314	1
07914	Boron	7440-42-8	10.9	0.800	1
06949	Cadmium	7440-43-9	N.D.	0.0314	1
01650	Calcium	7440-70-2	59,700	18.0	5
06951	Chromium	7440-47-3	32.9	0.105	1
06953	Copper	7440-50-8	104	0.314	1
01654	Iron	7439-89-6	41,400	15.9	5
06955	Lead	7439-92-1	7.27	0.476	1
01657	Magnesium	7439-95-4	10,600	1.59	1
06958	Manganese	7439-96-5	597	0.0790	1
06960	Molybdenum	7439-98-7	N.D.	0.162	1
06961	Nickel	7440-02-0	25.4	0.143	1
10145	Phosphorus	7723-14-0	69.3	0.305	1
12763	Silicon	7440-21-3	314	1.55	1
06966	Silver	7440-22-4	N.D.	0.181	1
01667	Sodium	7440-23-5	518	15.9	1
12003	Sulfur	7704-34-9	28.5 J	1.07	1
06969	Tin	7440-31-5	1.51 J	0.410	1
06970	Titanium	7440-32-6	585	0.162	1
06971	Vanadium	7440-62-2	157	0.0867	1
06972	Zinc	7440-66-6	39.6	0.248	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142792AA	10/06/2014 19:16	Chelsea B Stong	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:39	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14281SLB026	10/10/2014 04:12	William H Saadeh	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14281SLB026	10/09/2014 05:50	Roman Kuropatkin	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 09:13	Laura M Krieger	24.53
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:40	Mitchell R Washel	n.a.

Sample Description: BH1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625179
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH125

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 04:21	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:03	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 23:52	Elaine F Stoltzfus	5
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/08/2014 23:52	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:49	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/09/2014 12:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:37	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klump	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH1-S-30-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625180
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH130

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.99
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	Bromobenzene	108-86-1	N.D.	0.001	0.99
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.99
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.99
10237	Bromoform	75-25-2	N.D.	0.001	0.99
10237	Bromomethane	74-83-9	N.D.	0.002	0.99
10237	2-Butanone	78-93-3	N.D.	0.004	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.99
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.99
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.99
10237	Chloroethane	75-00-3	N.D.	0.002	0.99
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.99
10237	Chloroform	67-66-3	N.D.	0.001	0.99
10237	Chloromethane	74-87-3	N.D.	0.002	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.99
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.99
10237	Dibromomethane	74-95-3	N.D.	0.001	0.99
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.99
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.99
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Freon 113	76-13-1	N.D.	0.002	0.99
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.99
10237	2-Hexanone	591-78-6	N.D.	0.003	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.99

Sample Description: BH1-S-30-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625180
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH130

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.99
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.99
10237	Styrene	100-42-5	N.D.	0.001	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.99
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.99
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.99
10237	o-Xylene	95-47-6	N.D.	0.001	0.99
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.65
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH1-S-30-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625180
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 12:45
 Submitted: 10/04/2014 09:15
 Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

BH130

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,700	4.41	1
06946	Barium	7440-39-3	84.0	0.0320	1
07914	Boron	7440-42-8	10.8	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	9,340	3.68	1
06951	Chromium	7440-47-3	54.4	0.107	1
06953	Copper	7440-50-8	84.4	0.320	1
01654	Iron	7439-89-6	41,200	16.2	5
06955	Lead	7439-92-1	8.76	0.485	1
01657	Magnesium	7439-95-4	9,960	1.62	1
06958	Manganese	7439-96-5	695	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	54.6	0.146	1
10145	Phosphorus	7723-14-0	101	0.311	1
12763	Silicon	7440-21-3	183	1.60	1
06966	Silver	7440-22-4	4.24	0.184	1
01667	Sodium	7440-23-5	441	16.2	1
12003	Sulfur	7704-34-9	15.8 J	1.09	1
06969	Tin	7440-31-5	1.66 J	0.417	1
06970	Titanium	7440-32-6	443	0.165	1
06971	Vanadium	7440-62-2	159	0.0883	1
06972	Zinc	7440-66-6	47.7	0.252	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/06/2014 23:40	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:34	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 11:08	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 19:19	Laura M Krieger	24.65

Sample Description: BH1-S-30-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625180
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Project Name: 373378 Tidewater Oakland

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Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH130

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:35	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 04:43	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:11	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 00:11	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:53	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/09/2014 00:07	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:41	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH1-S-35-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625181
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 13:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.97
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.97
10237	Benzene	71-43-2	N.D.	0.0005	0.97
10237	Bromobenzene	108-86-1	N.D.	0.001	0.97
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.97
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.97
10237	Bromoform	75-25-2	N.D.	0.001	0.97
10237	Bromomethane	74-83-9	N.D.	0.002	0.97
10237	2-Butanone	78-93-3	N.D.	0.004	0.97
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.97
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.97
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.97
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.97
10237	Chloroethane	75-00-3	N.D.	0.002	0.97
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.97
10237	Chloroform	67-66-3	N.D.	0.001	0.97
10237	Chloromethane	74-87-3	N.D.	0.002	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.97
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.97
10237	Dibromomethane	74-95-3	N.D.	0.001	0.97
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.97
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.97
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.97
10237	Ethanol	64-17-5	N.D.	0.097	0.97
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.97
10237	Freon 113	76-13-1	N.D.	0.002	0.97
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.97
10237	2-Hexanone	591-78-6	N.D.	0.003	0.97
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.97
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.97

Sample Description: BH1-S-35-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625181
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 13:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.97
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.97
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.97
10237	Styrene	100-42-5	N.D.	0.001	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.97
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.97
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.97
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.97
10237	o-Xylene	95-47-6	N.D.	0.001	0.97
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.33
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH1-S-35-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625181
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 13:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,800	4.37	1
06946	Barium	7440-39-3	133	0.0317	1
07914	Boron	7440-42-8	9.94	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0317	1
01650	Calcium	7440-70-2	6,650	3.64	1
06951	Chromium	7440-47-3	58.2	0.106	1
06953	Copper	7440-50-8	65.9	0.317	1
01654	Iron	7439-89-6	37,100	6.42	2
06955	Lead	7439-92-1	9.09	0.481	1
01657	Magnesium	7439-95-4	8,590	1.61	1
06958	Manganese	7439-96-5	930	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	59.3	0.144	1
10145	Phosphorus	7723-14-0	88.2	0.308	1
12763	Silicon	7440-21-3	525	1.61	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	341	16.1	1
12003	Sulfur	7704-34-9	7.77 J	1.08	1
06969	Tin	7440-31-5	2.02 J	0.413	1
06970	Titanium	7440-32-6	564	0.163	1
06971	Vanadium	7440-62-2	132	0.0875	1
06972	Zinc	7440-66-6	43.3	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 00:02	Christopher G Torres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:25	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 11:31	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 19:57	Laura M Krieger	25.33

Sample Description: BH1-S-35-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625181
LL Group # 1508602
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Project Name: 373378 Tidewater Oakland

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BH135

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:27	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 05:05	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:15	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 00:19	Elaine F Stoltzfus	2
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/09/2014 00:15	Elaine F Stoltzfus	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 02:56	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:45	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW1-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625182
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 14:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW1-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625182
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 14:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	0.005 J	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	0.007 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.007 J	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.004 J	0.003	1
10724	Pyrene	129-00-0	0.008 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.98
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW1-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625182
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 14:00
 Submitted: 10/04/2014 09:15
 Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

MO1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	31,100	4.37	1
06946	Barium	7440-39-3	82.9	0.0317	1
07914	Boron	7440-42-8	13.3	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.159	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	4,940	3.64	1
06951	Chromium	7440-47-3	56.8	0.106	1
06953	Copper	7440-50-8	69.6	0.317	1
01654	Iron	7439-89-6	40,000	16.1	5
06955	Lead	7439-92-1	7.93	0.481	1
01657	Magnesium	7439-95-4	6,730	1.61	1
06958	Manganese	7439-96-5	483	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	34.8	0.144	1
10145	Phosphorus	7723-14-0	91.9	0.308	1
12763	Silicon	7440-21-3	255	1.60	1
06966	Silver	7440-22-4	3.38	0.183	1
01667	Sodium	7440-23-5	415	16.1	1
12003	Sulfur	7704-34-9	68.2	1.08	1
06969	Tin	7440-31-5	1.77 J	0.413	1
06970	Titanium	7440-32-6	277	0.163	1
06971	Vanadium	7440-62-2	153	0.0875	1
06972	Zinc	7440-66-6	29.6	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 00:24	Christopher G Torres	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:20	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 11:54	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 20:34	Laura M Krieger	24.98

Sample Description: MW1-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625182
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Project Name: 373378 Tidewater Oakland

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Conestoga-Rovers & Associates
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Rancho Cordova CA 95670

MO1-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:20	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 05:27	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:31	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 00:31	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:00	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/09/2014 00:27	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:48	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625183
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:20
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	0.011 J	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625183
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:20

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.65
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625183
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:20
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,900	4.54	1
06946	Barium	7440-39-3	82.7	0.0330	1
07914	Boron	7440-42-8	12.8	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.0330	1
01650	Calcium	7440-70-2	4,330	3.79	1
06951	Chromium	7440-47-3	46.7	0.110	1
06953	Copper	7440-50-8	52.0	0.330	1
01654	Iron	7439-89-6	32,500	16.7	5
06955	Lead	7439-92-1	7.96	0.500	1
01657	Magnesium	7439-95-4	5,470	1.67	1
06958	Manganese	7439-96-5	632	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	35.5	0.150	1
10145	Phosphorus	7723-14-0	85.0	0.320	1
12763	Silicon	7440-21-3	424	1.57	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	478	16.7	1
12003	Sulfur	7704-34-9	25.0 J	1.12	1
06969	Tin	7440-31-5	2.00 J	0.430	1
06970	Titanium	7440-32-6	714	0.170	1
06971	Vanadium	7440-62-2	141	0.0910	1
06972	Zinc	7440-66-6	35.2	0.260	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 00:47	Christopher G Torres	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:15	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 12:17	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 21:12	Laura M Krieger	24.65

Sample Description: MW1-S-10-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625183
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:20
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO110

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:16	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 07:17	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:34	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 00:38	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:11	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 09:59	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625184
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:45
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	0.011 J	0.007	1.05
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.05
10237	Benzene	71-43-2	N.D.	0.0005	1.05
10237	Bromobenzene	108-86-1	N.D.	0.001	1.05
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.05
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.05
10237	Bromoform	75-25-2	N.D.	0.001	1.05
10237	Bromomethane	74-83-9	N.D.	0.002	1.05
10237	2-Butanone	78-93-3	N.D.	0.004	1.05
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.05
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.05
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.05
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.05
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.05
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.05
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.05
10237	Chloroethane	75-00-3	N.D.	0.002	1.05
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.05
10237	Chloroform	67-66-3	N.D.	0.001	1.05
10237	Chloromethane	74-87-3	N.D.	0.002	1.05
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.05
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.05
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.05
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.05
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.05
10237	Dibromomethane	74-95-3	N.D.	0.001	1.05
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.05
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.05
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.05
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.05
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.05
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.05
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.05
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.05
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.05
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.05
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.05
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.05
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.05
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.05
10237	Ethanol	64-17-5	N.D.	0.11	1.05
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.05
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.05
10237	Freon 113	76-13-1	N.D.	0.002	1.05
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.05
10237	2-Hexanone	591-78-6	N.D.	0.003	1.05
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.05
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.05
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.05

Sample Description: MW1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625184
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.05
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.05
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.05
10237	Naphthalene	91-20-3	N.D.	0.001	1.05
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.05
10237	Styrene	100-42-5	N.D.	0.001	1.05
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.05
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.05
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.05
10237	Toluene	108-88-3	N.D.	0.001	1.05
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.05
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.05
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.05
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.05
10237	Trichloroethene	79-01-6	N.D.	0.001	1.05
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.05
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.05
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.05
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.05
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.05
10237	o-Xylene	95-47-6	N.D.	0.001	1.05
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.005 J	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.85
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625184
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:45
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,000	4.54	1
06946	Barium	7440-39-3	82.9	0.0330	1
07914	Boron	7440-42-8	10.4	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.0330	1
01650	Calcium	7440-70-2	5,210	3.79	1
06951	Chromium	7440-47-3	45.0	0.110	1
06953	Copper	7440-50-8	58.7	0.330	1
01654	Iron	7439-89-6	33,800	16.7	5
06955	Lead	7439-92-1	8.35	0.500	1
01657	Magnesium	7439-95-4	6,410	1.67	1
06958	Manganese	7439-96-5	544	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	44.1	0.150	1
10145	Phosphorus	7723-14-0	94.1	0.320	1
12763	Silicon	7440-21-3	267	1.60	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	517	16.7	1
12003	Sulfur	7704-34-9	14.6 J	1.12	1
06969	Tin	7440-31-5	2.08 J	0.430	1
06970	Titanium	7440-32-6	652	0.170	1
06971	Vanadium	7440-62-2	134	0.0910	1
06972	Zinc	7440-66-6	38.0	0.260	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 01:09	Christopher G Torres	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:09	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 12:40	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 21:50	Laura M Krieger	25.85

Sample Description: MW1-S-15-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625184
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 15:45
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Conestoga-Rovers & Associates
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MO115

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:10	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 05:49	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:50	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 00:54	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:15	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 10:02	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625185
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 16:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	0.032	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	0.001 J	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	0.014	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	0.01	0.001	1
10237	sec-Butylbenzene	135-98-8	0.004 J	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	0.005	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	0.003 J	0.001	1
10237	p-Isopropyltoluene	99-87-6	0.002 J	0.001	1

Sample Description: MW1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625185
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 16:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	0.009	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.006 J	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	1.5	0.5	24.93
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625185
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 16:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	28,700	4.32	1
06946	Barium	7440-39-3	97.0	0.0314	1
07914	Boron	7440-42-8	8.35	0.800	1
06949	Cadmium	7440-43-9	N.D.	0.0314	1
01650	Calcium	7440-70-2	32,100	3.61	1
06951	Chromium	7440-47-3	41.7	0.105	1
06953	Copper	7440-50-8	88.1	0.314	1
01654	Iron	7439-89-6	41,200	15.9	5
06955	Lead	7439-92-1	8.26	0.476	1
01657	Magnesium	7439-95-4	9,300	1.59	1
06958	Manganese	7439-96-5	672	0.0790	1
06960	Molybdenum	7439-98-7	N.D.	0.162	1
06961	Nickel	7440-02-0	41.5	0.143	1
10145	Phosphorus	7723-14-0	84.6	0.305	1
12763	Silicon	7440-21-3	141	1.57	1
06966	Silver	7440-22-4	2.63	0.181	1
01667	Sodium	7440-23-5	564	15.9	1
12003	Sulfur	7704-34-9	51.1	1.07	1
06969	Tin	7440-31-5	1.71 J	0.410	1
06970	Titanium	7440-32-6	474	0.162	1
06971	Vanadium	7440-62-2	179	0.0867	1
06972	Zinc	7440-66-6	40.7	0.248	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 05:38	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:02	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 13:03	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 22:28	Laura M Krieger	24.93

Sample Description: MW1-S-20-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625185
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 16:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO120

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 16:03	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 19:48	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 00:57	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 01:02	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:19	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/09/2014 00:57	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 10:05	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH6-S-5-140930 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625186
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH6-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.03
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.03
10237	Benzene	71-43-2	N.D.	0.0005	1.03
10237	Bromobenzene	108-86-1	N.D.	0.001	1.03
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.03
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.03
10237	Bromoform	75-25-2	N.D.	0.001	1.03
10237	Bromomethane	74-83-9	N.D.	0.002	1.03
10237	2-Butanone	78-93-3	N.D.	0.004	1.03
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.03
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.03
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.03
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.03
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.03
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.03
10237	Chloroethane	75-00-3	N.D.	0.002	1.03
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.03
10237	Chloroform	67-66-3	N.D.	0.001	1.03
10237	Chloromethane	74-87-3	N.D.	0.002	1.03
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.03
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.03
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.03
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.03
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.03
10237	Dibromomethane	74-95-3	N.D.	0.001	1.03
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.03
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.03
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.03
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.03
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.03
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.03
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.03
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.03
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.03
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.03
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.03
10237	Ethanol	64-17-5	N.D.	0.10	1.03
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.03
10237	Freon 113	76-13-1	N.D.	0.002	1.03
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.03
10237	2-Hexanone	591-78-6	N.D.	0.003	1.03
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.03
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.03
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.03

Sample Description: BH6-S-5-140930 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625186
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH6-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.03
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.03
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.03
10237	Naphthalene	91-20-3	N.D.	0.001	1.03
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.03
10237	Styrene	100-42-5	N.D.	0.001	1.03
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.03
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.03
10237	Toluene	108-88-3	N.D.	0.001	1.03
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.03
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.03
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.03
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.03
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.03
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.03
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.03
10237	o-Xylene	95-47-6	N.D.	0.001	1.03
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	1	24.88
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH6-S-5-140930 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625186
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:45
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH6-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,000	4.45	1
06946	Barium	7440-39-3	71.2	0.0324	1
07914	Boron	7440-42-8	14.8	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.0324	1
01650	Calcium	7440-70-2	5,980	3.72	1
06951	Chromium	7440-47-3	51.2	0.108	1
06953	Copper	7440-50-8	64.7	0.324	1
01654	Iron	7439-89-6	38,300	16.4	5
06955	Lead	7439-92-1	7.53	0.490	1
01657	Magnesium	7439-95-4	6,670	1.64	1
06958	Manganese	7439-96-5	379	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	31.0	0.147	1
10145	Phosphorus	7723-14-0	83.1	0.314	1
12763	Silicon	7440-21-3	667	1.63	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	399	16.4	1
12003	Sulfur	7704-34-9	53.8	1.10	1
06969	Tin	7440-31-5	1.69 J	0.422	1
06970	Titanium	7440-32-6	556	0.167	1
06971	Vanadium	7440-62-2	150	0.0892	1
06972	Zinc	7440-66-6	30.5	0.255	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 01:32	Christopher G Torres	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 15:02	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 13:27	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14279A31A	10/07/2014 12:09	Laura M Krieger	24.88

Sample Description: BH6-S-5-140930 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625186
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 09/30/2014 15:45
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH6-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 15:04	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142810025A	10/10/2014 06:55	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142810025A	10/09/2014 09:30	David S Schrum	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 01:05	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 01:09	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:22	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 10:09	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH4-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625187
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH4-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.99
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	Bromobenzene	108-86-1	N.D.	0.001	0.99
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.99
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.99
10237	Bromoform	75-25-2	N.D.	0.001	0.99
10237	Bromomethane	74-83-9	N.D.	0.002	0.99
10237	2-Butanone	78-93-3	N.D.	0.004	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.99
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.99
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.99
10237	Chloroethane	75-00-3	N.D.	0.002	0.99
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.99
10237	Chloroform	67-66-3	N.D.	0.001	0.99
10237	Chloromethane	74-87-3	N.D.	0.002	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.99
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.99
10237	Dibromomethane	74-95-3	N.D.	0.001	0.99
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.99
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.99
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Freon 113	76-13-1	N.D.	0.002	0.99
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.99
10237	2-Hexanone	591-78-6	N.D.	0.003	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.99

Sample Description: BH4-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625187
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH4-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.99
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.99
10237	Styrene	100-42-5	N.D.	0.001	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.99
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.99
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.99
10237	o-Xylene	95-47-6	N.D.	0.001	0.99
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.08
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH4-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625187
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH4-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,000	4.37	1
06946	Barium	7440-39-3	79.5	0.0317	1
07914	Boron	7440-42-8	7.70	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0317	1
01650	Calcium	7440-70-2	9,160	3.64	1
06951	Chromium	7440-47-3	54.2	0.106	1
06953	Copper	7440-50-8	71.7	0.317	1
01654	Iron	7439-89-6	42,700	16.1	5
06955	Lead	7439-92-1	7.92	0.481	1
01657	Magnesium	7439-95-4	6,860	1.61	1
06958	Manganese	7439-96-5	327	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	43.9	0.144	1
10145	Phosphorus	7723-14-0	84.4	0.308	1
12763	Silicon	7440-21-3	231	1.55	1
06966	Silver	7440-22-4	3.04	0.183	1
01667	Sodium	7440-23-5	281	16.1	1
12003	Sulfur	7704-34-9	55.9	1.08	1
06969	Tin	7440-31-5	1.77 J	0.413	1
06970	Titanium	7440-32-6	281	0.163	1
06971	Vanadium	7440-62-2	151	0.0875	1
06972	Zinc	7440-66-6	31.5	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 01:55	Christopher G Torres	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:55	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 13:50	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/08/2014 23:06	Laura M Krieger	25.08

Sample Description: BH4-S-5-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625187
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:00
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH4-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:56	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 20:10	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 01:13	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 01:17	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:26	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/09/2014 01:13	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 10:12	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: MW1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625188
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:15

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.33	47.35
10237	t-Amyl methyl ether	994-05-8	N.D.	0.047	47.35
10237	Benzene	71-43-2	N.D.	0.024	47.35
10237	Bromobenzene	108-86-1	N.D.	0.047	47.35
10237	Bromochloromethane	74-97-5	N.D.	0.047	47.35
10237	Bromodichloromethane	75-27-4	N.D.	0.047	47.35
10237	Bromoform	75-25-2	N.D.	0.047	47.35
10237	Bromomethane	74-83-9	N.D.	0.095	47.35
10237	2-Butanone	78-93-3	N.D.	0.19	47.35
10237	t-Butyl alcohol	75-65-0	N.D.	0.95	47.35
10237	n-Butylbenzene	104-51-8	0.26	0.047	47.35
10237	sec-Butylbenzene	135-98-8	0.063 J	0.047	47.35
10237	tert-Butylbenzene	98-06-6	N.D.	0.047	47.35
10237	Carbon Disulfide	75-15-0	N.D.	0.047	47.35
10237	Carbon Tetrachloride	56-23-5	N.D.	0.047	47.35
10237	Chlorobenzene	108-90-7	N.D.	0.047	47.35
10237	Chloroethane	75-00-3	N.D.	0.095	47.35
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.095	47.35
10237	Chloroform	67-66-3	N.D.	0.047	47.35
10237	Chloromethane	74-87-3	N.D.	0.095	47.35
10237	2-Chlorotoluene	95-49-8	N.D.	0.047	47.35
10237	4-Chlorotoluene	106-43-4	N.D.	0.047	47.35
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.095	47.35
10237	Dibromochloromethane	124-48-1	N.D.	0.047	47.35
10237	1,2-Dibromoethane	106-93-4	N.D.	0.047	47.35
10237	Dibromomethane	74-95-3	N.D.	0.047	47.35
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.047	47.35
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.047	47.35
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.047	47.35
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.095	47.35
10237	1,1-Dichloroethane	75-34-3	N.D.	0.047	47.35
10237	1,2-Dichloroethane	107-06-2	N.D.	0.047	47.35
10237	1,1-Dichloroethene	75-35-4	N.D.	0.047	47.35
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.047	47.35
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.047	47.35
10237	1,2-Dichloropropane	78-87-5	N.D.	0.047	47.35
10237	1,3-Dichloropropane	142-28-9	N.D.	0.047	47.35
10237	2,2-Dichloropropane	594-20-7	N.D.	0.047	47.35
10237	1,1-Dichloropropene	563-58-6	N.D.	0.047	47.35
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.047	47.35
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.047	47.35
10237	Ethanol	64-17-5	N.D.	4.7	47.35
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.047	47.35
10237	Ethylbenzene	100-41-4	N.D.	0.047	47.35
10237	Freon 113	76-13-1	N.D.	0.095	47.35
10237	Hexachlorobutadiene	87-68-3	N.D.	0.095	47.35
10237	2-Hexanone	591-78-6	N.D.	0.14	47.35
10237	di-Isopropyl ether	108-20-3	N.D.	0.047	47.35
10237	Isopropylbenzene	98-82-8	N.D.	0.047	47.35
10237	p-Isopropyltoluene	99-87-6	N.D.	0.047	47.35

Sample Description: MW1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625188
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:15

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	47.35
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.14	47.35
10237	Methylene Chloride	75-09-2	N.D.	0.095	47.35
10237	Naphthalene	91-20-3	5.6	0.047	47.35
10237	n-Propylbenzene	103-65-1	N.D.	0.047	47.35
10237	Styrene	100-42-5	N.D.	0.047	47.35
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.047	47.35
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.047	47.35
10237	Tetrachloroethene	127-18-4	N.D.	0.047	47.35
10237	Toluene	108-88-3	N.D.	0.047	47.35
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.047	47.35
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.047	47.35
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.047	47.35
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.047	47.35
10237	Trichloroethene	79-01-6	N.D.	0.047	47.35
10237	Trichlorofluoromethane	75-69-4	N.D.	0.095	47.35
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.047	47.35
10237	1,2,4-Trimethylbenzene	95-63-6	0.11 J	0.047	47.35
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.047	47.35
10237	Vinyl Chloride	75-01-4	N.D.	0.047	47.35
10237	m+p-Xylene	179601-23-1	N.D.	0.047	47.35
10237	o-Xylene	95-47-6	N.D.	0.047	47.35
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	54	4.2	208.99
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	7.6 J	4.0	1

Sample Description: MW1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625188
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:15
 Submitted: 10/04/2014 09:15
 Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

MO125

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	31,900	4.45	1
06946	Barium	7440-39-3	98.6	0.0324	1
07914	Boron	7440-42-8	9.63	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	8,640	3.72	1
06951	Chromium	7440-47-3	44.6	0.108	1
06953	Copper	7440-50-8	96.1	0.324	1
01654	Iron	7439-89-6	46,200	16.4	5
06955	Lead	7439-92-1	9.66	0.490	1
01657	Magnesium	7439-95-4	9,790	1.64	1
06958	Manganese	7439-96-5	627	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	40.5	0.147	1
10145	Phosphorus	7723-14-0	101	0.314	1
12763	Silicon	7440-21-3	209	1.55	1
06966	Silver	7440-22-4	5.28	0.186	1
01667	Sodium	7440-23-5	562	16.4	1
12003	Sulfur	7704-34-9	89.1	1.10	1
06969	Tin	7440-31-5	1.81 J	0.422	1
06970	Titanium	7440-32-6	704	0.167	1
06971	Vanadium	7440-62-2	208	0.0892	1
06972	Zinc	7440-66-6	43.7	0.255	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	Q142792AA	10/07/2014 03:59	Andrea E Lando	47.35
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:43	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 14:14	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 18:11	Miranda P Tillinghast	208.99

Sample Description: MW1-S-25-141001 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625188
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:15
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO125

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:44	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 20:32	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/09/2014 01:25	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 01:25	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:30	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/09/2014 01:21	Elaine F Stoltzfus	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 10:16	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH1-W-141001 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625189
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH1--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	1	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: BH1-W-141001 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625189
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH1--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	0.1 J	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	0.1 J	0.1	1
07805	Pyrene	129-00-0	0.2 J	0.1	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Chrysene

GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

Sample Description: BH1-W-141001 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625189
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH1--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
06609	TPH-DRO CA C10-C28	n.a.	92 J	50	1
Metals		SW-846 6010B	ug/l	ug/l	
01743	Aluminum	7429-90-5	578,000	337	1
07046	Barium	7440-39-3	1,450	1.7	1
08014	Boron	7440-42-8	1,480	23.0	1
07049	Cadmium	7440-43-9	N.D.	1.7	1
Reporting limits for ICP metals were raised due to interference from the sample matrix.					
01750	Calcium	7440-70-2	308,000	167	1
07051	Chromium	7440-47-3	665	6.5	1
07053	Copper	7440-50-8	1,730	14.0	1
01754	Iron	7439-89-6	714,000	167	1
07055	Lead	7439-92-1	153	23.5	1
01757	Magnesium	7439-95-4	224,000	83.5	1
07058	Manganese	7439-96-5	9,110	4.2	1
07060	Molybdenum	7439-98-7	N.D.	8.5	1
07061	Nickel	7440-02-0	506	8.0	1
10143	Phosphorus	7723-14-0	1,230	25.0	1
01765	Silicon	7440-21-3	432,000	195	2
07066	Silver	7440-22-4	N.D.	9.0	1
01767	Sodium	7440-23-5	116,000	835	1
12004	Sulfur	7704-34-9	16,400	96.0	1
07069	Tin	7440-31-5	16.6 J	12.0	1
07070	Titanium	7440-32-6	11,900	8.5	1
07071	Vanadium	7440-62-2	2,710	9.5	1
07072	Zinc	7440-66-6	817	10.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W142811AA	10/08/2014 13:27	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142811AA	10/08/2014 13:27	Sarah A Guill	1
07805	PAHs 8270C Water	SW-846 8270C	1	14280WAB026	10/08/2014 09:35	Brian K Graham	1
07807	BNA Water Extraction	SW-846 3510C	1	14280WAB026	10/07/2014 22:00	Karen L Beyer	1

Sample Description: BH1-W-141001 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625189
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

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Rancho Cordova CA 95670

BH1--

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14279A20A	10/07/2014 17:27	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14279A20A	10/07/2014 17:27	Miranda P Tillinghast	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	142800010A	10/09/2014 09:46	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	142800010A	10/07/2014 18:30	Samantha L Bronder	1
01743	Aluminum	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
08014	Boron	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
01757	Magnesium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07060	Molybdenum	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
10143	Phosphorus	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
01765	Silicon	SW-846 6010B	1	142801848002	10/10/2014 01:32	Elaine F Stoltzfus	2
07066	Silver	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
12004	Sulfur	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07069	Tin	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07070	Titanium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1

Sample Description: BH1-W-141001 Grab Water
 Facility# 373378 CRAW
 7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7625189
 LL Group # 1508602
 Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/01/2014 17:30
 Submitted: 10/04/2014 09:15
 Reported: 10/17/2014 16:22

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 Rancho Cordova CA 95670

BH1--

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07072	Zinc	SW-846 6010B	1	142801848002	10/09/2014 01:56	Elaine F Stoltzfus	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	142801848002	10/08/2014 10:38	Micaela L Dishong	1

Sample Description: BH2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625190
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.98
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.98
10237	Benzene	71-43-2	N.D.	0.0005	0.98
10237	Bromobenzene	108-86-1	N.D.	0.001	0.98
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.98
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.98
10237	Bromoform	75-25-2	N.D.	0.001	0.98
10237	Bromomethane	74-83-9	N.D.	0.002	0.98
10237	2-Butanone	78-93-3	N.D.	0.004	0.98
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.98
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.98
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.98
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.98
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.98
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.98
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.98
10237	Chloroethane	75-00-3	N.D.	0.002	0.98
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.98
10237	Chloroform	67-66-3	N.D.	0.001	0.98
10237	Chloromethane	74-87-3	N.D.	0.002	0.98
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.98
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.98
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.98
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.98
10237	Dibromomethane	74-95-3	N.D.	0.001	0.98
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.98
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.98
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.98
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.98
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.98
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.98
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.98
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.98
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.98
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.98
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.98
10237	Ethanol	64-17-5	N.D.	0.098	0.98
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Freon 113	76-13-1	N.D.	0.002	0.98
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.98
10237	2-Hexanone	591-78-6	N.D.	0.003	0.98
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.98
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.98
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.98

Sample Description: BH2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625190
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.98
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.98
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.98
10237	Styrene	100-42-5	N.D.	0.001	0.98
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.98
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.98
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.98
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.98
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.98
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.98
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.98
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.98
10237	o-Xylene	95-47-6	N.D.	0.001	0.98
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	0.003 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.008 J	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	0.6 J	0.5	23.52
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	5.6 J	3.9	1

Sample Description: BH2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625190
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:30
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,200	4.54	1
06946	Barium	7440-39-3	48.7	0.0330	1
07914	Boron	7440-42-8	8.28	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.0330	1
01650	Calcium	7440-70-2	7,680	3.79	1
06951	Chromium	7440-47-3	35.4	0.110	1
06953	Copper	7440-50-8	58.1	0.330	1
01654	Iron	7439-89-6	30,000	16.7	5
06955	Lead	7439-92-1	12.8	0.500	1
01657	Magnesium	7439-95-4	7,620	1.67	1
06958	Manganese	7439-96-5	469	0.0830	1
06960	Molybdenum	7439-98-7	0.344 J	0.170	1
06961	Nickel	7440-02-0	24.7	0.150	1
10145	Phosphorus	7723-14-0	165	0.320	1
12763	Silicon	7440-21-3	926	1.61	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	301	16.7	1
12003	Sulfur	7704-34-9	41.3 J	1.12	1
06969	Tin	7440-31-5	2.14 J	0.430	1
06970	Titanium	7440-32-6	542	0.170	1
06971	Vanadium	7440-62-2	96.7	0.0910	1
06972	Zinc	7440-66-6	51.3	0.260	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 02:17	Christopher G Torres	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:39	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 15:25	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 20:11	Miranda P Tillinghast	23.52

Sample Description: BH2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625190
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:30

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH210

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:40	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 20:54	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142795708003	10/09/2014 01:40	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142825708002	10/10/2014 03:33	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142795708003	10/08/2014 10:19	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142795708003	10/07/2014 09:00	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708002	10/09/2014 13:17	James L Mertz	1

Sample Description: BH2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625191
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:40

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.03
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.03
10237	Benzene	71-43-2	N.D.	0.0005	1.03
10237	Bromobenzene	108-86-1	N.D.	0.001	1.03
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.03
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.03
10237	Bromoform	75-25-2	N.D.	0.001	1.03
10237	Bromomethane	74-83-9	N.D.	0.002	1.03
10237	2-Butanone	78-93-3	N.D.	0.004	1.03
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.03
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.03
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.03
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.03
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.03
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.03
10237	Chloroethane	75-00-3	N.D.	0.002	1.03
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.03
10237	Chloroform	67-66-3	N.D.	0.001	1.03
10237	Chloromethane	74-87-3	N.D.	0.002	1.03
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.03
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.03
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.03
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.03
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.03
10237	Dibromomethane	74-95-3	N.D.	0.001	1.03
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.03
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.03
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.03
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.03
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.03
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.03
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.03
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.03
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.03
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.03
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.03
10237	Ethanol	64-17-5	N.D.	0.10	1.03
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.03
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.03
10237	Freon 113	76-13-1	N.D.	0.002	1.03
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.03
10237	2-Hexanone	591-78-6	N.D.	0.003	1.03
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.03
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.03
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.03

Sample Description: BH2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625191
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:40

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.03
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.03
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.03
10237	Naphthalene	91-20-3	N.D.	0.001	1.03
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.03
10237	Styrene	100-42-5	N.D.	0.001	1.03
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.03
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.03
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.03
10237	Toluene	108-88-3	N.D.	0.001	1.03
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.03
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.03
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.03
10237	Trichloroethene	79-01-6	N.D.	0.001	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.03
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.03
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.03
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.03
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.03
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.03
10237	o-Xylene	95-47-6	N.D.	0.001	1.03
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.2
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	7.0 J	4.0	1

Sample Description: BH2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625191
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:40
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,500	4.45	1
06946	Barium	7440-39-3	74.2	0.0324	1
07914	Boron	7440-42-8	6.99	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,200	3.72	1
06951	Chromium	7440-47-3	43.6	0.108	1
06953	Copper	7440-50-8	55.4	0.324	1
01654	Iron	7439-89-6	31,200	16.4	5
06955	Lead	7439-92-1	7.38	0.490	1
01657	Magnesium	7439-95-4	6,840	1.64	1
06958	Manganese	7439-96-5	378	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	38.7	0.147	1
10145	Phosphorus	7723-14-0	84.7	0.314	1
12763	Silicon	7440-21-3	180	1.57	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	421	16.4	1
12003	Sulfur	7704-34-9	9.49 J	1.10	1
06969	Tin	7440-31-5	1.91 J	0.422	1
06970	Titanium	7440-32-6	540	0.167	1
06971	Vanadium	7440-62-2	132	0.0892	1
06972	Zinc	7440-66-6	33.8	0.255	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 06:24	Christopher G Torres	1.03
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:30	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 15:49	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 01:37	Laura M Krieger	25.2

Sample Description: BH2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625191
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:40

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH215

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:32	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 21:16	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 10:32	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 10:32	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:53	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:26	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625192
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:50

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.38	54.35
10237	t-Amyl methyl ether	994-05-8	N.D.	0.054	54.35
10237	Benzene	71-43-2	N.D.	0.027	54.35
10237	Bromobenzene	108-86-1	N.D.	0.054	54.35
10237	Bromochloromethane	74-97-5	N.D.	0.054	54.35
10237	Bromodichloromethane	75-27-4	N.D.	0.054	54.35
10237	Bromoform	75-25-2	N.D.	0.054	54.35
10237	Bromomethane	74-83-9	N.D.	0.11	54.35
10237	2-Butanone	78-93-3	N.D.	0.22	54.35
10237	t-Butyl alcohol	75-65-0	N.D.	1.1	54.35
10237	n-Butylbenzene	104-51-8	0.10 J	0.054	54.35
10237	sec-Butylbenzene	135-98-8	0.20 J	0.054	54.35
10237	tert-Butylbenzene	98-06-6	N.D.	0.054	54.35
10237	Carbon Disulfide	75-15-0	N.D.	0.054	54.35
10237	Carbon Tetrachloride	56-23-5	N.D.	0.054	54.35
10237	Chlorobenzene	108-90-7	N.D.	0.054	54.35
10237	Chloroethane	75-00-3	N.D.	0.11	54.35
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.11	54.35
10237	Chloroform	67-66-3	N.D.	0.054	54.35
10237	Chloromethane	74-87-3	N.D.	0.11	54.35
10237	2-Chlorotoluene	95-49-8	N.D.	0.054	54.35
10237	4-Chlorotoluene	106-43-4	N.D.	0.054	54.35
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.11	54.35
10237	Dibromochloromethane	124-48-1	N.D.	0.054	54.35
10237	1,2-Dibromoethane	106-93-4	N.D.	0.054	54.35
10237	Dibromomethane	74-95-3	N.D.	0.054	54.35
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.054	54.35
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.054	54.35
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.054	54.35
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.11	54.35
10237	1,1-Dichloroethane	75-34-3	N.D.	0.054	54.35
10237	1,2-Dichloroethane	107-06-2	N.D.	0.054	54.35
10237	1,1-Dichloroethene	75-35-4	N.D.	0.054	54.35
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.054	54.35
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.054	54.35
10237	1,2-Dichloropropane	78-87-5	N.D.	0.054	54.35
10237	1,3-Dichloropropane	142-28-9	N.D.	0.054	54.35
10237	2,2-Dichloropropane	594-20-7	N.D.	0.054	54.35
10237	1,1-Dichloropropene	563-58-6	N.D.	0.054	54.35
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.054	54.35
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.054	54.35
10237	Ethanol	64-17-5	N.D.	5.4	54.35
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.054	54.35
10237	Ethylbenzene	100-41-4	N.D.	0.054	54.35
10237	Freon 113	76-13-1	N.D.	0.11	54.35
10237	Hexachlorobutadiene	87-68-3	N.D.	0.11	54.35
10237	2-Hexanone	591-78-6	N.D.	0.16	54.35
10237	di-Isopropyl ether	108-20-3	N.D.	0.054	54.35
10237	Isopropylbenzene	98-82-8	N.D.	0.054	54.35
10237	p-Isopropyltoluene	99-87-6	N.D.	0.054	54.35

Sample Description: BH2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625192
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:50

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	54.35
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.16	54.35
10237	Methylene Chloride	75-09-2	N.D.	0.11	54.35
10237	Naphthalene	91-20-3	0.50	0.054	54.35
10237	n-Propylbenzene	103-65-1	N.D.	0.054	54.35
10237	Styrene	100-42-5	N.D.	0.054	54.35
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.054	54.35
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.054	54.35
10237	Tetrachloroethene	127-18-4	N.D.	0.054	54.35
10237	Toluene	108-88-3	N.D.	0.054	54.35
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.054	54.35
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.054	54.35
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.054	54.35
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.054	54.35
10237	Trichloroethene	79-01-6	N.D.	0.054	54.35
10237	Trichlorofluoromethane	75-69-4	N.D.	0.11	54.35
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.054	54.35
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.054	54.35
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.054	54.35
10237	Vinyl Chloride	75-01-4	N.D.	0.054	54.35
10237	m+p-Xylene	179601-23-1	N.D.	0.054	54.35
10237	o-Xylene	95-47-6	N.D.	0.054	54.35

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	94	3.8	190.66

GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	9.4 J	3.9	1

Sample Description: BH2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625192
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:50
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	32,900	4.41	1
06946	Barium	7440-39-3	78.8	0.0320	1
07914	Boron	7440-42-8	9.53	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	21,200	3.68	1
06951	Chromium	7440-47-3	30.1	0.107	1
06953	Copper	7440-50-8	111	0.320	1
01654	Iron	7439-89-6	44,400	16.2	5
06955	Lead	7439-92-1	8.58	0.485	1
01657	Magnesium	7439-95-4	12,200	1.62	1
06958	Manganese	7439-96-5	617	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	25.3	0.146	1
10145	Phosphorus	7723-14-0	65.9	0.311	1
12763	Silicon	7440-21-3	545	1.58	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	616	16.2	1
12003	Sulfur	7704-34-9	47.3 J	1.09	1
06969	Tin	7440-31-5	2.39 J	0.417	1
06970	Titanium	7440-32-6	706	0.165	1
06971	Vanadium	7440-62-2	198	0.0883	1
06972	Zinc	7440-66-6	38.2	0.252	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	Q142792AA	10/07/2014 04:23	Andrea E Lando	54.35
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:24	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 16:13	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 23:20	Miranda P Tillinghast	190.66

Sample Description: BH2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625192
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:50

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH220

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:25	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 21:38	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 10:40	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 10:40	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 05:57	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:29	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: MW2-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625193
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:45
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.95
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.95
10237	Benzene	71-43-2	N.D.	0.0005	0.95
10237	Bromobenzene	108-86-1	N.D.	0.0009	0.95
10237	Bromochloromethane	74-97-5	N.D.	0.0009	0.95
10237	Bromodichloromethane	75-27-4	N.D.	0.0009	0.95
10237	Bromoform	75-25-2	N.D.	0.0009	0.95
10237	Bromomethane	74-83-9	N.D.	0.002	0.95
10237	2-Butanone	78-93-3	N.D.	0.004	0.95
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.95
10237	n-Butylbenzene	104-51-8	N.D.	0.0009	0.95
10237	sec-Butylbenzene	135-98-8	N.D.	0.0009	0.95
10237	tert-Butylbenzene	98-06-6	N.D.	0.0009	0.95
10237	Carbon Disulfide	75-15-0	N.D.	0.0009	0.95
10237	Carbon Tetrachloride	56-23-5	N.D.	0.0009	0.95
10237	Chlorobenzene	108-90-7	N.D.	0.0009	0.95
10237	Chloroethane	75-00-3	N.D.	0.002	0.95
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.95
10237	Chloroform	67-66-3	N.D.	0.0009	0.95
10237	Chloromethane	74-87-3	N.D.	0.002	0.95
10237	2-Chlorotoluene	95-49-8	N.D.	0.0009	0.95
10237	4-Chlorotoluene	106-43-4	N.D.	0.0009	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.95
10237	Dibromochloromethane	124-48-1	N.D.	0.0009	0.95
10237	1,2-Dibromoethane	106-93-4	N.D.	0.0009	0.95
10237	Dibromomethane	74-95-3	N.D.	0.0009	0.95
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.0009	0.95
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.0009	0.95
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.0009	0.95
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.95
10237	1,1-Dichloroethane	75-34-3	N.D.	0.0009	0.95
10237	1,2-Dichloroethane	107-06-2	N.D.	0.0009	0.95
10237	1,1-Dichloroethene	75-35-4	N.D.	0.0009	0.95
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.95
10237	1,2-Dichloropropane	78-87-5	N.D.	0.0009	0.95
10237	1,3-Dichloropropane	142-28-9	N.D.	0.0009	0.95
10237	2,2-Dichloropropane	594-20-7	N.D.	0.0009	0.95
10237	1,1-Dichloropropene	563-58-6	N.D.	0.0009	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0009	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0009	0.95
10237	Ethanol	64-17-5	N.D.	0.095	0.95
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.95
10237	Freon 113	76-13-1	N.D.	0.002	0.95
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.95
10237	2-Hexanone	591-78-6	N.D.	0.003	0.95
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.95
10237	Isopropylbenzene	98-82-8	N.D.	0.0009	0.95
10237	p-Isopropyltoluene	99-87-6	N.D.	0.0009	0.95

Sample Description: MW2-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625193
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.95
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.95
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.95
10237	Naphthalene	91-20-3	N.D.	0.0009	0.95
10237	n-Propylbenzene	103-65-1	N.D.	0.0009	0.95
10237	Styrene	100-42-5	N.D.	0.0009	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.0009	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0009	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.95
10237	Toluene	108-88-3	N.D.	0.0009	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.0009	0.95
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.0009	0.95
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.0009	0.95
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.0009	0.95
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.95
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.95
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.0009	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.0009	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.0009	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.95
10237	m+p-Xylene	179601-23-1	N.D.	0.0009	0.95
10237	o-Xylene	95-47-6	N.D.	0.0009	0.95
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	0.004 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.005 J	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.003 J	0.003	1
10724	Pyrene	129-00-0	0.003 J	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.74
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW2-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625193
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:45
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO205

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,700	4.32	1
06946	Barium	7440-39-3	121	0.0314	1
07914	Boron	7440-42-8	6.61	0.800	1
06949	Cadmium	7440-43-9	N.D.	0.157	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	6,390	3.61	1
06951	Chromium	7440-47-3	50.1	0.105	1
06953	Copper	7440-50-8	68.0	0.314	1
01654	Iron	7439-89-6	38,300	15.9	5
06955	Lead	7439-92-1	8.27	0.476	1
01657	Magnesium	7439-95-4	7,720	1.59	1
06958	Manganese	7439-96-5	758	0.0790	1
06960	Molybdenum	7439-98-7	N.D.	0.162	1
06961	Nickel	7440-02-0	34.1	0.143	1
10145	Phosphorus	7723-14-0	96.1	0.305	1
12763	Silicon	7440-21-3	229	1.63	1
06966	Silver	7440-22-4	N.D.	0.181	1
01667	Sodium	7440-23-5	356	15.9	1
12003	Sulfur	7704-34-9	60.9	1.07	1
06969	Tin	7440-31-5	1.64 J	0.410	1
06970	Titanium	7440-32-6	259	0.162	1
06971	Vanadium	7440-62-2	155	0.0867	1
06972	Zinc	7440-66-6	31.7	0.248	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 03:01	Christopher G Torres	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:11	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 16:37	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 02:14	Laura M Krieger	23.74

Sample Description: MW2-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625193
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 09:45

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO205

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:12	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 22:00	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 10:49	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 10:49	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:01	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:33	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH5-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625194
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:00

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Suite 107

Rancho Cordova CA 95670

BH5-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.96
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	Bromobenzene	108-86-1	N.D.	0.001	0.96
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.96
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.96
10237	Bromoform	75-25-2	N.D.	0.001	0.96
10237	Bromomethane	74-83-9	N.D.	0.002	0.96
10237	2-Butanone	78-93-3	N.D.	0.004	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.96
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.96
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.96
10237	Chloroethane	75-00-3	N.D.	0.002	0.96
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.96
10237	Chloroform	67-66-3	N.D.	0.001	0.96
10237	Chloromethane	74-87-3	N.D.	0.002	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.96
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.96
10237	Dibromomethane	74-95-3	N.D.	0.001	0.96
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.96
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.96
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	Freon 113	76-13-1	N.D.	0.002	0.96
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.96
10237	2-Hexanone	591-78-6	N.D.	0.003	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.96

Sample Description: BH5-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625194
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH5-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.96
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.96
10237	Styrene	100-42-5	N.D.	0.001	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.96
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.96
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.96
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.96
10237	o-Xylene	95-47-6	N.D.	0.001	0.96
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.67
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	6.5 J	3.9	1

Sample Description: BH5-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625194
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:00

Conestoga-Rovers & Associates

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Rancho Cordova CA 95670

BH5-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	31,500	4.45	1
06946	Barium	7440-39-3	94.7	0.0324	1
07914	Boron	7440-42-8	6.89	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,800	3.72	1
06951	Chromium	7440-47-3	51.8	0.108	1
06953	Copper	7440-50-8	68.4	0.324	1
01654	Iron	7439-89-6	38,900	16.4	5
06955	Lead	7439-92-1	7.71	0.490	1
01657	Magnesium	7439-95-4	8,090	1.64	1
06958	Manganese	7439-96-5	497	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	32.6	0.147	1
10145	Phosphorus	7723-14-0	84.8	0.314	1
12763	Silicon	7440-21-3	188	1.57	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	376	16.4	1
12003	Sulfur	7704-34-9	66.7	1.10	1
06969	Tin	7440-31-5	1.69 J	0.422	1
06970	Titanium	7440-32-6	294	0.167	1
06971	Vanadium	7440-62-2	150	0.0892	1
06972	Zinc	7440-66-6	32.2	0.255	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 03:23	Christopher G Torres	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:06	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 17:00	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 02:52	Laura M Krieger	25.67

Sample Description: BH5-S-5-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625194
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:00
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BH5-5

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:08	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/15/2014 01:18	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 10:53	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 10:53	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:04	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:36	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH7-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625195
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:05

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH710

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.94
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.94
10237	Benzene	71-43-2	N.D.	0.0005	0.94
10237	Bromobenzene	108-86-1	N.D.	0.0009	0.94
10237	Bromochloromethane	74-97-5	N.D.	0.0009	0.94
10237	Bromodichloromethane	75-27-4	N.D.	0.0009	0.94
10237	Bromoform	75-25-2	N.D.	0.0009	0.94
10237	Bromomethane	74-83-9	N.D.	0.002	0.94
10237	2-Butanone	78-93-3	N.D.	0.004	0.94
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.94
10237	n-Butylbenzene	104-51-8	N.D.	0.0009	0.94
10237	sec-Butylbenzene	135-98-8	N.D.	0.0009	0.94
10237	tert-Butylbenzene	98-06-6	N.D.	0.0009	0.94
10237	Carbon Disulfide	75-15-0	N.D.	0.0009	0.94
10237	Carbon Tetrachloride	56-23-5	N.D.	0.0009	0.94
10237	Chlorobenzene	108-90-7	N.D.	0.0009	0.94
10237	Chloroethane	75-00-3	N.D.	0.002	0.94
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.94
10237	Chloroform	67-66-3	N.D.	0.0009	0.94
10237	Chloromethane	74-87-3	N.D.	0.002	0.94
10237	2-Chlorotoluene	95-49-8	N.D.	0.0009	0.94
10237	4-Chlorotoluene	106-43-4	N.D.	0.0009	0.94
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.94
10237	Dibromochloromethane	124-48-1	N.D.	0.0009	0.94
10237	1,2-Dibromoethane	106-93-4	N.D.	0.0009	0.94
10237	Dibromomethane	74-95-3	N.D.	0.0009	0.94
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.0009	0.94
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.0009	0.94
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.0009	0.94
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.94
10237	1,1-Dichloroethane	75-34-3	N.D.	0.0009	0.94
10237	1,2-Dichloroethane	107-06-2	N.D.	0.0009	0.94
10237	1,1-Dichloroethene	75-35-4	N.D.	0.0009	0.94
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.94
10237	1,2-Dichloropropane	78-87-5	N.D.	0.0009	0.94
10237	1,3-Dichloropropane	142-28-9	N.D.	0.0009	0.94
10237	2,2-Dichloropropane	594-20-7	N.D.	0.0009	0.94
10237	1,1-Dichloropropene	563-58-6	N.D.	0.0009	0.94
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0009	0.94
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0009	0.94
10237	Ethanol	64-17-5	N.D.	0.094	0.94
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.94
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.94
10237	Freon 113	76-13-1	N.D.	0.002	0.94
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.94
10237	2-Hexanone	591-78-6	N.D.	0.003	0.94
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.94
10237	Isopropylbenzene	98-82-8	N.D.	0.0009	0.94
10237	p-Isopropyltoluene	99-87-6	N.D.	0.0009	0.94

Sample Description: BH7-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625195
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:05

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH710

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.94
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.94
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.94
10237	Naphthalene	91-20-3	N.D.	0.0009	0.94
10237	n-Propylbenzene	103-65-1	N.D.	0.0009	0.94
10237	Styrene	100-42-5	N.D.	0.0009	0.94
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.0009	0.94
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0009	0.94
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.94
10237	Toluene	108-88-3	N.D.	0.0009	0.94
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.0009	0.94
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.0009	0.94
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.0009	0.94
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.0009	0.94
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.94
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.94
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.0009	0.94
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.0009	0.94
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.0009	0.94
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.94
10237	m+p-Xylene	179601-23-1	N.D.	0.0009	0.94
10237	o-Xylene	95-47-6	N.D.	0.0009	0.94
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.3
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH7-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625195
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:05
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

BH710

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,500	4.37	1
06946	Barium	7440-39-3	90.0	0.0317	1
07914	Boron	7440-42-8	5.44	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0317	1
01650	Calcium	7440-70-2	3,490	3.64	1
06951	Chromium	7440-47-3	44.4	0.106	1
06953	Copper	7440-50-8	38.9	0.317	1
01654	Iron	7439-89-6	26,200	16.1	5
06955	Lead	7439-92-1	7.66	0.481	1
01657	Magnesium	7439-95-4	4,820	1.61	1
06958	Manganese	7439-96-5	602	0.0798	1
06960	Molybdenum	7439-98-7	0.668 J	0.163	1
06961	Nickel	7440-02-0	32.0	0.144	1
10145	Phosphorus	7723-14-0	74.5	0.308	1
12763	Silicon	7440-21-3	278	1.55	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	330	16.1	1
12003	Sulfur	7704-34-9	27.9 J	1.08	1
06969	Tin	7440-31-5	15.1	0.413	1
06970	Titanium	7440-32-6	578	0.163	1
06971	Vanadium	7440-62-2	107	0.0875	1
06972	Zinc	7440-66-6	34.3	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 03:46	Christopher G Torres	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:01	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 17:23	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 03:30	Laura M Krieger	25.3

Sample Description: BH7-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625195
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Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:05

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Rancho Cordova CA 95670

BH710

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 14:04	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 22:22	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 11:09	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 11:13	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:08	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:40	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: BH7-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625196
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:10

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH715

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH7-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625196
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:10

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH715

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.3
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: BH7-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625196
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:10
 Submitted: 10/04/2014 09:15
 Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

BH715

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,600	4.37	1
06946	Barium	7440-39-3	94.2	0.0317	1
07914	Boron	7440-42-8	5.14	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.159	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,180	3.64	1
06951	Chromium	7440-47-3	53.5	0.106	1
06953	Copper	7440-50-8	61.3	0.317	1
01654	Iron	7439-89-6	31,900	16.1	5
06955	Lead	7439-92-1	8.21	0.481	1
01657	Magnesium	7439-95-4	7,430	1.61	1
06958	Manganese	7439-96-5	568	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	50.0	0.144	1
10145	Phosphorus	7723-14-0	77.2	0.308	1
12763	Silicon	7440-21-3	165	1.55	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	515	16.1	1
12003	Sulfur	7704-34-9	16.3 J	1.08	1
06969	Tin	7440-31-5	2.41 J	0.413	1
06970	Titanium	7440-32-6	533	0.163	1
06971	Vanadium	7440-62-2	133	0.0875	1
06972	Zinc	7440-66-6	37.1	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 04:08	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:15	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:56	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 17:46	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 04:08	Laura M Krieger	25.3

Sample Description: BH7-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625196
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 11:10

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

BH715

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:57	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 22:44	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 11:21	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 11:21	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:11	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:43	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: MW2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625197
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 12:25

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.006	0.92
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.92
10237	Benzene	71-43-2	N.D.	0.0005	0.92
10237	Bromobenzene	108-86-1	N.D.	0.0009	0.92
10237	Bromochloromethane	74-97-5	N.D.	0.0009	0.92
10237	Bromodichloromethane	75-27-4	N.D.	0.0009	0.92
10237	Bromoform	75-25-2	N.D.	0.0009	0.92
10237	Bromomethane	74-83-9	N.D.	0.002	0.92
10237	2-Butanone	78-93-3	N.D.	0.004	0.92
10237	t-Butyl alcohol	75-65-0	N.D.	0.018	0.92
10237	n-Butylbenzene	104-51-8	N.D.	0.0009	0.92
10237	sec-Butylbenzene	135-98-8	N.D.	0.0009	0.92
10237	tert-Butylbenzene	98-06-6	N.D.	0.0009	0.92
10237	Carbon Disulfide	75-15-0	N.D.	0.0009	0.92
10237	Carbon Tetrachloride	56-23-5	N.D.	0.0009	0.92
10237	Chlorobenzene	108-90-7	N.D.	0.0009	0.92
10237	Chloroethane	75-00-3	N.D.	0.0003	0.92
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.92
10237	Chloroform	67-66-3	N.D.	0.0009	0.92
10237	Chloromethane	74-87-3	N.D.	0.002	0.92
10237	2-Chlorotoluene	95-49-8	N.D.	0.0009	0.92
10237	4-Chlorotoluene	106-43-4	N.D.	0.0009	0.92
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.92
10237	Dibromochloromethane	124-48-1	N.D.	0.0009	0.92
10237	1,2-Dibromoethane	106-93-4	N.D.	0.0009	0.92
10237	Dibromomethane	74-95-3	N.D.	0.0009	0.92
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.0009	0.92
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.0009	0.92
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.0009	0.92
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.92
10237	1,1-Dichloroethane	75-34-3	N.D.	0.0009	0.92
10237	1,2-Dichloroethane	107-06-2	N.D.	0.0009	0.92
10237	1,1-Dichloroethene	75-35-4	N.D.	0.0009	0.92
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.92
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.92
10237	1,2-Dichloropropane	78-87-5	N.D.	0.0009	0.92
10237	1,3-Dichloropropane	142-28-9	N.D.	0.0009	0.92
10237	2,2-Dichloropropane	594-20-7	N.D.	0.0009	0.92
10237	1,1-Dichloropropene	563-58-6	N.D.	0.0009	0.92
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0009	0.92
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0009	0.92
10237	Ethanol	64-17-5	N.D.	0.092	0.92
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.92
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.92
10237	Freon 113	76-13-1	N.D.	0.002	0.92
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.92
10237	2-Hexanone	591-78-6	N.D.	0.003	0.92
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.92
10237	Isopropylbenzene	98-82-8	N.D.	0.0009	0.92
10237	p-Isopropyltoluene	99-87-6	N.D.	0.0009	0.92

Sample Description: MW2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625197
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 12:25

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.92
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.92
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.92
10237	Naphthalene	91-20-3	N.D.	0.0009	0.92
10237	n-Propylbenzene	103-65-1	N.D.	0.0009	0.92
10237	Styrene	100-42-5	N.D.	0.0009	0.92
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.0009	0.92
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0009	0.92
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.92
10237	Toluene	108-88-3	N.D.	0.0009	0.92
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.0009	0.92
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.0009	0.92
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.0009	0.92
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.0009	0.92
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.92
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.92
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.0009	0.92
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.0009	0.92
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.0009	0.92
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.92
10237	m+p-Xylene	179601-23-1	N.D.	0.0009	0.92
10237	o-Xylene	95-47-6	N.D.	0.0009	0.92
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.41
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625197
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 12:25
 Submitted: 10/04/2014 09:15
 Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

MO210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	27,800	4.41	1
06946	Barium	7440-39-3	90.0	0.0320	1
07914	Boron	7440-42-8	5.88	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.160	5
	Reporting limits were raised due to interference from the sample matrix.				
01650	Calcium	7440-70-2	4,320	3.68	1
06951	Chromium	7440-47-3	50.8	0.107	1
06953	Copper	7440-50-8	60.9	0.320	1
01654	Iron	7439-89-6	36,500	16.2	5
06955	Lead	7439-92-1	7.99	0.485	1
01657	Magnesium	7439-95-4	7,560	1.62	1
06958	Manganese	7439-96-5	443	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	39.8	0.146	1
10145	Phosphorus	7723-14-0	59.6	0.311	1
12763	Silicon	7440-21-3	153	1.58	1
06966	Silver	7440-22-4	0.185 J	0.184	1
01667	Sodium	7440-23-5	425	16.2	1
12003	Sulfur	7704-34-9	20.1 J	1.09	1
06969	Tin	7440-31-5	2.30 J	0.417	1
06970	Titanium	7440-32-6	412	0.165	1
06971	Vanadium	7440-62-2	135	0.0883	1
06972	Zinc	7440-66-6	35.1	0.252	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 06:00	Christopher G Torres	0.92
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:51	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 18:09	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 04:46	Laura M Krieger	25.41

Sample Description: MW2-S-10-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625197
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 12:25

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO210

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:52	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 23:06	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 11:29	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 11:29	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:22	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:47	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: MW2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625198
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:40
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: MW2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625198
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:40

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.003 J	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.83
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625198
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:40

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO220

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,400	4.50	1
06946	Barium	7440-39-3	99.4	0.0327	1
07914	Boron	7440-42-8	5.69	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.163	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	9,960	3.75	1
06951	Chromium	7440-47-3	41.6	0.109	1
06953	Copper	7440-50-8	84.3	0.327	1
01654	Iron	7439-89-6	40,000	16.5	5
06955	Lead	7439-92-1	8.80	0.495	1
01657	Magnesium	7439-95-4	9,930	1.65	1
06958	Manganese	7439-96-5	869	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	41.1	0.149	1
10145	Phosphorus	7723-14-0	81.4	0.317	1
12763	Silicon	7440-21-3	195	1.55	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	532	16.5	1
12003	Sulfur	7704-34-9	10.6 J	1.11	1
06969	Tin	7440-31-5	3.24 J	0.426	1
06970	Titanium	7440-32-6	469	0.168	1
06971	Vanadium	7440-62-2	179	0.0901	1
06972	Zinc	7440-66-6	39.6	0.257	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 04:30	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:46	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 18:33	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 05:23	Laura M Krieger	23.83

Sample Description: MW2-S-20-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625198
LL Group # 1508602
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Project Name: 373378 Tidewater Oakland

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:47	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 23:28	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 11:38	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 11:38	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:26	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:50	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: MW2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625199
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:00
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.96
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.96
10237	Benzene	71-43-2	N.D.	0.0005	0.96
10237	Bromobenzene	108-86-1	N.D.	0.001	0.96
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.96
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.96
10237	Bromoform	75-25-2	N.D.	0.001	0.96
10237	Bromomethane	74-83-9	N.D.	0.002	0.96
10237	2-Butanone	78-93-3	N.D.	0.004	0.96
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.96
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.96
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.96
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.96
10237	Chloroethane	75-00-3	N.D.	0.002	0.96
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.96
10237	Chloroform	67-66-3	N.D.	0.001	0.96
10237	Chloromethane	74-87-3	N.D.	0.002	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.96
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.96
10237	Dibromomethane	74-95-3	N.D.	0.001	0.96
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.96
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.96
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.96
10237	Ethanol	64-17-5	N.D.	0.096	0.96
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.96
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.96
10237	Freon 113	76-13-1	N.D.	0.002	0.96
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.96
10237	2-Hexanone	591-78-6	N.D.	0.003	0.96
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.96
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.96

Sample Description: MW2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625199
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.96
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.96
10237	Naphthalene	91-20-3	N.D.	0.001	0.96
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.96
10237	Styrene	100-42-5	N.D.	0.001	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.96
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.96
10237	Toluene	108-88-3	N.D.	0.001	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.96
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.96
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.96
10237	Trichloroethene	79-01-6	N.D.	0.001	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.96
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.96
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.96
10237	o-Xylene	95-47-6	N.D.	0.001	0.96
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.56
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	4.0	1

Sample Description: MW2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625199
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:00
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO215

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,700	4.54	1
06946	Barium	7440-39-3	89.1	0.0330	1
07914	Boron	7440-42-8	5.24	0.840	1
06949	Cadmium	7440-43-9	N.D.	0.165	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,110	3.79	1
06951	Chromium	7440-47-3	49.1	0.110	1
06953	Copper	7440-50-8	54.7	0.330	1
01654	Iron	7439-89-6	33,500	16.7	5
06955	Lead	7439-92-1	7.85	0.500	1
01657	Magnesium	7439-95-4	7,130	1.67	1
06958	Manganese	7439-96-5	608	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	51.9	0.150	1
10145	Phosphorus	7723-14-0	78.0	0.320	1
12763	Silicon	7440-21-3	304	1.57	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	490	16.7	1
12003	Sulfur	7704-34-9	18.5 J	1.12	1
06969	Tin	7440-31-5	3.60 J	0.430	1
06970	Titanium	7440-32-6	494	0.170	1
06971	Vanadium	7440-62-2	127	0.0910	1
06972	Zinc	7440-66-6	35.8	0.260	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 04:53	Christopher G Torres	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:40	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 18:56	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14281A16A	10/09/2014 06:01	Laura M Krieger	25.56

Sample Description: MW2-S-15-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625199
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 13:00

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO215

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:41	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/14/2014 23:50	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 11:42	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 11:42	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:30	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 05:54	Tara L Snyder	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klumpp	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Sample Description: MW2-S-25-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625200
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 14:25

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO225

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: MW2-S-25-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625200
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 14:25

Conestoga-Rovers & Associates

Submitted: 10/04/2014 09:15

10969 Trade Center Drive

Reported: 10/17/2014 16:22

Suite 107

Rancho Cordova CA 95670

MO225

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.68
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: MW2-S-25-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625200
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 14:25
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO225

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	32,800	4.37	1
06946	Barium	7440-39-3	76.5	0.0317	1
07914	Boron	7440-42-8	6.51	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.159	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	9,790	3.64	1
06951	Chromium	7440-47-3	37.7	0.106	1
06953	Copper	7440-50-8	96.5	0.317	1
01654	Iron	7439-89-6	42,700	16.1	5
06955	Lead	7439-92-1	N.D.	0.481	1
01657	Magnesium	7439-95-4	12,200	1.61	1
06958	Manganese	7439-96-5	665	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	34.6	0.144	1
10145	Phosphorus	7723-14-0	72.6	0.308	1
12763	Silicon	7440-21-3	290	1.55	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	553	16.1	1
12003	Sulfur	7704-34-9	8.06 J	1.08	1
06969	Tin	7440-31-5	1.66 J	0.413	1
06970	Titanium	7440-32-6	420	0.163	1
06971	Vanadium	7440-62-2	168	0.0875	1
06972	Zinc	7440-66-6	39.7	0.250	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142793AA	10/07/2014 05:15	Christopher G Torres	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201427735799	10/04/2014 18:14	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:36	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14284SLB026	10/15/2014 19:19	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14284SLB026	10/13/2014 04:50	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/14/2014 20:39	Miranda P Tillinghast	24.68

Sample Description: MW2-S-25-141002 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7625200
LL Group # 1508602
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/02/2014 14:25
Submitted: 10/04/2014 09:15
Reported: 10/17/2014 16:22

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

MO225

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201427735799	10/04/2014 13:36	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142830002A	10/15/2014 00:12	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142830002A	10/11/2014 07:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	142805708003	10/10/2014 23:07	Elaine F Stoltzfus	1
06949	Cadmium	SW-846 6010B	1	142805708003	10/09/2014 12:02	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	142805708003	10/09/2014 12:02	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06960	Molybdenum	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
12763	Silicon	SW-846 6010B	1	142825708003	10/10/2014 06:34	Tara L Snyder	1
06966	Silver	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
12003	Sulfur	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	142805708003	10/09/2014 11:58	Joanne M Gates	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142805708003	10/08/2014 07:37	Christopher M Klump	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	2	142825708003	10/09/2014 13:46	James L Mertz	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B142792AA	Sample number(s): 7625175-7625179							
Acetone	N.D.	0.007	mg/kg	110	98	53-141	11	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	93	90	63-130	3	30
Benzene	N.D.	0.0005	mg/kg	100	96	80-120	4	30
Bromobenzene	N.D.	0.001	mg/kg	96	95	78-120	1	30
Bromochloromethane	N.D.	0.001	mg/kg	104	100	80-128	3	30
Bromodichloromethane	N.D.	0.001	mg/kg	98	93	75-120	5	30
Bromoform	N.D.	0.001	mg/kg	93	91	70-126	2	30
Bromomethane	N.D.	0.002	mg/kg	93	88	32-162	6	30
2-Butanone	N.D.	0.004	mg/kg	104	94	62-123	11	30
t-Butyl alcohol	N.D.	0.020	mg/kg	96	95	72-125	1	30
n-Butylbenzene	N.D.	0.001	mg/kg	103	100	72-120	3	30
sec-Butylbenzene	N.D.	0.001	mg/kg	106	102	69-120	4	30
tert-Butylbenzene	N.D.	0.001	mg/kg	99	97	75-120	1	30
Carbon Disulfide	N.D.	0.001	mg/kg	84	78	63-128	6	30
Carbon Tetrachloride	N.D.	0.001	mg/kg	103	95	69-130	7	30
Chlorobenzene	N.D.	0.001	mg/kg	100	101	80-120	1	30
Chloroethane	N.D.	0.002	mg/kg	86	82	17-171	6	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/kg	74	70	64-124	6	30
Chloroform	N.D.	0.001	mg/kg	107	101	80-125	6	30
Chloromethane	N.D.	0.002	mg/kg	89	85	56-120	6	30
2-Chlorotoluene	N.D.	0.001	mg/kg	101	96	78-120	5	30
4-Chlorotoluene	N.D.	0.001	mg/kg	100	98	79-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/kg	103	99	59-122	4	30
Dibromochloromethane	N.D.	0.001	mg/kg	99	99	77-120	0	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	101	102	80-120	0	30
Dibromomethane	N.D.	0.001	mg/kg	98	92	80-120	7	30
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	101	100	80-120	1	30
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	98	95	80-120	4	30
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	99	96	80-120	3	30
Dichlorodifluoromethane	N.D.	0.002	mg/kg	96	89	26-137	7	30
1,1-Dichloroethane	N.D.	0.001	mg/kg	100	94	80-122	6	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	109	102	77-130	7	30
1,1-Dichloroethene	N.D.	0.001	mg/kg	100	90	73-129	10	30
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	101	97	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	103	98	80-129	5	30
1,2-Dichloropropane	N.D.	0.001	mg/kg	96	93	80-120	4	30
1,3-Dichloropropane	N.D.	0.001	mg/kg	100	101	80-120	1	30
2,2-Dichloropropane	N.D.	0.001	mg/kg	98	91	72-123	7	30
1,1-Dichloropropene	N.D.	0.001	mg/kg	104	98	80-126	5	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	95	94	74-120	1	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	99	100	76-120	2	30
Ethanol	N.D.	0.10	mg/kg	77	81	46-146	5	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	94	90	70-122	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethylbenzene	N.D.	0.001	mg/kg	101	100	80-120	0	30
Freon 113	N.D.	0.002	mg/kg	89	82	64-137	8	30
Hexachlorobutadiene	N.D.	0.002	mg/kg	104	98	46-130	7	30
2-Hexanone	N.D.	0.003	mg/kg	104	101	51-120	3	30
di-Isopropyl ether	N.D.	0.001	mg/kg	94	90	77-123	5	30
Isopropylbenzene	N.D.	0.001	mg/kg	104	102	76-120	2	30
p-Isopropyltoluene	N.D.	0.001	mg/kg	103	99	69-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	100	94	76-122	6	30
4-Methyl-2-pentanone	N.D.	0.003	mg/kg	95	87	57-123	9	30
Methylene Chloride	N.D.	0.002	mg/kg	109	104	80-124	5	30
Naphthalene	N.D.	0.001	mg/kg	97	94	64-120	3	30
n-Propylbenzene	N.D.	0.001	mg/kg	105	102	77-120	2	30
Styrene	N.D.	0.001	mg/kg	104	104	76-120	0	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/kg	101	100	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	97	94	71-123	3	30
Tetrachloroethene	N.D.	0.001	mg/kg	98	96	78-120	3	30
Toluene	N.D.	0.001	mg/kg	103	100	80-120	3	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/kg	96	94	64-120	2	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/kg	93	93	68-120	0	30
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	105	98	63-135	7	30
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	101	103	80-120	1	30
Trichloroethene	N.D.	0.001	mg/kg	104	98	80-125	5	30
Trichlorofluoromethane	N.D.	0.002	mg/kg	104	95	58-133	10	30
1,2,3-Trichloropropane	N.D.	0.001	mg/kg	106	99	71-123	7	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/kg	107	103	79-120	4	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/kg	108	104	78-120	3	30
Vinyl Chloride	N.D.	0.001	mg/kg	96	91	59-120	6	30
m+p-Xylene	N.D.	0.001	mg/kg	103	100	80-120	3	30
o-Xylene	N.D.	0.001	mg/kg	100	99	80-120	0	30

Batch number: B142793AA

Sample number(s): 7625180-7625187,7625190-7625191,7625193-7625200

Acetone	N.D.	0.007	mg/kg	95	97	53-141	2	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	90	93	63-130	4	30
Benzene	N.D.	0.0005	mg/kg	100	98	80-120	2	30
Bromobenzene	N.D.	0.001	mg/kg	96	98	78-120	2	30
Bromochloromethane	N.D.	0.001	mg/kg	102	102	80-128	0	30
Bromodichloromethane	N.D.	0.001	mg/kg	93	93	75-120	0	30
Bromoform	N.D.	0.001	mg/kg	86	86	70-126	0	30
Bromomethane	N.D.	0.002	mg/kg	88	89	32-162	0	30
2-Butanone	N.D.	0.004	mg/kg	100	100	62-123	0	30
t-Butyl alcohol	N.D.	0.020	mg/kg	96	99	72-125	3	30
n-Butylbenzene	N.D.	0.001	mg/kg	101	100	72-120	1	30
sec-Butylbenzene	N.D.	0.001	mg/kg	105	102	69-120	3	30
tert-Butylbenzene	N.D.	0.001	mg/kg	99	102	75-120	3	30
Carbon Disulfide	N.D.	0.001	mg/kg	79	79	63-128	0	30
Carbon Tetrachloride	N.D.	0.001	mg/kg	93	93	69-130	0	30
Chlorobenzene	N.D.	0.001	mg/kg	97	98	80-120	1	30
Chloroethane	N.D.	0.002	mg/kg	84	85	17-171	1	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/kg	69	68	64-124	2	30
Chloroform	N.D.	0.001	mg/kg	101	101	80-125	1	30
Chloromethane	N.D.	0.002	mg/kg	88	91	56-120	3	30
2-Chlorotoluene	N.D.	0.001	mg/kg	100	101	78-120	1	30
4-Chlorotoluene	N.D.	0.001	mg/kg	99	103	79-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/kg	96	101	59-122	5	30
Dibromochloromethane	N.D.	0.001	mg/kg	94	96	77-120	1	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	99	100	80-120	1	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibromomethane	N.D.	0.001	mg/kg	94	96	80-120	2	30
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	99	100	80-120	1	30
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	97	97	80-120	0	30
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	96	98	80-120	1	30
Dichlorodifluoromethane	N.D.	0.002	mg/kg	89	89	26-137	0	30
1,1-Dichloroethane	N.D.	0.001	mg/kg	100	95	80-122	4	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	100	99	77-130	1	30
1,1-Dichloroethene	N.D.	0.001	mg/kg	96	93	73-129	3	30
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	99	101	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	103	100	80-129	2	30
1,2-Dichloropropane	N.D.	0.001	mg/kg	92	95	80-120	3	30
1,3-Dichloropropane	N.D.	0.001	mg/kg	98	100	80-120	2	30
2,2-Dichloropropane	N.D.	0.001	mg/kg	90	90	72-123	0	30
1,1-Dichloropropene	N.D.	0.001	mg/kg	98	101	80-126	3	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	93	93	74-120	0	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	93	97	76-120	4	30
Ethanol	N.D.	0.10	mg/kg	84	87	46-146	4	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	91	91	70-122	1	30
Ethylbenzene	N.D.	0.001	mg/kg	99	100	80-120	1	30
Freon 113	N.D.	0.002	mg/kg	80	80	64-137	0	30
Hexachlorobutadiene	N.D.	0.002	mg/kg	95	92	46-130	3	30
2-Hexanone	N.D.	0.003	mg/kg	101	105	51-120	4	30
di-Isopropyl ether	N.D.	0.001	mg/kg	94	97	77-123	3	30
Isopropylbenzene	N.D.	0.001	mg/kg	100	101	76-120	0	30
p-Isopropyltoluene	N.D.	0.001	mg/kg	100	101	69-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	99	99	76-122	0	30
4-Methyl-2-pentanone	N.D.	0.003	mg/kg	90	93	57-123	3	30
Methylene Chloride	N.D.	0.002	mg/kg	107	107	80-124	0	30
Naphthalene	N.D.	0.001	mg/kg	90	91	64-120	2	30
n-Propylbenzene	N.D.	0.001	mg/kg	103	107	77-120	3	30
Styrene	N.D.	0.001	mg/kg	102	102	76-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/kg	94	97	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	102	103	71-123	1	30
Tetrachloroethene	N.D.	0.001	mg/kg	96	94	78-120	3	30
Toluene	N.D.	0.001	mg/kg	102	102	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/kg	89	89	64-120	0	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/kg	89	88	68-120	1	30
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	96	95	63-135	1	30
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	100	101	80-120	0	30
Trichloroethene	N.D.	0.001	mg/kg	99	98	80-125	1	30
Trichlorofluoromethane	N.D.	0.002	mg/kg	94	93	58-133	1	30
1,2,3-Trichloropropane	N.D.	0.001	mg/kg	103	107	71-123	4	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/kg	104	105	79-120	1	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/kg	104	108	78-120	4	30
Vinyl Chloride	N.D.	0.001	mg/kg	97	97	59-120	0	30
m+p-Xylene	N.D.	0.001	mg/kg	102	101	80-120	0	30
o-Xylene	N.D.	0.001	mg/kg	98	98	80-120	1	30

Batch number: Q142792AA

Sample number(s): 7625188,7625192

Acetone	N.D.	0.35	mg/kg	92	92	53-141	1	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	96	97	63-130	0	30
Benzene	N.D.	0.025	mg/kg	99	100	80-120	1	30
Bromobenzene	N.D.	0.050	mg/kg	97	96	78-120	2	30
Bromochloromethane	N.D.	0.050	mg/kg	100	101	80-128	1	30
Bromodichloromethane	N.D.	0.050	mg/kg	89	89	75-120	0	30
Bromoform	N.D.	0.050	mg/kg	85	86	70-126	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Bromomethane	N.D.	0.10	mg/kg	82	84	32-162	1	30
2-Butanone	N.D.	0.20	mg/kg	90	90	62-123	0	30
t-Butyl alcohol	N.D.	1.0	mg/kg	94	94	72-125	0	30
n-Butylbenzene	N.D.	0.050	mg/kg	83	86	72-120	3	30
sec-Butylbenzene	N.D.	0.050	mg/kg	87	88	69-120	1	30
tert-Butylbenzene	N.D.	0.050	mg/kg	90	89	75-120	0	30
Carbon Disulfide	N.D.	0.050	mg/kg	80	79	63-128	1	30
Carbon Tetrachloride	N.D.	0.050	mg/kg	93	94	69-130	1	30
Chlorobenzene	N.D.	0.050	mg/kg	96	96	80-120	0	30
Chloroethane	N.D.	0.10	mg/kg	76	78	17-171	2	30
2-Chloroethyl Vinyl Ether	N.D.	0.10	mg/kg	96	95	64-124	1	30
Chloroform	N.D.	0.050	mg/kg	98	98	80-125	0	30
Chloromethane	N.D.	0.10	mg/kg	94	94	56-120	1	30
2-Chlorotoluene	N.D.	0.050	mg/kg	93	94	78-120	1	30
4-Chlorotoluene	N.D.	0.050	mg/kg	95	93	79-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	0.10	mg/kg	80	79	59-122	1	30
Dibromochloromethane	N.D.	0.050	mg/kg	89	90	77-120	1	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	95	94	80-120	1	30
Dibromomethane	N.D.	0.050	mg/kg	96	95	80-120	2	30
1,2-Dichlorobenzene	N.D.	0.050	mg/kg	91	91	80-120	0	30
1,3-Dichlorobenzene	N.D.	0.050	mg/kg	93	93	80-120	0	30
1,4-Dichlorobenzene	N.D.	0.050	mg/kg	93	93	80-120	0	30
Dichlorodifluoromethane	N.D.	0.10	mg/kg	81	85	26-137	4	30
1,1-Dichloroethane	N.D.	0.050	mg/kg	97	98	80-122	1	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	97	96	77-130	1	30
1,1-Dichloroethene	N.D.	0.050	mg/kg	100	101	73-129	1	30
cis-1,2-Dichloroethene	N.D.	0.050	mg/kg	100	101	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.050	mg/kg	103	103	80-129	0	30
1,2-Dichloropropane	N.D.	0.050	mg/kg	97	97	80-120	0	30
1,3-Dichloropropane	N.D.	0.050	mg/kg	94	94	80-120	1	30
2,2-Dichloropropane	N.D.	0.050	mg/kg	100	98	72-123	1	30
1,1-Dichloropropene	N.D.	0.050	mg/kg	102	101	80-126	1	30
cis-1,3-Dichloropropene	N.D.	0.050	mg/kg	97	95	74-120	2	30
trans-1,3-Dichloropropene	N.D.	0.050	mg/kg	93	95	76-120	2	30
Ethanol	N.D.	5.0	mg/kg	95	101	46-146	7	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	100	98	70-122	2	30
Ethylbenzene	N.D.	0.050	mg/kg	95	95	80-120	0	30
Freon 113	N.D.	0.10	mg/kg	86	88	64-137	2	30
Hexachlorobutadiene	N.D.	0.10	mg/kg	66	68	46-130	4	30
2-Hexanone	N.D.	0.15	mg/kg	93	95	51-120	1	30
di-Isopropyl ether	N.D.	0.050	mg/kg	98	98	77-123	1	30
Isopropylbenzene	N.D.	0.050	mg/kg	93	93	76-120	0	30
p-Isopropyltoluene	N.D.	0.050	mg/kg	86	87	69-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	101	99	76-122	1	30
4-Methyl-2-pentanone	N.D.	0.15	mg/kg	90	90	57-123	0	30
Methylene Chloride	N.D.	0.10	mg/kg	100	99	80-124	1	30
Naphthalene	N.D.	0.050	mg/kg	77	79	64-120	3	30
n-Propylbenzene	N.D.	0.050	mg/kg	91	91	77-120	0	30
Styrene	N.D.	0.050	mg/kg	95	95	76-120	0	30
1,1,1,2-Tetrachloroethane	N.D.	0.050	mg/kg	92	92	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	0.050	mg/kg	91	90	71-123	1	30
Tetrachloroethene	N.D.	0.050	mg/kg	96	97	78-120	2	30
Toluene	N.D.	0.050	mg/kg	96	97	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	0.050	mg/kg	68	72	64-120	6	30
1,2,4-Trichlorobenzene	N.D.	0.050	mg/kg	79	82	68-120	4	30
1,1,1-Trichloroethane	N.D.	0.050	mg/kg	92	91	63-135	1	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,1,2-Trichloroethane	N.D.	0.050	mg/kg	93	96	80-120	3	30
Trichloroethene	N.D.	0.050	mg/kg	99	100	80-125	1	30
Trichlorofluoromethane	N.D.	0.10	mg/kg	87	88	58-133	1	30
1,2,3-Trichloropropane	N.D.	0.050	mg/kg	96	95	71-123	1	30
1,2,4-Trimethylbenzene	N.D.	0.050	mg/kg	93	92	79-120	1	30
1,3,5-Trimethylbenzene	N.D.	0.050	mg/kg	92	92	78-120	0	30
Vinyl Chloride	N.D.	0.050	mg/kg	93	92	59-120	1	30
m+p-Xylene	N.D.	0.050	mg/kg	96	95	80-120	1	30
o-Xylene	N.D.	0.050	mg/kg	95	96	80-120	1	30

Batch number: W142811AA

Sample number(s): 7625189

Acetone	N.D.	6.	ug/l	56		55-129		
t-Amyl methyl ether	N.D.	0.5	ug/l	90		75-120		
Benzene	N.D.	0.5	ug/l	93		78-120		
Bromobenzene	N.D.	1.	ug/l	95		80-120		
Bromochloromethane	N.D.	1.	ug/l	96		80-121		
Bromodichloromethane	N.D.	0.5	ug/l	94		73-120		
Bromoform	N.D.	0.5	ug/l	86		61-120		
Bromomethane	N.D.	0.5	ug/l	87		53-130		
2-Butanone	N.D.	3.	ug/l	94		54-133		
t-Butyl alcohol	N.D.	5.	ug/l	95		75-120		
n-Butylbenzene	N.D.	1.	ug/l	74		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	77		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	87		80-120		
Carbon Disulfide	N.D.	1.	ug/l	67		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	103		74-130		
Chlorobenzene	N.D.	0.5	ug/l	96		80-120		
Chloroethane	N.D.	0.5	ug/l	79		56-120		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	94		62-128		
Chloroform	N.D.	0.5	ug/l	103		80-122		
Chloromethane	N.D.	0.5	ug/l	87		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	90		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	89		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	89		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	95		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	97		80-120		
Dibromomethane	N.D.	0.5	ug/l	95		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	91		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	89		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	91		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	100		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	96		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	115		65-135		
1,1-Dichloroethene	N.D.	0.5	ug/l	90		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	94		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	92		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	95		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	98		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	93		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	100		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	91		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	92		76-120		
Ethanol	N.D.	50.	ug/l	81		58-139		
Ethyl t-butyl ether	N.D.	0.5	ug/l	93		69-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Freon 113	N.D.	2.	ug/l	77		67-127		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Hexachlorobutadiene	N.D.	2.	ug/l	72		51-125		
2-Hexanone	N.D.	3.	ug/l	96		57-127		
di-Isopropyl ether	N.D.	0.5	ug/l	98		61-132		
Isopropylbenzene	N.D.	1.	ug/l	88		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	77		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	95		51-124		
Methylene Chloride	N.D.	2.	ug/l	93		80-120		
Naphthalene	N.D.	1.	ug/l	82		47-126		
n-Propylbenzene	N.D.	1.	ug/l	85		80-120		
Styrene	N.D.	1.	ug/l	87		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	95		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	90		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	89		80-120		
Toluene	N.D.	0.5	ug/l	92		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	83		68-123		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	84		73-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	96		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	95		80-120		
Trichloroethene	N.D.	0.5	ug/l	98		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	105		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	97		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	86		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	84		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	86		63-120		
m+p-Xylene	N.D.	0.5	ug/l	89		80-120		
o-Xylene	N.D.	0.5	ug/l	90		80-120		

Batch number: 14280WAB026

Sample number(s): 7625189

Acenaphthene	N.D.	0.1	ug/l	102	104	80-112	3	30
Acenaphthylene	N.D.	0.1	ug/l	110	116	84-125	5	30
Anthracene	N.D.	0.1	ug/l	105	108	82-116	3	30
Benzo(a)anthracene	N.D.	0.1	ug/l	112	120	81-126	7	30
Benzo(a)pyrene	N.D.	0.1	ug/l	107	109	82-116	2	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	110	115	82-121	4	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	101	104	76-128	3	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	113	116	81-122	3	30
Chrysene	N.D.	0.1	ug/l	115	123*	81-120	6	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	105	107	80-130	2	30
Fluoranthene	N.D.	0.1	ug/l	106	110	82-121	4	30
Fluorene	N.D.	0.1	ug/l	101	105	80-117	3	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	98	100	80-126	3	30
Naphthalene	N.D.	0.1	ug/l	98	102	75-108	4	30
Phenanthrene	N.D.	0.1	ug/l	103	106	81-114	3	30
Pyrene	N.D.	0.1	ug/l	103	109	81-112	5	30

Batch number: 14281SLB026

Sample number(s): 7625175-7625179

Acenaphthene	N.D.	0.003	mg/kg	101		83-111		
Acenaphthylene	N.D.	0.003	mg/kg	113		83-127		
Anthracene	N.D.	0.003	mg/kg	104		82-118		
Benzo(a)anthracene	N.D.	0.003	mg/kg	100		76-119		
Benzo(a)pyrene	N.D.	0.003	mg/kg	103		84-122		
Benzo(b)fluoranthene	N.D.	0.003	mg/kg	99		78-129		
Benzo(g,h,i)perylene	N.D.	0.003	mg/kg	103		77-121		
Benzo(k)fluoranthene	N.D.	0.003	mg/kg	108		79-120		
Chrysene	N.D.	0.003	mg/kg	104		77-116		

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibenz(a,h)anthracene	N.D.	0.003	mg/kg	99		81-123		
Fluoranthene	N.D.	0.003	mg/kg	101		75-118		
Fluorene	N.D.	0.003	mg/kg	104		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	mg/kg	94		76-122		
Naphthalene	N.D.	0.003	mg/kg	95		77-115		
Phenanthrene	N.D.	0.003	mg/kg	101		80-114		
Pyrene	N.D.	0.003	mg/kg	102		81-114		
Batch number: 14284SLB026	Sample number(s): 7625180-7625188,7625190-7625200							
Acenaphthene	N.D.	0.003	mg/kg	103		83-111		
Acenaphthylene	N.D.	0.003	mg/kg	116		83-127		
Anthracene	N.D.	0.003	mg/kg	107		82-118		
Benzo(a)anthracene	N.D.	0.003	mg/kg	105		76-119		
Benzo(a)pyrene	N.D.	0.003	mg/kg	104		84-122		
Benzo(b)fluoranthene	N.D.	0.003	mg/kg	110		78-129		
Benzo(g,h,i)perylene	N.D.	0.003	mg/kg	105		77-121		
Benzo(k)fluoranthene	N.D.	0.003	mg/kg	100		79-120		
Chrysene	N.D.	0.003	mg/kg	109		77-116		
Dibenz(a,h)anthracene	N.D.	0.003	mg/kg	102		81-123		
Fluoranthene	N.D.	0.003	mg/kg	102		75-118		
Fluorene	N.D.	0.003	mg/kg	104		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	mg/kg	99		76-122		
Naphthalene	N.D.	0.003	mg/kg	100		77-115		
Phenanthrene	N.D.	0.003	mg/kg	102		80-114		
Pyrene	N.D.	0.003	mg/kg	106		81-114		
Batch number: 14279A20A	Sample number(s): 7625189							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	110	111	80-139	0	30
Batch number: 14279A31A	Sample number(s): 7625175-7625179,7625186							
TPH-GRO N. CA soil C6-C12	N.D.	1.0	mg/kg	73		73-120		
Batch number: 14281A16A	Sample number(s): 7625180-7625185,7625187,7625191,7625193-7625199							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	98	103	73-120	5	30
Batch number: 14287A16A	Sample number(s): 7625200							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	107	113	73-120	6	30
Batch number: 14288A16A	Sample number(s): 7625188,7625190,7625192							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	115	112	73-120	2	30
Batch number: 142810025A	Sample number(s): 7625175-7625184,7625186							
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	97		81-121		
Batch number: 142830002A	Sample number(s): 7625185,7625187-7625188,7625190-7625200							
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	92		81-121		
Batch number: 142800010A	Sample number(s): 7625189							
TPH-DRO CA C10-C28	N.D.	50.	ug/l	89	87	56-114	3	20
Batch number: 142795708002	Sample number(s): 7625175-7625177							
Aluminum	N.D.	4.54	mg/kg	119		80-120		
Barium	N.D.	0.0330	mg/kg	104		80-120		
Boron	N.D.	0.840	mg/kg	99		80-120		
Cadmium	N.D.	0.0330	mg/kg	105		80-120		
Calcium	11.9	J 3.79	mg/kg	110		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chromium	N.D.	0.110	mg/kg	102		80-120		
Copper	N.D.	0.330	mg/kg	106		80-120		
Iron	N.D.	3.34	mg/kg	105		80-120		
Lead	N.D.	0.500	mg/kg	105		80-120		
Magnesium	N.D.	1.67	mg/kg	103		80-120		
Manganese	N.D.	0.0830	mg/kg	105		80-120		
Molybdenum	N.D.	0.170	mg/kg	105		80-120		
Nickel	N.D.	0.150	mg/kg	108		80-120		
Phosphorus	1.21	J 0.320	mg/kg	107		80-120		
Silver	N.D.	0.190	mg/kg	93		80-120		
Sodium	N.D.	16.7	mg/kg	102		80-120		
Sulfur	N.D.	1.12	mg/kg	105		80-120		
Tin	1.42	J 0.430	mg/kg	104		80-120		
Titanium	N.D.	0.170	mg/kg	105		80-120		
Vanadium	N.D.	0.0910	mg/kg	106		80-120		
Zinc	0.882	J 0.260	mg/kg	108		80-120		

Batch number: 142795708003

Sample number(s): 7625178-7625188,7625190

Aluminum	6.74	J	4.54	mg/kg	107	80-120		
Barium	N.D.		0.0330	mg/kg	101	80-120		
Boron	N.D.		0.840	mg/kg	101	80-120		
Cadmium	N.D.		0.0330	mg/kg	102	80-120		
Calcium	15.3	J	3.79	mg/kg	105	80-120		
Chromium	N.D.		0.110	mg/kg	99	80-120		
Copper	N.D.		0.330	mg/kg	102	80-120		
Iron	N.D.		3.34	mg/kg	103	80-120		
Lead	N.D.		0.500	mg/kg	103	80-120		
Magnesium	N.D.		1.67	mg/kg	101	80-120		
Manganese	N.D.		0.0830	mg/kg	103	80-120		
Molybdenum	N.D.		0.170	mg/kg	103	80-120		
Nickel	N.D.		0.150	mg/kg	104	80-120		
Phosphorus	1.44	J	0.320	mg/kg	104	80-120		
Silver	N.D.		0.190	mg/kg	99	80-120		
Sodium	N.D.		16.7	mg/kg	102	80-120		
Sulfur	N.D.		1.12	mg/kg	102	80-120		
Tin	1.38	J	0.430	mg/kg	102	80-120		
Titanium	N.D.		0.170	mg/kg	102	80-120		
Vanadium	N.D.		0.0910	mg/kg	104	80-120		
Zinc	1.23	J	0.260	mg/kg	104	80-120		

Batch number: 142801848002

Sample number(s): 7625189

Aluminum	N.D.		67.4	ug/l	104	90-112		
Barium	N.D.		0.33	ug/l	101	90-110		
Boron	N.D.		4.6	ug/l	100	90-110		
Cadmium	N.D.		0.33	ug/l	102	90-112		
Calcium	154	J	33.4	ug/l	104	90-112		
Chromium	N.D.		1.3	ug/l	102	90-110		
Copper	N.D.		2.8	ug/l	101	90-112		
Iron	N.D.		33.4	ug/l	107	90-112		
Lead	N.D.		4.7	ug/l	104	88-116		
Magnesium	50.5	J	16.7	ug/l	105	89-110		
Manganese	1.9	J	0.83	ug/l	102	90-110		
Molybdenum	N.D.		1.7	ug/l	106	90-110		
Nickel	N.D.		1.6	ug/l	104	90-117		
Phosphorus	N.D.		5.0	ug/l	102	90-110		
Silicon	N.D.		19.5	ug/l	108	80-120		

*- Outside of specification

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Silver	N.D.	1.8	ug/l	113		80-120		
Sodium	512 J	167.	ug/l	106		87-114		
Sulfur	38.8 J	19.2	ug/l	101		90-112		
Tin	N.D.	2.4	ug/l	104		90-110		
Titanium	N.D.	1.7	ug/l	105		90-113		
Vanadium	N.D.	1.9	ug/l	106		90-110		
Zinc	4.9 J	2.0	ug/l	101		90-110		

Batch number: 142805708003	Sample number(s): 7625191-7625200
Aluminum	5.82 J 4.54 mg/kg 105 80-120
Barium	N.D. 0.0330 mg/kg 99 80-120
Boron	1.03 J 0.840 mg/kg 99 80-120
Cadmium	N.D. 0.0330 mg/kg 101 80-120
Calcium	22.2 3.79 mg/kg 109 80-120
Chromium	N.D. 0.110 mg/kg 99 80-120
Copper	N.D. 0.330 mg/kg 101 80-120
Iron	N.D. 3.34 mg/kg 106 80-120
Lead	N.D. 0.500 mg/kg 104 80-120
Magnesium	2.04 J 1.67 mg/kg 107 80-120
Manganese	N.D. 0.0830 mg/kg 101 80-120
Molybdenum	N.D. 0.170 mg/kg 103 80-120
Nickel	N.D. 0.150 mg/kg 102 80-120
Phosphorus	1.18 J 0.320 mg/kg 103 80-120
Silver	N.D. 0.190 mg/kg 112 80-120
Sodium	N.D. 16.7 mg/kg 108 80-120
Sulfur	N.D. 1.12 mg/kg 108 80-120
Tin	1.37 J 0.430 mg/kg 103 80-120
Titanium	N.D. 0.170 mg/kg 101 80-120
Vanadium	N.D. 0.0910 mg/kg 103 80-120
Zinc	1.08 J 0.260 mg/kg 103 80-120

Batch number: 142825708002	Sample number(s): 7625178-7625188, 7625190
Silicon	N.D. 1.63 mg/kg 97 80-120

Batch number: 142825708003	Sample number(s): 7625175-7625177, 7625191-7625200
Silicon	2.26 J 1.63 mg/kg 103 80-120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: W142811AA	Sample number(s): 7625189 UNSPK: P628094								
Acetone	71	72	35-144	1	30				
t-Amyl methyl ether	93	93	65-117	1	30				
Benzene	103	104	72-134	0	30				
Bromobenzene	100	100	82-115	0	30				
Bromochloromethane	104	101	76-134	3	30				
Bromodichloromethane	102	104	73-125	1	30				
Bromoform	88	90	48-118	3	30				
Bromomethane	98	98	47-129	0	30				

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Butanone	94	93	44-135	2	30			
t-Butyl alcohol	101	99	67-119	2	30			
n-Butylbenzene	83	84	74-134	1	30			
sec-Butylbenzene	87	88	74-137	0	30			
tert-Butylbenzene	94	92	81-121	2	30			
Carbon Disulfide	79	78	53-149	1	30			
Carbon Tetrachloride	124	123	75-148	1	30			
Chlorobenzene	104	103	87-124	1	30			
Chloroethane	93	92	55-130	2	30			
2-Chloroethyl Vinyl Ether	0*	0*	10-151	0	30			
Chloroform	115	114	81-134	1	30			
Chloromethane	98	98	61-125	0	30			
2-Chlorotoluene	100	99	82-118	1	30			
4-Chlorotoluene	97	98	84-122	1	30			
1,2-Dibromo-3-chloropropane	88	87	50-123	1	30			
Dibromochloromethane	99	100	74-116	0	30			
1,2-Dibromoethane	102	100	77-116	2	30			
Dibromomethane	101	102	83-119	1	30			
1,2-Dichlorobenzene	96	97	84-119	1	30			
1,3-Dichlorobenzene	94	95	86-121	0	30			
1,4-Dichlorobenzene	97	98	85-121	2	30			
Dichlorodifluoromethane	137	135	58-156	1	30			
1,1-Dichloroethane	107	107	84-129	0	30			
1,2-Dichloroethane	123	122	63-142	1	30			
1,1-Dichloroethene	106	102	79-137	3	30			
cis-1,2-Dichloroethene	43 (2)	74 (2)	80-141	2	30			
trans-1,2-Dichloroethene	100	100	86-131	0	30			
1,2-Dichloropropane	103	103	83-124	1	30			
1,3-Dichloropropane	103	101	81-120	2	30			
2,2-Dichloropropane	106	106	69-135	0	30			
1,1-Dichloropropene	119	117	86-137	1	30			
cis-1,3-Dichloropropene	95	95	70-116	1	30			
trans-1,3-Dichloropropene	97	98	74-119	1	30			
Ethanol	72	64	53-146	11	30			
Ethyl t-butyl ether	93	95	74-122	2	30			
Ethylbenzene	102	101	71-134	0	30			
Freon 113	102	100	89-148	2	30			
Hexachlorobutadiene	85	92	56-134	7	30			
2-Hexanone	100	99	38-131	1	30			
di-Isopropyl ether	103	104	70-129	1	30			
Isopropylbenzene	99	99	75-128	0	30			
p-Isopropyltoluene	85	86	76-123	1	30			
Methyl Tertiary Butyl Ether	97	96	72-126	1	30			
4-Methyl-2-pentanone	99	99	45-128	0	30			
Methylene Chloride	99	98	78-133	1	30			
Naphthalene	84	85	52-125	2	30			
n-Propylbenzene	94	96	74-134	1	30			
Styrene	95	94	78-125	1	30			
1,1,1,2-Tetrachloroethane	107	104	80-123	3	30			
1,1,2,2-Tetrachloroethane	89	89	72-128	0	30			
Tetrachloroethene	104	103	80-128	1	30			
Toluene	103	101	80-125	2	30			

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	86	87	62-133	2	30				
1,2,4-Trichlorobenzene	87	88	56-137	1	30				
1,1,1-Trichloroethane	112	113	69-140	1	30				
1,1,2-Trichloroethane	97	98	71-141	1	30				
Trichloroethene	109	104	88-133	2	30				
Trichlorofluoromethane	137	133	63-163	3	30				
1,2,3-Trichloropropane	101	101	76-118	0	30				
1,2,4-Trimethylbenzene	92	94	72-130	2	30				
1,3,5-Trimethylbenzene	92	93	65-132	1	30				
Vinyl Chloride	102	102	66-133	0	30				
m+p-Xylene	101	100	79-125	1	30				
o-Xylene	99	98	79-125	0	30				

Batch number: 14281SLB026 Sample number(s): 7625175-7625179 UNSPK: P625150

Acenaphthene	98	96	55-132	1	30				
Acenaphthylene	106	108	53-143	1	30				
Anthracene	100	100	42-147	1	30				
Benzo(a)anthracene	97	96	32-150	0	30				
Benzo(a)pyrene	97	99	36-151	2	30				
Benzo(b)fluoranthene	95	98	29-150	3	30				
Benzo(g,h,i)perylene	97	98	41-147	1	30				
Benzo(k)fluoranthene	103	104	35-146	1	30				
Chrysene	100	103	28-146	3	30				
Dibenz(a,h)anthracene	94	95	54-142	1	30				
Fluoranthene	98	97	41-135	1	30				
Fluorene	99	97	55-128	2	30				
Indeno(1,2,3-cd)pyrene	89	93	44-147	4	30				
Naphthalene	94	94	44-142	1	30				
Phenanthrene	98	98	42-141	0	30				
Pyrene	98	101	37-140	2	30				

Batch number: 14284SLB026 Sample number(s): 7625180-7625188,7625190-7625200 UNSPK: 7625188

Acenaphthene	89	94	55-132	6	30				
Acenaphthylene	100	105	53-143	5	30				
Anthracene	91	97	42-147	7	30				
Benzo(a)anthracene	83	89	32-150	7	30				
Benzo(a)pyrene	86	94	36-151	8	30				
Benzo(b)fluoranthene	88	98	29-150	11	30				
Benzo(g,h,i)perylene	84	98	41-147	16	30				
Benzo(k)fluoranthene	87	98	35-146	12	30				
Chrysene	87	91	28-146	5	30				
Dibenz(a,h)anthracene	82	93	54-142	13	30				
Fluoranthene	87	93	41-135	7	30				
Fluorene	88	96	55-128	8	30				
Indeno(1,2,3-cd)pyrene	80	90	44-147	12	30				
Naphthalene	93	97	44-142	4	30				
Phenanthrene	89	95	42-141	7	30				
Pyrene	87	95	37-140	9	30				

Batch number: 14279A31A Sample number(s): 7625175-7625179,7625186 UNSPK: 7625175

TPH-GRO N. CA soil C6-C12	84	83	39-118	13	30				
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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	BKG MAX	DUP Conc	DUP RPD	DUP RPD	Dup RPD Max
Batch number: 142810025A	Sample number(s): 7625175-7625184,7625186 UNSPK: P625150								
TPH-DRO soil C10-C28 microwave	104	99	35-129	5	20				
Batch number: 142830002A	Sample number(s): 7625185,7625187-7625188,7625190-7625200 UNSPK: P627840 BKG: P627840								
TPH-DRO soil C10-C28 microwave	-514 (2)		35-129			3,200	2,900	8	20
Batch number: 142795708002	Sample number(s): 7625175-7625177 UNSPK: P623141 BKG: P623141								
Aluminum	8605 (2)	9660 (2)	75-125	9	20	5,740	6,900	18	20
Barium	96	107	75-125	9	20	39.5	32.1	21*	20
Boron	92	97	84-110	5	20	N.D.	1.37 J	200* (1)	20
Cadmium	94	96	75-120	2	20	N.D.	N.D.	0 (1)	20
Calcium	-473 (2)	107 (2)	75-125	124*	20	2,610	7,660	98*	20
Chromium	120	136*	75-125	8	20	16.7	22.6	30*	20
Copper	71*	153*	75-125	37*	20	26.8	38.2	35*	20
Iron	-3320 (2)	-11524 (2)	75-125	27*	20	37,300	31,700	16	20
Lead	57*	211*	75-125	66*	20	15.2	27.4	57*	20
Magnesium	-86 (2)	820 (2)	75-125	109*	20	932	1,560	50*	20
Manganese	-238 (2)	-133 (2)	75-125	36*	20	239	314	27*	20
Molybdenum	94	93	82-110	1	20	0.276 J	0.459 J	50* (1)	20
Nickel	99	113	75-125	11	20	14.0	18.9	30*	20
Phosphorus	72*	150*	75-125	33*	20	124	145	16	20
Silver	83	93	75-125	12	20	N.D.	N.D.	0 (1)	20
Sodium	97	136*	75-125	27*	20	283	332	16 (1)	20
Sulfur	-636 (2)	-626 (2)	80-120	2	20	1,090	805	30*	20
Tin	94	91	75-110	3	20	2.00 J	2.40 J	18 (1)	20
Titanium	99	114	75-125	8	20	78.5	120	42*	20
Vanadium	113	128*	75-125	10	20	20.0	23.5	16	20
Zinc	87	178*	75-125	34*	20	65.4	72.1	10	20
Batch number: 142795708003	Sample number(s): 7625178-7625188,7625190 UNSPK: P625150 BKG: P625150								
Aluminum	2552 (2)	5071 (2)	75-125	15	20	26,700	25,500	5	20
Barium	103	118	75-125	10	20	95.2	84.4	12	20
Boron	98	104	84-110	5	20	7.29	7.35	1 (1)	20
Cadmium	89	90	75-120	1	20	N.D.	N.D.	0 (1)	20
Calcium	320 (2)	1515 (2)	75-125	45*	20	6,800	6,420	6	20
Chromium	115	133*	75-125	5	20	47.6	44.9	6	20
Copper	99	123	75-125	6	20	76.9	71.0	8	20
Iron	4376 (2)	2313 (2)	75-125	5	20	38,700	35,100	10	20
Lead	102	104	75-125	1	20	9.14	8.84	3	20
Magnesium	37 (2)	280 (2)	75-125	5	20	9,090	8,640	5	20
Manganese	-5 (2)	443 (2)	75-125	26*	20	754	686	9	20
Molybdenum	95	98	82-110	2	20	N.D.	N.D.	0 (1)	20

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD	
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	Max	
Nickel	101	109	75-125	4	20	47.9	47.6	1	
Phosphorus	111	115	75-125	2	20	90.4	99.7	10	
Silver	104	121	75-125	10	20	2.91	3.09	6	
Sodium	101	107	75-125	4	20	412	385	7 (1)	
Sulfur	101	106	80-120	5	20	11.0	9.35	16 (1)	
Tin	94	95	75-110	1	20	1.92	1.72	11 (1)	
Titanium	283*	407*	75-125	17	20	385	451	16	
Vanadium	140*	176*	75-125	7	20	161	161	1	
Zinc	94	103	75-125	5	20	49.8	44.7	11	
Batch number: 142801848002 Sample number(s): 7625189 UNSPK: P624054 BKG: P624054									
Aluminum	104	106	75-125	2	20	N.D.	N.D.	0 (1)	
Barium	105	107	78-125	2	20	83.9	82.1	2	
Boron	98	101	82-117	3	20	181	173	4 (1)	
Cadmium	98	99	75-122	1	20	0.45	0.43	5 (1)	
Calcium	125 (2)	198 (2)	75-125	1	20	288,000	284,000	2	
Chromium	96	97	76-120	2	20	2.0	2.3	18 (1)	
Copper	102	104	86-122	1	20	N.D.	N.D.	0 (1)	
Iron	102	107	75-125	5	20	N.D.	N.D.	0 (1)	
Lead	101	104	75-125	3	20	N.D.	N.D.	0 (1)	
Magnesium	124 (2)	200 (2)	75-125	1	20	119,000	117,000	2	
Manganese	97	101	75-125	4	20	10.5	9.8	7 (1)	
Molybdenum	106	107	89-117	1	20	5.3	N.D.	200* (1)	
Nickel	99	100	79-123	1	20	2.2	2.2	0 (1)	
Phosphorus	-1854 (2)	-1852 (2)	90-120	2	20	19,700	19,500	1	
Silicon	109 (2)	114 (2)	83-123	0	20	15,200	14,900	2	
Silver	113	114	75-125	1	20	N.D.	N.D.	0 (1)	
Sodium	75 (2)	89 (2)	76-125	0	20	381,000	371,000	2	
Sulfur	131 (2)	197 (2)	84-125	1	20	52,300	51,200	2	
Tin	104	104	81-116	1	20	N.D.	N.D.	0 (1)	
Titanium	102	103	90-115	1	20	3.6	3.5	3 (1)	
Vanadium	103	106	90-123	2	20	4.3	4.1	5 (1)	
Zinc	99	101	80-125	2	20	N.D.	N.D.	0 (1)	
Batch number: 142805708003 Sample number(s): 7625191-7625200 UNSPK: P625573 BKG: P625573									
Aluminum	8918 (2)	3917 (2)	75-125	45*	20	7,840	7,840	0	
Barium	126*	106	75-125	10	20	65.5	70.0	7	
Boron	97	99	84-110	7	20	1.06	0.893	17 (1)	
Cadmium	99	99	75-120	6	20	N.D.	N.D.	0 (1)	
Calcium	157*	73*	75-125	31*	20	536	530	1	
Chromium	168*	123	75-125	18	20	13.0	13.5	4	
Copper	122	99	75-125	12	20	7.83	9.05	14	
Iron	2811 (2)	839 (2)	75-125	30*	20	4,280	6,760	45*	
Lead	117	102	75-125	7	20	4.60	5.64	20 (1)	
Magnesium	501 (2)	91 (2)	75-125	49*	20	1,010	939	7	
Manganese	231*	69*	75-125	50*	20	77.7	91.0	16	
Molybdenum	101	100	82-110	5	20	0.613	0.428	36* (1)	
Nickel	109	100	75-125	3	20	5.81	5.52	5	
Phosphorus	132*	113	75-125	7	20	53.5	122	78*	

*- Outside of specification

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Silver	114	112	75-125	3	20	N.D.	N.D.	0 (1)	20
Sodium	131*	100	75-125	16	20	441	431	2 (1)	20
Sulfur	113	107	80-120	0	20	7.30	12.8	55* (1)	20
Tin	100	100	75-110	5	20	1.47	1.38	6 (1)	20
Titanium	141*	122	75-125	6	20	81.5	72.9	11	20
Vanadium	147*	134*	75-125	3	20	36.8	34.6	6	20
Zinc	137*	90	75-125	23*	20	32.8	32.3	1	20

Batch number: 142825708002 Sample number(s): 7625178-7625188,7625190 UNSPK: P625154 BKG: P625154
Silicon 100 108 75-125 2 20 205 285 33* 20

Batch number: 142825708003 Sample number(s): 7625175-7625177,7625191-7625200 UNSPK: 7625177 BKG: 7625177
Silicon 21* 27* 75-125 2 20 210 247 16 20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Full List + Sep Xylenes
Batch number: B142792AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7625175	105	102	101	109
7625176	102	102	110	114
7625177	103	109	105	110
7625178	108	110	114	101
7625179	105	106	105	98
Blank	108	108	105	103
LCS	109	108	108	109
LCSD	106	102	112	114
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Full List + Sep Xylenes
Batch number: B142793AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7625180	106	113	104	105
7625181	101	100	107	99
7625182	106	105	111	94
7625183	105	102	106	99
7625184	106	105	108	98
7625185	104	103	115	109
7625186	106	104	109	98
7625187	106	101	109	97
7625190	107	108	106	104
7625191	113	115	102	100
7625193	107	105	108	96
7625194	106	109	108	98
7625195	110	107	105	97
7625196	111	107	108	100

*- Outside of specification

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Surrogate Quality Control

7625197	108	112	103	105
7625198	109	104	106	98
7625199	106	105	107	99
7625200	109	105	105	98
Blank	103	105	103	102
LCS	107	107	110	110
LCSD	104	107	110	105
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Full List + Sep Xylenes
Batch number: Q142792AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7625188	81	85	83	84
7625192	82	84	86	83
Blank	105	109	106	105
LCS	95	100	95	94
LCSD	96	96	94	92
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Full List w/ Sep. Xylenes
Batch number: W142811AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7625189	102	101	97	94
Blank	103	99	97	94
LCS	103	101	99	97
MS	106	101	99	98
MSD	104	102	100	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs 8270C Water
Batch number: 14280WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7625189	99	101	99
Blank	102	103	104
LCS	96	95	93
LCSD	100	99	86
Limits:	60-123	67-116	40-147

Analysis Name: PAH's 8270C Soil
Batch number: 14281SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7625175	89	95	108
7625176	87	95	108
7625177	72	95	103
7625178	80	95	100
7625179	86	90	102
Blank	90	95	112
LCS	93	99	109
MS	89	94	104
MSD	91	95	104
Limits:	54-123	63-124	61-142

Analysis Name: PAH's 8270C Soil
Batch number: 14284SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
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*- Outside of specification

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Surrogate Quality Control

7625180	87	93	99
7625181	85	90	99
7625182	85	90	95
7625183	90	97	106
7625184	91	97	104
7625185	85	91	94
7625186	77	81	88
7625187	67	72	78
7625188	81	95	103
7625190	89	99	109
7625191	88	93	103
7625192	64	73	72
7625193	82	88	91
7625194	85	95	106
7625195	80	87	86
7625196	86	91	101
7625197	76	80	84
7625198	82	87	95
7625199	87	91	99
7625200	73	78	80
Blank	79	81	95
LCS	97	102	112
MS	75	90	91
MSD	84	92	99
Limits:	54-123	63-124	61-142

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14279A20A
Trifluorotoluene-F

7625189	84
Blank	90
LCS	91
LCS	89
Limits:	63-135

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14279A31A
Trifluorotoluene-F

7625175	73
7625176	69
7625177	69
7625178	68
7625179	72
7625186	77
Blank	100
LCS	79
MS	68
MSD	68
Limits:	50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14281A16A
Trifluorotoluene-F

7625180	88
7625181	85
7625182	88

*- Outside of specification

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Surrogate Quality Control

7625183	88
7625184	80
7625185	88
7625187	90
7625191	88
7625193	83
7625194	88
7625195	89
7625196	88
7625197	91
7625198	85
7625199	87
Blank	101
LCS	96
LCSD	101

Limits: 50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14287A16A
Trifluorotoluene-F

7625200	78
Blank	95
LCS	101
LCSD	92

Limits: 50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14288A16A
Trifluorotoluene-F

7625188	88
7625190	87
7625192	80
Blank	94
LCS	103
LCSD	100

Limits: 50-142

Analysis Name: TPH-DRO CA C10-C28
Batch number: 142800010A
Orthoterphenyl

7625189	83
Blank	87
LCS	103
LCSD	102

Limits: 58-137

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142810025A
Orthoterphenyl

7625175	96
7625176	94
7625177	94
7625178	86
7625179	88
7625180	92

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/17/14 at 04:22 PM

Group Number: 1508602

Surrogate Quality Control

7625181	96
7625182	97
7625183	91
7625184	93
7625186	93
Blank	101
LCS	99
MS	100
MSD	99

Limits: 54-145

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142830002A

Orthoterphenyl

7625185	71
7625187	77
7625188	78
7625190	82
7625191	79
7625192	75
7625193	86
7625194	87
7625195	77
7625196	81
7625197	80
7625198	80
7625199	76
7625200	73
Blank	96
DUP	139
LCS	97
MS	179*

Limits: 54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 13534

For Lancaster Laboratories use only
 Group # 1508602 Sample # 7625175-200
 Instructions on reverse side correspond with circled numbers.

108214-04 2012

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks							
Facility # <u>Chevron # 373378</u> WBS Site Address <u>3000 MacArthur Blvd Oakland CA</u> Chevron PM <u>Jillian Holloway</u> Lead Consultant Consultant/Office <u>CRA Rancho Cordova</u> Consultant Project Mgr. <u>David Herzog</u> <u>dherzog@craworld.com</u> Consultant Phone # <u>916 889 8902</u> Sampler _____				Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>				Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH 8015 MOD DRO Silica Gel Cleanup 8260 Full Scan Oxygenates Total Lead Method _____ Dissolved Lead Method _____ <u>PAHs by 8270</u> <u>Metals Title 22 by 6010</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits							
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	8021	8260	TPH GRO	8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	6 Remarks		
Date	Time	Date	Time																						
<u>BH1-10'</u>	<u>10/1/14</u>	<u>1000</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH1-15'</u>		<u>1015</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH1-20'</u>		<u>1030</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH7-5'</u>		<u>1200</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH1-25'</u>		<u>1230</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH1-30'</u>		<u>1245</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH1-35'</u>		<u>130</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>MW1-5'</u>		<u>200</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>MW1-10'</u>		<u>320</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>MW1-15'</u>		<u>345</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>MW1-20'</u>		<u>430</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH6-5'</u>	<u>9/30/14</u>	<u>345</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>BH4-5'</u>	<u>10/1/14</u>	<u>500</u>			<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by <u>[Signature]</u> Date <u>10-2-14</u> Time <u>1500</u>				Received by <u>[Signature]</u> Date <u>10/2/14</u> Time <u>1500</u>				9													
				Relinquished by <u>[Signature]</u> Date <u>10/2/14</u> Time <u>1630</u>				Received by <u>[Signature]</u> Date _____ Time _____																	
				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____				Received by <u>[Signature]</u> Date <u>10-4-14</u> Time <u>9:15</u>																	
8 Data Package Options (please circle if required) Type I - Full Type VI (Raw Data)				Temperature Upon Receipt <u>54-25</u> °C				Custody Seals Intact? <u>Yes</u> No																	

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 13534

For Lancaster Laboratories use only
Group # 1508602 Sample # 7025175-200

Instructions on reverse side correspond with circled numbers.

100214-04 1058 500ml

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks							
Facility # <u>WBS</u> Site Address <u>Chevron # 373378 Phillips 66 # 5677</u> 7600 MacArthur Blvd Oakland Chevron PM <u>Jillian Holloway</u> Lead Consultant Consultant/Office <u>CRA Rancho Cordova</u> Consultant Project Mgr. <u>David Herzog</u> dherzog@croworld thebeite@croworld Consultant Phone # <u>916 889 8902</u> Sampler _____				<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil				Total Number of Containers _____ BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH 8015 MOD DRO _____ Silica Gel Cleanup _____ 8260 Full Scan _____ Oxygenates _____ Total Lead _____ Method _____ Dissolved Lead _____ Method _____ <u>PAHs by 8270</u> <u>Metals Title 22 by 6010</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits							
2 Sample Identification			3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260	TPH GRO 8015	8260	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Method	Dissolved Lead	Method	PAHs by 8270	Metals Title 22 by 6010	
Date	Time	Grab	Composite																						
<u>MW-25'</u>	<u>10/1/14</u>	<u>515</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-1</u>	<u>10/1/14</u>	<u>530</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>11</u>	<u>13</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-2-10</u>	<u>10/2/14</u>	<u>930</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-2-15</u>		<u>940</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-2-20</u>		<u>950</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-2-5</u>		<u>945</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-5-5</u>		<u>1100</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-7-10</u>		<u>1105</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH-7-15</u>		<u>1110</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-2-10</u>		<u>1225</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-2-20</u>		<u>1340</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-2-15</u>		<u>1300</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-2-25</u>		<u>1425</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour				Relinquished by <u>[Signature]</u> Date <u>10-2-14</u> Time <u>1500</u>				Received by <u>[Signature]</u> Date <u>10/2/14</u> Time <u>1500</u>				9													
				Relinquished by <u>[Signature]</u> Date <u>6/20 OCT 14</u> Time <u>1634</u>				Received by <u>FEDEX</u> Date _____ Time _____																	
				Relinquished by Commercial Carrier: UPS _____ FedEx <u>X</u> Other _____				Received by <u>[Signature]</u> Date <u>10-4-14</u> Time <u>915</u>																	
8 Data Package Options (please circle if required) Type I - Full _____ Type VI (Raw Data) _____				Temperature Upon Receipt <u>0.4-2.5 °C</u>				Custody Seals Intact? <u>Yes</u> No																	

6# 150 8002

Natalie Luciano

From: Smolko, Darrell <dsmolko@croworld.com>
Sent: Friday, October 03, 2014 1:06 PM
To: Natalie Luciano; Heberle, Laura
Cc: Summersett, Benjamin R.
Subject: RE: TW Oakland site - request for sampling containers and shipping supplies

Natalie

This was my mistake. Yes, wear metals by 6010 is the correct analysis.

Thank you for confirming
Darrell

----- Original message -----

From: Natalie Luciano
Date: 10/03/2014 8:45 AM (GMT-08:00)
To: "Heberle, Laura"
Cc: "Smolko, Darrell" ,"Summersett, Benjamin R."
Subject: RE: TW Oakland site - request for sampling containers and shipping supplies

Hi Laura,

We got 4x soil samples on Wednesday (BH1, BH2, BH3, and MW3 each at 5'). The COC lists Title 22 metals, which I understand as CAM17. Can you confirm that this should actually be the metals as listed below under "Wear metals"? If any other COCs say Title 22 (and are not waste samples), can I proceed with the "Wear metals" as listed below?

Thank you,
Natalie Luciano
Senior Specialist, Environmental Client Services
Phone: +1 717-556-7258

Note that my email address has changed. It is now natalieluciano@eurofinsus.com. Please update my contact information.

From: Heberle, Laura [<mailto:lheberle@croworld.com>]
Sent: Tuesday, September 23, 2014 12:39 PM
To: Natalie Luciano
Cc: Smolko, Darrell; Summersett, Benjamin R.
Subject: TW Oakland site - request for sampling containers and shipping supplies

Hi Natalie,

Would you please provide sampling containers and shipping supplies for the following analyses (10 water samples):

- Total petroleum hydrocarbons as diesel and gasoline by EPA Method 8015

G# 150 8002

- Total oil and grease by Method 1664A (HEM SGT) – former hydraulic hoist area only, proposed borings BH3 and MW3
- Volatile organic compounds including fuel oxygenates by EPA Method 8260
- Polynuclear aromatic hydrocarbons including naphthalene by EPA Method 8270
- Wear metals (aluminum, barium, boron, cadmium, calcium, chromium, copper, iron, lead, magnesium, manganese, molybdenum, nickel, phosphorus, silicon, silver, sodium, sulphur, tin, titanium, vanadium, and zinc) by EPA Method 6010

We will also be submitting one groundwater sample for waste profiling and analyzing for the following:

• (8015) Total TPH quantified as follows, with the same contingent analysis (ONLY IF the following initial total results are observed):

1. TPHd > 10,000 mg/L (again only if dispensed at the site, if not, disregard)
2. TPHg > 5000 mg/L
3. TPHmo > 10,000 mg/L (due to the waste oil UST)

- (8260) VOC full scan (including BTEX)
- (8081/8082) PCBs (again, because of the waste oil UST)
- (6010/6020) Total CAM-17 metals
- (1010) Flash point (liquids only if free product is observed)
- pH

We will also be submitting approximately 70 soil samples so would you please send two extra ice chests and shipping supplies for the soil samples.

Ship the samples to Darrell Smolko at CRA's Concord office (let me know if you need the address). Field work starts next week so we will need the supplies by Friday at the latest. Will this be a problem? You will receive the samples the week of October 29th.

Let me know if you have any questions or if you require additional information.


Thanks!

Laura

Laura Heberle
Conestoga-Rovers & Associates (CRA)
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

Phone: 916.889.8918
Fax: 916.889.8999
Cell: 916.919.0419
Email: lheberle@CRAworld.com

www.CRAworld.com

Think before you print 

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

October 27, 2014

Project: 373378 Tidewater Oakland

Submittal Date: 10/10/2014

Group Number: 1510124

PO Number: 4072862

State of Sample Origin: CA

Client Sample Description

MW-3-W-141007 Grab Water
MW1-S-35-141007 Grab Soil
BH5-S-10-141007 Grab Soil
BH5-S-15-141007 Grab Soil
BH5-S-20-141007 Grab Soil
MW-1-W-141007 Grab Water
BH5-S-30-141007 Grab Soil
BH5-S-35-141007 Grab Soil
BH4-S-10-141008 Grab Soil
BH4-S-15-141008 Grab Soil
BH4-S-20-141008 Grab Soil
BH4-S-25-141008 Grab Soil
BH4-S-30-141008 Grab Soil
BH4-S-35-141008 Grab Soil
BH5-W-141008 Grab Water
BH6-S-10-141008 Grab Soil
BH6-S-15-141008 Grab Soil
BH6-S-20-141008 Grab Soil

Lancaster Labs (LL) #

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7632747
7632748

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Chevron c/o CRA

COPY TO

Attn: Report Contact

ELECTRONIC Conestoga-Rovers & Associates

COPY TO

Attn: David Herzog

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: MW-3-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632731
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 09:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO003

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	16 J	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	0.9 J	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	51 J	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MW-3-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632731
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 09:30 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO003

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	75 J	50	1

Sample Description: MW-3-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632731
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 09:30 by BS Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Submitted: 10/10/2014 09:20 Suite 107
 Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO003

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			ug/l	ug/l	
01743	Aluminum	7429-90-5	71,900	67.4	1
07046	Barium	7440-39-3	434	0.33	1
08014	Boron	7440-42-8	1,010	4.6	1
07049	Cadmium	7440-43-9	N.D.	0.33	1
01750	Calcium	7440-70-2	90,800	33.4	1
07051	Chromium	7440-47-3	446	1.3	1
07053	Copper	7440-50-8	189	2.8	1
01754	Iron	7439-89-6	106,000	33.4	1
07055	Lead	7439-92-1	66.6	4.7	1
01757	Magnesium	7439-95-4	71,900	16.7	1
07058	Manganese	7439-96-5	3,220	0.83	1
07060	Molybdenum	7439-98-7	28.8	1.7	1
07061	Nickel	7440-02-0	475	1.6	1
10143	Phosphorus	7723-14-0	561	5.0	1
01765	Silicon	7440-21-3	77,800	19.5	1
07066	Silver	7440-22-4	N.D.	1.8	1
01767	Sodium	7440-23-5	84,200	167	1
12004	Sulfur	7704-34-9	14,100	19.2	1
07069	Tin	7440-31-5	5.6 J	2.4	1
07070	Titanium	7440-32-6	1,320	1.7	1
07071	Vanadium	7440-62-2	372	1.9	1
07072	Zinc	7440-66-6	204	2.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792
 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W142862AA	10/14/2014 01:05	Andrea E Lando	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142862AA	10/14/2014 01:05	Andrea E Lando	1
07805	PAHs 8270C Water	SW-846 8270C	1	14284WAJ026	10/14/2014 12:56	Brian K Graham	1
07807	BNA Water Extraction	SW-846 3510C	1	14284WAJ026	10/13/2014 09:30	David S Schrum	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14288A20A	10/15/2014 15:07	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14288A20A	10/15/2014 15:07	Miranda P Tillinghast	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	142860009A	10/14/2014 20:42	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	142860009A	10/13/2014 18:50	Samantha L Bronder	1

Sample Description: MW-3-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632731
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 09:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO003

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07060	Molybdenum	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
01765	Silicon	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
12004	Sulfur	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	142831848002	10/14/2014 05:53	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	142831848002	10/13/2014 10:37	Micaela L Dishong	1

Sample Description: MW1-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632732
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 11:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: MW1-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632732
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 11:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.13

Sample Description: MW1-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632732
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 11:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO135

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,900	4.45	1
06946	Barium	7440-39-3	99.3	0.0324	1
07914	Boron	7440-42-8	19.1	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.0647	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,470	3.72	1
06951	Chromium	7440-47-3	59.2	0.108	1
06953	Copper	7440-50-8	56.2	0.324	1
01654	Iron	7439-89-6	35,900	6.55	2
06955	Lead	7439-92-1	2.28	0.490	1
01657	Magnesium	7439-95-4	8,010	1.64	1
06958	Manganese	7439-96-5	670	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	62.2	0.147	1
10145	Phosphorus	7723-14-0	99.5	0.314	1
12763	Silicon	7440-21-3	572	1.60	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	336	16.4	1
12003	Sulfur	7704-34-9	8.20 J	1.10	1
06969	Tin	7440-31-5	1.90 J	0.422	1
06970	Titanium	7440-32-6	329	0.167	1
06971	Vanadium	7440-62-2	154	0.0892	1
06972	Zinc	7440-66-6	52.0	0.255	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 19:55	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: MW1-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632732
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 11:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO135

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 15:51	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/17/2014 20:23	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/14/2014 21:17	Miranda P Tillinghast	25.13
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 15:51	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 01:41	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 03:49	Elaine F Stoltzfus	2
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 03:49	Elaine F Stoltzfus	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 03:45	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 03:45	Elaine F Stoltzfus	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 03:45	Elaine F Stoltzfus	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 03:45	Elaine F Stoltzfus	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:16	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH5-S-10-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632733
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:15 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH5-S-10-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632733
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:15 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	0.003 J	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	0.003 J	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	0.004 J	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	0.004 J	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.003 J	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.15

Sample Description: BH5-S-10-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632733
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:15 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,100	4.45	1
06946	Barium	7440-39-3	92.0	0.0324	1
07914	Boron	7440-42-8	22.9	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,050	3.72	1
06951	Chromium	7440-47-3	58.3	0.108	1
06953	Copper	7440-50-8	81.1	0.324	1
01654	Iron	7439-89-6	44,400	16.4	5
06955	Lead	7439-92-1	N.D.	0.490	1
01657	Magnesium	7439-95-4	9,100	1.64	1
06958	Manganese	7439-96-5	645	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	45.6	0.147	1
10145	Phosphorus	7723-14-0	78.2	0.314	1
12763	Silicon	7440-21-3	965	1.60	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	343	16.4	1
12003	Sulfur	7704-34-9	26.5 J	1.10	1
06969	Tin	7440-31-5	3.42 J	0.422	1
06970	Titanium	7440-32-6	752	0.167	1
06971	Vanadium	7440-62-2	204	0.0892	1
06972	Zinc	7440-66-6	43.4	0.255	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 20:18	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH5-S-10-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632733
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:15 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO510

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 15:58	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/17/2014 23:44	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/14/2014 21:55	Miranda P Tillinghast	24.15
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:00	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 15:45	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 03:57	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 03:57	Elaine F Stoltzfus	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 04:11	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 04:11	Elaine F Stoltzfus	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 04:11	Elaine F Stoltzfus	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 04:11	Elaine F Stoltzfus	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:20	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH5-S-15-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632734
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:45 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO515

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.02
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	Bromobenzene	108-86-1	N.D.	0.001	1.02
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.02
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.02
10237	Bromoform	75-25-2	N.D.	0.001	1.02
10237	Bromomethane	74-83-9	N.D.	0.002	1.02
10237	2-Butanone	78-93-3	N.D.	0.004	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.02
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.02
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.02
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.02
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.02
10237	Chloroethane	75-00-3	N.D.	0.002	1.02
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.02
10237	Chloroform	67-66-3	N.D.	0.001	1.02
10237	Chloromethane	74-87-3	N.D.	0.002	1.02
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.02
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.02
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.02
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.02
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.02
10237	Dibromomethane	74-95-3	N.D.	0.001	1.02
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.02
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.02
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.02
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.02
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.02
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.02
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.02
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.02
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.02
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.02
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.02
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Freon 113	76-13-1	N.D.	0.002	1.02
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.02
10237	2-Hexanone	591-78-6	N.D.	0.003	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.02
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.02

Sample Description: BH5-S-15-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632734
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:45 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO515

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.02
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.02
10237	Styrene	100-42-5	N.D.	0.001	1.02
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.02
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.02
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.02
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.02
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	1.02
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.02
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.02
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.02
10237	o-Xylene	95-47-6	N.D.	0.001	1.02

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	0.004 J	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	0.004 J	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.004 J	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.93

Sample Description: BH5-S-15-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632734
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:45 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO515

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,100	4.50	1
06946	Barium	7440-39-3	74.2	0.0327	1
07914	Boron	7440-42-8	16.4	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.0327	1
01650	Calcium	7440-70-2	4,230	3.75	1
06951	Chromium	7440-47-3	45.0	0.109	1
06953	Copper	7440-50-8	47.9	0.327	1
01654	Iron	7439-89-6	29,200	6.61	2
06955	Lead	7439-92-1	1.93	0.495	1
01657	Magnesium	7439-95-4	5,660	1.65	1
06958	Manganese	7439-96-5	382	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	30.1	0.149	1
10145	Phosphorus	7723-14-0	75.6	0.317	1
12763	Silicon	7440-21-3	891	1.61	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	340	16.5	1
12003	Sulfur	7704-34-9	9.49 J	1.11	1
06969	Tin	7440-31-5	3.60 J	0.426	1
06970	Titanium	7440-32-6	686	0.168	1
06971	Vanadium	7440-62-2	127	0.0901	1
06972	Zinc	7440-66-6	34.0	0.257	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 20:40	Christopher G Torres	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:07	Mitchell R Washel	n.a.

Sample Description: BH5-S-15-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632734
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 12:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO515

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 00:09	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/14/2014 22:32	Miranda P Tillinghast	24.93
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:08	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 16:07	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 04:16	Elaine F Stoltzfus	1
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 04:20	Elaine F Stoltzfus	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 04:16	Elaine F Stoltzfus	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 04:16	Elaine F Stoltzfus	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 04:16	Elaine F Stoltzfus	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 04:16	Elaine F Stoltzfus	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:24	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH5-S-20-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632735
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 13:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO520

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.05
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.05
10237	Benzene	71-43-2	N.D.	0.0005	1.05
10237	Bromobenzene	108-86-1	N.D.	0.001	1.05
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.05
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.05
10237	Bromoform	75-25-2	N.D.	0.001	1.05
10237	Bromomethane	74-83-9	N.D.	0.002	1.05
10237	2-Butanone	78-93-3	N.D.	0.004	1.05
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.05
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.05
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.05
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.05
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.05
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.05
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.05
10237	Chloroethane	75-00-3	N.D.	0.002	1.05
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.05
10237	Chloroform	67-66-3	N.D.	0.001	1.05
10237	Chloromethane	74-87-3	N.D.	0.002	1.05
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.05
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.05
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.05
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.05
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.05
10237	Dibromomethane	74-95-3	N.D.	0.001	1.05
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.05
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.05
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.05
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.05
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.05
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.05
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.05
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.05
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.05
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.05
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.05
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.05
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.05
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.05
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.05
10237	Ethanol	64-17-5	N.D.	0.11	1.05
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.05
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.05
10237	Freon 113	76-13-1	N.D.	0.002	1.05
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.05
10237	2-Hexanone	591-78-6	N.D.	0.003	1.05
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.05
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.05
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.05

Sample Description: BH5-S-20-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632735
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 13:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO520

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.05
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.05
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.05
10237	Naphthalene	91-20-3	N.D.	0.001	1.05
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.05
10237	Styrene	100-42-5	N.D.	0.001	1.05
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.05
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.05
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.05
10237	Toluene	108-88-3	N.D.	0.001	1.05
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.05
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.05
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.05
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.05
10237	Trichloroethene	79-01-6	N.D.	0.001	1.05
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.05
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.05
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.05
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.05
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.05
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.05
10237	o-Xylene	95-47-6	N.D.	0.001	1.05

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.2

Sample Description: BH5-S-20-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632735
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 13:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO520

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,600	4.50	1
06946	Barium	7440-39-3	52.9	0.0327	1
07914	Boron	7440-42-8	40.3	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.163	5
01650	Calcium	7440-70-2	14,200	3.75	1
06951	Chromium	7440-47-3	56.8	0.109	1
06953	Copper	7440-50-8	73.8	0.327	1
01654	Iron	7439-89-6	92,300	16.5	5
06955	Lead	7439-92-1	N.D.	2.48	5
01657	Magnesium	7439-95-4	7,020	1.65	1
06958	Manganese	7439-96-5	683	0.0822	1
06960	Molybdenum	7439-98-7	1.72	0.168	1
06961	Nickel	7440-02-0	21.6	0.149	1
10145	Phosphorus	7723-14-0	57.8	1.58	5
12763	Silicon	7440-21-3	921	1.61	1
06966	Silver	7440-22-4	N.D.	0.941	5
Reporting limits for ICP metals were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	342	16.5	1
12003	Sulfur	7704-34-9	33.5 J	5.54	5
06969	Tin	7440-31-5	38.0	0.426	1
06970	Titanium	7440-32-6	1,560	0.168	1
06971	Vanadium	7440-62-2	782	0.0901	1
06972	Zinc	7440-66-6	43.7	0.257	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 21:02	Christopher G Torres	1.05
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH5-S-20-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632735
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 13:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO520

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:12	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 00:34	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/14/2014 23:10	Miranda P Tillinghast	25.2
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:13	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 02:47	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 03:04	Elaine F Stoltzfus	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/17/2014 16:17	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 03:04	Elaine F Stoltzfus	5
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/21/2014 02:39	Elaine F Stoltzfus	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 03:04	Elaine F Stoltzfus	5
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 16:17	Eric L Eby	5
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 03:04	Elaine F Stoltzfus	5
06969	Tin	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 14:42	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: MW-1-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632736
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 14:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO001

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	20	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	4 J	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	4 J	1	1
10335	sec-Butylbenzene	135-98-8	2 J	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	1	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: MW-1-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632736
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 14:45 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO001

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Isopropylbenzene	98-82-8	2 J	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	6	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	4 J	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	2 J	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	0.6 J	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	480	50	1
GC Petroleum SW-846 8015B			ug/l	ug/l	
Hydrocarbons					
06609	TPH-DRO CA C10-C28	n.a.	290	50	1

Sample Description: MW-1-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632736
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 14:45 by BS

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO001

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			ug/l	ug/l	
	SW-846 6010B				
01743	Aluminum	7429-90-5	26,800	67.4	1
07046	Barium	7440-39-3	402	0.33	1
08014	Boron	7440-42-8	1,190	4.6	1
07049	Cadmium	7440-43-9	N.D.	0.33	1
01750	Calcium	7440-70-2	90,400	33.4	1
07051	Chromium	7440-47-3	52.5	1.3	1
07053	Copper	7440-50-8	86.7	2.8	1
01754	Iron	7439-89-6	29,900	33.4	1
07055	Lead	7439-92-1	9.6 J	4.7	1
01757	Magnesium	7439-95-4	45,200	16.7	1
07058	Manganese	7439-96-5	3,370	0.83	1
07060	Molybdenum	7439-98-7	17.8	1.7	1
07061	Nickel	7440-02-0	77.9	1.6	1
10143	Phosphorus	7723-14-0	137	5.0	1
01765	Silicon	7440-21-3	73,900	19.5	1
07066	Silver	7440-22-4	N.D.	1.8	1
01767	Sodium	7440-23-5	113,000	835	5
12004	Sulfur	7704-34-9	11,900	19.2	1
07069	Tin	7440-31-5	N.D.	2.4	1
07070	Titanium	7440-32-6	559	1.7	1
07071	Vanadium	7440-62-2	198	1.9	1
07072	Zinc	7440-66-6	67.2	2.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792
 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W142862AA	10/14/2014 01:28	Andrea E Lando	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142862AA	10/14/2014 01:28	Andrea E Lando	1
07805	PAHs 8270C Water	SW-846 8270C	1	14284WAJ026	10/14/2014 13:26	Brian K Graham	1
07807	BNA Water Extraction	SW-846 3510C	1	14284WAJ026	10/13/2014 09:30	David S Schrum	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14288A20A	10/15/2014 15:29	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14288A20A	10/15/2014 15:29	Miranda P Tillinghast	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	142860009A	10/14/2014 20:21	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	142860009A	10/13/2014 18:50	Samantha L Bronder	1

Sample Description: MW-1-W-141007 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632736
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 14:45 by BS

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10969 Trade Center Drive
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Submitted: 10/10/2014 09:20

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MO001

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01743	Aluminum	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	142871848001	10/16/2014	05:06	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07060	Molybdenum	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
01765	Silicon	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	142871848001	10/20/2014	12:31	Eric L Eby	5
12004	Sulfur	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	142871848001	10/15/2014	07:07	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	142871848001	10/14/2014	21:30	Annamaria Kuhns	1

Sample Description: BH5-S-30-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632737
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 15:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO530

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH5-S-30-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632737
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 15:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO530

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.11

Sample Description: BH5-S-30-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632737
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 15:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO530

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300	4.50	1
06946	Barium	7440-39-3	89.7	0.0327	1
07914	Boron	7440-42-8	22.5	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.163	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	7,780	3.75	1
06951	Chromium	7440-47-3	55.1	0.109	1
06953	Copper	7440-50-8	88.6	0.327	1
01654	Iron	7439-89-6	40,500	16.5	5
06955	Lead	7439-92-1	1.36 J	0.495	1
01657	Magnesium	7439-95-4	9,240	1.65	1
06958	Manganese	7439-96-5	710	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	39.7	0.149	1
10145	Phosphorus	7723-14-0	99.3	0.317	1
12763	Silicon	7440-21-3	960	1.61	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	476	16.5	1
12003	Sulfur	7704-34-9	26.8 J	1.11	1
06969	Tin	7440-31-5	1.51 J	0.426	1
06970	Titanium	7440-32-6	694	0.168	1
06971	Vanadium	7440-62-2	222	0.0901	1
06972	Zinc	7440-66-6	43.4	0.257	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 21:24	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH5-S-30-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632737
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 15:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO530

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:17	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 01:00	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/14/2014 23:48	Miranda P Tillinghast	24.11
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:18	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 03:09	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 08:36	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 08:36	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 08:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 08:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 08:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:28	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH5-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632738
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 16:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO535

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.02
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	Bromobenzene	108-86-1	N.D.	0.001	1.02
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.02
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.02
10237	Bromoform	75-25-2	N.D.	0.001	1.02
10237	Bromomethane	74-83-9	N.D.	0.002	1.02
10237	2-Butanone	78-93-3	N.D.	0.004	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.02
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.02
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.02
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.02
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.02
10237	Chloroethane	75-00-3	N.D.	0.002	1.02
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.02
10237	Chloroform	67-66-3	N.D.	0.001	1.02
10237	Chloromethane	74-87-3	N.D.	0.002	1.02
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.02
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.02
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.02
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.02
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.02
10237	Dibromomethane	74-95-3	N.D.	0.001	1.02
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.02
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.02
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.02
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.02
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.02
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.02
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.02
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.02
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.02
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.02
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.02
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Freon 113	76-13-1	N.D.	0.002	1.02
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.02
10237	2-Hexanone	591-78-6	N.D.	0.003	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.02
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.02

Sample Description: BH5-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632738
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 16:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO535

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.02
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.02
10237	Styrene	100-42-5	N.D.	0.001	1.02
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.02
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.02
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.02
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.02
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	1.02
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.02
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.02
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.02
10237	o-Xylene	95-47-6	N.D.	0.001	1.02

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.008 J	0.003	1
10724	Phenanthrene	85-01-8	0.007 J	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.18

Sample Description: BH5-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632738
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 16:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO535

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,500	4.37	1
06946	Barium	7440-39-3	110	0.0317	1
07914	Boron	7440-42-8	19.2	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0635	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	5,280	3.64	1
06951	Chromium	7440-47-3	48.0	0.106	1
06953	Copper	7440-50-8	55.4	0.317	1
01654	Iron	7439-89-6	31,700	6.42	2
06955	Lead	7439-92-1	2.42	0.481	1
01657	Magnesium	7439-95-4	6,570	1.61	1
06958	Manganese	7439-96-5	723	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	43.3	0.144	1
10145	Phosphorus	7723-14-0	99.6	0.308	1
12763	Silicon	7440-21-3	877	1.57	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	318	16.1	1
12003	Sulfur	7704-34-9	3.94 J	1.08	1
06969	Tin	7440-31-5	1.74 J	0.413	1
06970	Titanium	7440-32-6	658	0.163	1
06971	Vanadium	7440-62-2	146	0.0875	1
06972	Zinc	7440-66-6	44.5	0.250	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	727	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 21:46	Christopher G Torres	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH5-S-35-141007 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632738
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/07/2014 16:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO535

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:22	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 01:24	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 00:26	Miranda P Tillinghast	25.18
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:22	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 03:31	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 08:44	Eric L Eby	2
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 08:44	Eric L Eby	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 08:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 08:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 08:40	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:31	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH4-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632739
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 08:50 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO410

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.02
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	Bromobenzene	108-86-1	N.D.	0.001	1.02
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.02
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.02
10237	Bromoform	75-25-2	N.D.	0.001	1.02
10237	Bromomethane	74-83-9	N.D.	0.002	1.02
10237	2-Butanone	78-93-3	N.D.	0.004	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.02
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.02
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.02
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.02
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.02
10237	Chloroethane	75-00-3	N.D.	0.002	1.02
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.02
10237	Chloroform	67-66-3	N.D.	0.001	1.02
10237	Chloromethane	74-87-3	N.D.	0.002	1.02
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.02
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.02
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.02
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.02
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.02
10237	Dibromomethane	74-95-3	N.D.	0.001	1.02
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.02
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.02
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.02
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.02
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.02
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.02
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.02
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.02
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.02
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.02
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.02
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Freon 113	76-13-1	N.D.	0.002	1.02
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.02
10237	2-Hexanone	591-78-6	N.D.	0.003	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.02
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.02

Sample Description: BH4-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632739
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 08:50 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO410

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.02
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.02
10237	Styrene	100-42-5	N.D.	0.001	1.02
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.02
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.02
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.02
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.02
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	1.02
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.02
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.02
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.02
10237	o-Xylene	95-47-6	N.D.	0.001	1.02

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.010 J	0.003	1
10724	Phenanthrene	85-01-8	0.008 J	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.61

Sample Description: BH4-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632739
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 08:50 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO410

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,500	4.37	1
06946	Barium	7440-39-3	88.1	0.0317	1
07914	Boron	7440-42-8	12.5	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0635	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	3,710	3.64	1
06951	Chromium	7440-47-3	40.8	0.106	1
06953	Copper	7440-50-8	43.7	0.317	1
01654	Iron	7439-89-6	26,300	6.42	2
06955	Lead	7439-92-1	2.75	0.481	1
01657	Magnesium	7439-95-4	5,840	1.61	1
06958	Manganese	7439-96-5	438	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	37.6	0.144	1
10145	Phosphorus	7723-14-0	83.0	0.308	1
12763	Silicon	7440-21-3	387	1.57	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	166	16.1	1
12003	Sulfur	7704-34-9	11.8 J	1.08	1
06969	Tin	7440-31-5	2.05 J	0.413	1
06970	Titanium	7440-32-6	286	0.163	1
06971	Vanadium	7440-62-2	102	0.0875	1
06972	Zinc	7440-66-6	36.6	0.250	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	290 J	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 22:09	Christopher G Torres	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH4-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632739
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 08:50 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO410

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:27	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 01:49	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 01:03	Miranda P Tillinghast	24.61
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:28	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 03:53	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 08:51	Eric L Eby	2
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 08:51	Eric L Eby	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 08:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 08:47	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 08:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 08:47	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:35	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH4-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632740
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:10 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO415

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.97
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.97
10237	Benzene	71-43-2	N.D.	0.0005	0.97
10237	Bromobenzene	108-86-1	N.D.	0.001	0.97
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.97
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.97
10237	Bromoform	75-25-2	N.D.	0.001	0.97
10237	Bromomethane	74-83-9	N.D.	0.002	0.97
10237	2-Butanone	78-93-3	N.D.	0.004	0.97
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.97
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.97
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.97
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.97
10237	Chloroethane	75-00-3	N.D.	0.002	0.97
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.97
10237	Chloroform	67-66-3	N.D.	0.001	0.97
10237	Chloromethane	74-87-3	N.D.	0.002	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.97
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.97
10237	Dibromomethane	74-95-3	N.D.	0.001	0.97
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.97
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.97
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.97
10237	Ethanol	64-17-5	N.D.	0.097	0.97
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.97
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.97
10237	Freon 113	76-13-1	N.D.	0.002	0.97
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.97
10237	2-Hexanone	591-78-6	N.D.	0.003	0.97
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.97
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.97

Sample Description: BH4-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632740
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:10 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO415

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.97
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.97
10237	Naphthalene	91-20-3	N.D.	0.001	0.97
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.97
10237	Styrene	100-42-5	N.D.	0.001	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.97
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.97
10237	Toluene	108-88-3	N.D.	0.001	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.97
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.97
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.97
10237	Trichloroethene	79-01-6	N.D.	0.001	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.97
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.97
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.97
10237	o-Xylene	95-47-6	N.D.	0.001	0.97

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.004 J	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.13

Sample Description: BH4-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632740
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:10 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO415

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,100	4.45	1
06946	Barium	7440-39-3	81.5	0.0324	1
07914	Boron	7440-42-8	13.8	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.0647	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	4,420	3.72	1
06951	Chromium	7440-47-3	38.4	0.108	1
06953	Copper	7440-50-8	51.5	0.324	1
01654	Iron	7439-89-6	27,700	6.55	2
06955	Lead	7439-92-1	2.34	0.490	1
01657	Magnesium	7439-95-4	5,710	1.64	1
06958	Manganese	7439-96-5	566	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	34.4	0.147	1
10145	Phosphorus	7723-14-0	74.8	0.314	1
12763	Silicon	7440-21-3	459	1.60	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	206	16.4	1
12003	Sulfur	7704-34-9	4.75 J	1.10	1
06969	Tin	7440-31-5	1.64 J	0.422	1
06970	Titanium	7440-32-6	317	0.167	1
06971	Vanadium	7440-62-2	121	0.0892	1
06972	Zinc	7440-66-6	34.2	0.255	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 22:31	Christopher G Torres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH4-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632740
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:10 by BS

Conestoga-Rovers & Associates

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MO415

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:32	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 02:14	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 01:41	Miranda P Tillinghast	25.13
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:33	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 04:16	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 08:59	Eric L Eby	2
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 08:59	Eric L Eby	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 08:55	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 08:55	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 08:55	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 08:55	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:39	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH4-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632741
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:55 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO420

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH4-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632741
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:55 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO420

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.39

Sample Description: BH4-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632741
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:55 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO420

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,100	4.41	1
06946	Barium	7440-39-3	92.9	0.0320	1
07914	Boron	7440-42-8	21.3	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	7,320	3.68	1
06951	Chromium	7440-47-3	37.5	0.107	1
06953	Copper	7440-50-8	86.4	0.320	1
01654	Iron	7439-89-6	41,100	16.2	5
06955	Lead	7439-92-1	0.917 J	0.485	1
01657	Magnesium	7439-95-4	8,340	1.62	1
06958	Manganese	7439-96-5	706	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	38.1	0.146	1
10145	Phosphorus	7723-14-0	80.6	0.311	1
12763	Silicon	7440-21-3	711	1.58	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	755	16.2	1
12003	Sulfur	7704-34-9	17.3 J	1.09	1
06969	Tin	7440-31-5	1.72 J	0.417	1
06970	Titanium	7440-32-6	667	0.165	1
06971	Vanadium	7440-62-2	256	0.0883	1
06972	Zinc	7440-66-6	41.7	0.252	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	260 J	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 22:53	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH4-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632741
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 09:55 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO420

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:40	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 02:39	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 02:19	Miranda P Tillinghast	24.39
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:43	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 16:29	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 09:06	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 09:06	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 09:02	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 09:02	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 09:02	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 09:02	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:43	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14295659801A	10/23/2014 06:30	Yolunder Y Bunch	1

Sample Description: BH4-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632742
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 10:35 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO425

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH4-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632742
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 10:35 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO425

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC	Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.23

Sample Description: BH4-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632742
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 10:35 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO425

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,900	4.41	1
06946	Barium	7440-39-3	86.6	0.0320	1
07914	Boron	7440-42-8	22.9	0.816	1
06949	Cadmium	7440-43-9	N.D.	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	16,800	3.68	1
06951	Chromium	7440-47-3	38.2	0.107	1
06953	Copper	7440-50-8	106	0.320	1
01654	Iron	7439-89-6	41,600	16.2	5
06955	Lead	7439-92-1	0.579 J	0.485	1
01657	Magnesium	7439-95-4	11,400	1.62	1
06958	Manganese	7439-96-5	829	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	31.8	0.146	1
10145	Phosphorus	7723-14-0	65.1	0.311	1
12763	Silicon	7440-21-3	1,180	1.58	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	373	16.2	1
12003	Sulfur	7704-34-9	7.83 J	1.09	1
06969	Tin	7440-31-5	2.02 J	0.417	1
06970	Titanium	7440-32-6	682	0.165	1
06971	Vanadium	7440-62-2	198	0.0883	1
06972	Zinc	7440-66-6	45.1	0.252	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 23:20	Christopher G Torres	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH4-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632742
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 10:35 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO425

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:47	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 03:04	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 03:34	Miranda P Tillinghast	25.23
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:48	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 14:38	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 09:21	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 09:21	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 09:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 09:17	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 09:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 09:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:47	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH4-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632743
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 11:35 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO430

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: BH4-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632743
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 11:35 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO430

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	0.006 J	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.48

Sample Description: BH4-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632743
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 11:35 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO430

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,700	4.37	1
06946	Barium	7440-39-3	104	0.0317	1
07914	Boron	7440-42-8	20.7	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.159	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	6,480	3.64	1
06951	Chromium	7440-47-3	51.6	0.106	1
06953	Copper	7440-50-8	70.7	0.317	1
01654	Iron	7439-89-6	36,500	16.1	5
06955	Lead	7439-92-1	2.22	0.481	1
01657	Magnesium	7439-95-4	9,010	1.61	1
06958	Manganese	7439-96-5	864	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	59.3	0.144	1
10145	Phosphorus	7723-14-0	107	0.308	1
12763	Silicon	7440-21-3	868	1.57	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	232	16.1	1
12003	Sulfur	7704-34-9	2.83 J	1.08	1
06969	Tin	7440-31-5	2.38 J	0.413	1
06970	Titanium	7440-32-6	456	0.163	1
06971	Vanadium	7440-62-2	165	0.0875	1
06972	Zinc	7440-66-6	49.9	0.250	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/13/2014 23:42	Christopher G Torres	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:21	Mitchell R Washel	n.a.

Sample Description: BH4-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632743
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 11:35 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO430

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:09	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 03:30	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 04:12	Miranda P Tillinghast	25.48
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:10	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 04:38	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 09:28	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 09:28	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 09:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 09:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 09:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 15:50	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH4-S-35-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632744
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 12:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO435

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.93
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.93
10237	Benzene	71-43-2	N.D.	0.0005	0.93
10237	Bromobenzene	108-86-1	N.D.	0.0009	0.93
10237	Bromochloromethane	74-97-5	N.D.	0.0009	0.93
10237	Bromodichloromethane	75-27-4	N.D.	0.0009	0.93
10237	Bromoform	75-25-2	N.D.	0.0009	0.93
10237	Bromomethane	74-83-9	N.D.	0.002	0.93
10237	2-Butanone	78-93-3	N.D.	0.004	0.93
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.93
10237	n-Butylbenzene	104-51-8	N.D.	0.0009	0.93
10237	sec-Butylbenzene	135-98-8	N.D.	0.0009	0.93
10237	tert-Butylbenzene	98-06-6	N.D.	0.0009	0.93
10237	Carbon Disulfide	75-15-0	N.D.	0.0009	0.93
10237	Carbon Tetrachloride	56-23-5	N.D.	0.0009	0.93
10237	Chlorobenzene	108-90-7	N.D.	0.0009	0.93
10237	Chloroethane	75-00-3	N.D.	0.002	0.93
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.93
10237	Chloroform	67-66-3	N.D.	0.0009	0.93
10237	Chloromethane	74-87-3	N.D.	0.002	0.93
10237	2-Chlorotoluene	95-49-8	N.D.	0.0009	0.93
10237	4-Chlorotoluene	106-43-4	N.D.	0.0009	0.93
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.93
10237	Dibromochloromethane	124-48-1	N.D.	0.0009	0.93
10237	1,2-Dibromoethane	106-93-4	N.D.	0.0009	0.93
10237	Dibromomethane	74-95-3	N.D.	0.0009	0.93
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.0009	0.93
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.0009	0.93
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.0009	0.93
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.93
10237	1,1-Dichloroethane	75-34-3	N.D.	0.0009	0.93
10237	1,2-Dichloroethane	107-06-2	N.D.	0.0009	0.93
10237	1,1-Dichloroethene	75-35-4	N.D.	0.0009	0.93
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.93
10237	1,2-Dichloropropane	78-87-5	N.D.	0.0009	0.93
10237	1,3-Dichloropropane	142-28-9	N.D.	0.0009	0.93
10237	2,2-Dichloropropane	594-20-7	N.D.	0.0009	0.93
10237	1,1-Dichloropropene	563-58-6	N.D.	0.0009	0.93
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0009	0.93
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0009	0.93
10237	Ethanol	64-17-5	N.D.	0.093	0.93
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.93
10237	Freon 113	76-13-1	N.D.	0.002	0.93
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.93
10237	2-Hexanone	591-78-6	N.D.	0.003	0.93
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.93
10237	Isopropylbenzene	98-82-8	N.D.	0.0009	0.93
10237	p-Isopropyltoluene	99-87-6	N.D.	0.0009	0.93

Sample Description: BH4-S-35-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632744
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 12:00 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO435

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.93
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.93
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.93
10237	Naphthalene	91-20-3	N.D.	0.0009	0.93
10237	n-Propylbenzene	103-65-1	N.D.	0.0009	0.93
10237	Styrene	100-42-5	N.D.	0.0009	0.93
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.0009	0.93
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0009	0.93
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.93
10237	Toluene	108-88-3	N.D.	0.0009	0.93
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.0009	0.93
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.0009	0.93
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.0009	0.93
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.0009	0.93
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.93
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.93
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.0009	0.93
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.0009	0.93
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.0009	0.93
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.93
10237	m+p-Xylene	179601-23-1	N.D.	0.0009	0.93
10237	o-Xylene	95-47-6	N.D.	0.0009	0.93

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.35

Sample Description: BH4-S-35-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632744
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 12:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO435

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,900	4.37	1
06946	Barium	7440-39-3	99.5	0.0317	1
07914	Boron	7440-42-8	18.8	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.0635	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	6,650	3.64	1
06951	Chromium	7440-47-3	44.1	0.106	1
06953	Copper	7440-50-8	63.0	0.317	1
01654	Iron	7439-89-6	31,600	6.42	2
06955	Lead	7439-92-1	2.64	0.481	1
01657	Magnesium	7439-95-4	7,770	1.61	1
06958	Manganese	7439-96-5	865	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	51.3	0.144	1
10145	Phosphorus	7723-14-0	112	0.308	1
12763	Silicon	7440-21-3	1,040	1.57	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	210	16.1	1
12003	Sulfur	7704-34-9	1.80 J	1.08	1
06969	Tin	7440-31-5	1.90 J	0.413	1
06970	Titanium	7440-32-6	563	0.163	1
06971	Vanadium	7440-62-2	160	0.0875	1
06972	Zinc	7440-66-6	41.1	0.250	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/14/2014 00:05	Christopher G Torres	0.93
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:06	Mitchell R Washel	n.a.

Sample Description: BH4-S-35-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632744
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 12:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO435

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:52	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 03:55	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 04:50	Miranda P Tillinghast	25.35
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:53	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 05:00	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 09:36	Eric L Eby	2
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 09:36	Eric L Eby	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 09:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 09:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 09:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 16:01	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH5-W-141008 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632745
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO005

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Acetone	67-64-1	6 J	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: BH5-W-141008 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632745
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO005

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

GC Volatiles SW-846 8015B ug/l ug/l

Sample Description: BH5-W-141008 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632745
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO005

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
01728	TPH-GRO N. CA water	SW-846 8015B C6-C12 n.a.	ug/l N.D.	ug/l 50	1
GC Petroleum Hydrocarbons					
06609	TPH-DRO CA C10-C28	SW-846 8015B n.a.	ug/l N.D.	ug/l 50	1
Metals					
01743	Aluminum	SW-846 6010B 7429-90-5	ug/l 40,700	ug/l 67.4	1
07046	Barium	7440-39-3	586	0.33	1
08014	Boron	7440-42-8	259	4.6	1
07049	Cadmium	7440-43-9	0.82 J	0.33	1
01750	Calcium	7440-70-2	98,800	33.4	1
07051	Chromium	7440-47-3	84.6	1.3	1
07053	Copper	7440-50-8	120	2.8	1
01754	Iron	7439-89-6	41,200	33.4	1
07055	Lead	7439-92-1	5.9 J	4.7	1
01757	Magnesium	7439-95-4	48,400	16.7	1
07058	Manganese	7439-96-5	2,930	0.83	1
07060	Molybdenum	7439-98-7	38.7	1.7	1
07061	Nickel	7440-02-0	142	1.6	1
10143	Phosphorus	7723-14-0	233	5.0	1
01765	Silicon	7440-21-3	101,000	39.0	2
07066	Silver	7440-22-4	N.D.	1.8	1
01767	Sodium	7440-23-5	87,300	334	2
12004	Sulfur	7704-34-9	12,300	19.2	1
07069	Tin	7440-31-5	N.D.	2.4	1
07070	Titanium	7440-32-6	702	1.7	1
07071	Vanadium	7440-62-2	247	1.9	1
07072	Zinc	7440-66-6	96.5	2.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W142862AA	10/14/2014 01:52	Andrea E Lando	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142862AA	10/14/2014 01:52	Andrea E Lando	1
07805	PAHs 8270C Water	SW-846 8270C	1	14287WAG026	10/16/2014 02:23	Holly Berry	1

Sample Description: BH5-W-141008 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7632745
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO005

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07807	BNA Water Extraction	SW-846 3510C	1	14287WAG026	10/14/2014 20:00	Nicholas W Shroyer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14288A20A	10/15/2014 15:51	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14288A20A	10/15/2014 15:51	Miranda P Tillinghast	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	142860009A	10/14/2014 19:59	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	142860009A	10/13/2014 18:50	Samantha L Bronder	1
01743	Aluminum	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	142871848001	10/16/2014 06:12	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07060	Molybdenum	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
01765	Silicon	SW-846 6010B	1	142871848001	10/16/2014 06:16	Tara L Snyder	2
07066	Silver	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	142871848001	10/20/2014 12:55	Eric L Eby	2
12004	Sulfur	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07071	Vanadium	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	142871848001	10/15/2014 08:55	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	142871848001	10/14/2014 21:30	Annamaria Kuhns	1

Sample Description: BH6-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632746
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO610

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.02
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.02
10237	Benzene	71-43-2	N.D.	0.0005	1.02
10237	Bromobenzene	108-86-1	N.D.	0.001	1.02
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.02
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.02
10237	Bromoform	75-25-2	N.D.	0.001	1.02
10237	Bromomethane	74-83-9	N.D.	0.002	1.02
10237	2-Butanone	78-93-3	N.D.	0.004	1.02
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.02
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.02
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.02
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.02
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.02
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.02
10237	Chloroethane	75-00-3	N.D.	0.002	1.02
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.02
10237	Chloroform	67-66-3	N.D.	0.001	1.02
10237	Chloromethane	74-87-3	N.D.	0.002	1.02
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.02
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.02
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.02
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.02
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.02
10237	Dibromomethane	74-95-3	N.D.	0.001	1.02
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.02
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.02
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.02
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.02
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.02
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.02
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.02
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.02
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.02
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.02
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.02
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.02
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.02
10237	Ethanol	64-17-5	N.D.	0.10	1.02
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.02
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.02
10237	Freon 113	76-13-1	N.D.	0.002	1.02
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.02
10237	2-Hexanone	591-78-6	N.D.	0.003	1.02
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.02
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.02
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.02

Sample Description: BH6-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632746
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO610

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.02
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.02
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.02
10237	Naphthalene	91-20-3	N.D.	0.001	1.02
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.02
10237	Styrene	100-42-5	N.D.	0.001	1.02
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.02
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.02
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.02
10237	Toluene	108-88-3	N.D.	0.001	1.02
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.02
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.02
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.02
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.02
10237	Trichloroethene	79-01-6	N.D.	0.001	1.02
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.02
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.02
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.02
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.02
10237	o-Xylene	95-47-6	N.D.	0.001	1.02

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	0.008 J	0.003	1
10724	Phenanthrene	85-01-8	0.003 J	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.9

Sample Description: BH6-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632746
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO610

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,700	4.45	1
06946	Barium	7440-39-3	90.3	0.0324	1
07914	Boron	7440-42-8	23.0	0.824	1
06949	Cadmium	7440-43-9	N.D.	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	4,840	3.72	1
06951	Chromium	7440-47-3	43.4	0.108	1
06953	Copper	7440-50-8	84.1	0.324	1
01654	Iron	7439-89-6	39,900	16.4	5
06955	Lead	7439-92-1	1.12 J	0.490	1
01657	Magnesium	7439-95-4	8,770	1.64	1
06958	Manganese	7439-96-5	706	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	46.5	0.147	1
10145	Phosphorus	7723-14-0	61.4	0.314	1
12763	Silicon	7440-21-3	847	1.60	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	531	16.4	1
12003	Sulfur	7704-34-9	21.4 J	1.10	1
06969	Tin	7440-31-5	14.7	0.422	1
06970	Titanium	7440-32-6	568	0.167	1
06971	Vanadium	7440-62-2	199	0.0892	1
06972	Zinc	7440-66-6	40.9	0.255	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/14/2014 00:27	Christopher G Torres	1.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:07	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:07	Mitchell R Washel	n.a.

Sample Description: BH6-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632746
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:15 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO610

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:58	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 04:20	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 05:28	Miranda P Tillinghast	23.9
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 16:59	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 05:22	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 09:43	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 09:43	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 09:39	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 09:39	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 09:39	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 09:39	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 16:05	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH6-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632747
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:25 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO615

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.98
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.98
10237	Benzene	71-43-2	N.D.	0.0005	0.98
10237	Bromobenzene	108-86-1	N.D.	0.001	0.98
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.98
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.98
10237	Bromoform	75-25-2	N.D.	0.001	0.98
10237	Bromomethane	74-83-9	N.D.	0.002	0.98
10237	2-Butanone	78-93-3	N.D.	0.004	0.98
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.98
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.98
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.98
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.98
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.98
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.98
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.98
10237	Chloroethane	75-00-3	N.D.	0.002	0.98
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.98
10237	Chloroform	67-66-3	N.D.	0.001	0.98
10237	Chloromethane	74-87-3	N.D.	0.002	0.98
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.98
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.98
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.98
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.98
10237	Dibromomethane	74-95-3	N.D.	0.001	0.98
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.98
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.98
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.98
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.98
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.98
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.98
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.98
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.98
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.98
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.98
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.98
10237	Ethanol	64-17-5	N.D.	0.098	0.98
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.98
10237	Freon 113	76-13-1	N.D.	0.002	0.98
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.98
10237	2-Hexanone	591-78-6	N.D.	0.003	0.98
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.98
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.98
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.98

Sample Description: BH6-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632747
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:25 by BS

Conestoga-Rovers & Associates

Submitted: 10/10/2014 09:20

10969 Trade Center Drive

Reported: 10/27/2014 16:56

Suite 107

Rancho Cordova CA 95670

MO615

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.98
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.98
10237	Naphthalene	91-20-3	N.D.	0.001	0.98
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.98
10237	Styrene	100-42-5	N.D.	0.001	0.98
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.98
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.98
10237	Toluene	108-88-3	N.D.	0.001	0.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.98
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.98
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.98
10237	Trichloroethene	79-01-6	N.D.	0.001	0.98
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.98
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.98
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.98
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.98
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.98
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.98
10237	o-Xylene	95-47-6	N.D.	0.001	0.98

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.9

Sample Description: BH6-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632747
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:25 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO615

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,500	4.37	1
06946	Barium	7440-39-3	83.7	0.0317	1
07914	Boron	7440-42-8	19.4	0.808	1
06949	Cadmium	7440-43-9	N.D.	0.159	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	4,560	3.64	1
06951	Chromium	7440-47-3	43.9	0.106	1
06953	Copper	7440-50-8	60.9	0.317	1
01654	Iron	7439-89-6	33,800	16.1	5
06955	Lead	7439-92-1	1.98	0.481	1
01657	Magnesium	7439-95-4	5,980	1.61	1
06958	Manganese	7439-96-5	538	0.0798	1
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	32.4	0.144	1
10145	Phosphorus	7723-14-0	62.4	0.308	1
12763	Silicon	7440-21-3	865	1.57	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	488	16.1	1
12003	Sulfur	7704-34-9	6.39 J	1.08	1
06969	Tin	7440-31-5	1.84 J	0.413	1
06970	Titanium	7440-32-6	669	0.163	1
06971	Vanadium	7440-62-2	168	0.0875	1
06972	Zinc	7440-66-6	35.0	0.250	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/14/2014 00:49	Christopher G Torres	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:21	Mitchell R Washel	n.a.

Sample Description: BH6-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632747
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 13:25 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/10/2014 09:20

Reported: 10/27/2014 16:56

MO615

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:13	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 04:45	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 06:06	Miranda P Tillinghast	24.9
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:14	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 15:00	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 09:50	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 09:50	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 09:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 09:47	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 09:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 09:47	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 16:09	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH6-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632748
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 14:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO620

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.06
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.06
10237	Benzene	71-43-2	N.D.	0.0005	1.06
10237	Bromobenzene	108-86-1	N.D.	0.001	1.06
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.06
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.06
10237	Bromoform	75-25-2	N.D.	0.001	1.06
10237	Bromomethane	74-83-9	N.D.	0.002	1.06
10237	2-Butanone	78-93-3	N.D.	0.004	1.06
10237	t-Butyl alcohol	75-65-0	N.D.	0.021	1.06
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.06
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.06
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.06
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.06
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.06
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.06
10237	Chloroethane	75-00-3	N.D.	0.002	1.06
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.06
10237	Chloroform	67-66-3	N.D.	0.001	1.06
10237	Chloromethane	74-87-3	N.D.	0.002	1.06
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.06
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.06
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.06
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.06
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.06
10237	Dibromomethane	74-95-3	N.D.	0.001	1.06
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.06
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.06
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.06
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.06
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.06
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.06
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.06
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.06
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.06
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.06
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.06
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.06
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.06
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.06
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.06
10237	Ethanol	64-17-5	N.D.	0.11	1.06
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.06
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.06
10237	Freon 113	76-13-1	N.D.	0.002	1.06
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.06
10237	2-Hexanone	591-78-6	N.D.	0.003	1.06
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.06
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.06
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.06

Sample Description: BH6-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632748
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 14:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/10/2014 09:20

Suite 107

Reported: 10/27/2014 16:56

Rancho Cordova CA 95670

MO620

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.06
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.06
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.06
10237	Naphthalene	91-20-3	N.D.	0.001	1.06
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.06
10237	Styrene	100-42-5	N.D.	0.001	1.06
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.06
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.06
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.06
10237	Toluene	108-88-3	N.D.	0.001	1.06
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.06
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.06
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.06
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.06
10237	Trichloroethene	79-01-6	N.D.	0.001	1.06
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.06
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.06
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.06
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.06
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.06
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.06
10237	o-Xylene	95-47-6	N.D.	0.001	1.06

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-chloroethyl vinyl ether.

GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1

GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	23.88

Sample Description: BH6-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632748
LL Group # 1510124
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 14:30 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/10/2014 09:20 Suite 107
Reported: 10/27/2014 16:56 Rancho Cordova CA 95670

MO620

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,900	4.50	1
06946	Barium	7440-39-3	100	0.0327	1
07914	Boron	7440-42-8	19.0	0.832	1
06949	Cadmium	7440-43-9	N.D.	0.0653	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	6,330	3.75	1
06951	Chromium	7440-47-3	42.1	0.109	1
06953	Copper	7440-50-8	79.1	0.327	1
01654	Iron	7439-89-6	41,700	6.61	2
06955	Lead	7439-92-1	2.57	0.495	1
01657	Magnesium	7439-95-4	8,400	1.65	1
06958	Manganese	7439-96-5	857	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	36.8	0.149	1
10145	Phosphorus	7723-14-0	94.8	0.317	1
12763	Silicon	7440-21-3	824	1.61	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	426	16.5	1
12003	Sulfur	7704-34-9	10.0 J	1.11	1
06969	Tin	7440-31-5	2.41 J	0.426	1
06970	Titanium	7440-32-6	628	0.168	1
06971	Vanadium	7440-62-2	181	0.0901	1
06972	Zinc	7440-66-6	53.9	0.257	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142861AA	10/14/2014 01:12	Christopher G Torres	1.06
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428335848	10/10/2014 17:21	Mitchell R Washel	n.a.

Sample Description: BH6-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7632748
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Suite 107
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MO620

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:18	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLD026	10/18/2014 05:10	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLD026	10/14/2014 04:10	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 06:43	Miranda P Tillinghast	23.88
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428335848	10/10/2014 17:19	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 15:23	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06946	Barium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	142875708001	10/21/2014 10:05	Eric L Eby	2
01650	Calcium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06953	Copper	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	142875708001	10/21/2014 10:05	Eric L Eby	2
06955	Lead	SW-846 6010B	1	142875708001	10/21/2014 10:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06960	Molybdenum	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	142875708001	10/21/2014 10:01	Eric L Eby	1
12763	Silicon	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06966	Silver	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
12003	Sulfur	SW-846 6010B	1	142875708001	10/21/2014 10:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	142875708001	10/21/2014 10:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	142875708001	10/17/2014 16:13	Eric L Eby	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708001	10/14/2014 20:00	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B142861AA	Sample number(s): 7632732-7632735, 7632737-7632744, 7632746-7632748							
Acetone	N.D.	0.007	mg/kg	96	86	53-141	11	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	90	86	63-130	5	30
Benzene	N.D.	0.0005	mg/kg	93	90	80-120	3	30
Bromobenzene	N.D.	0.001	mg/kg	88	89	78-120	1	30
Bromochloromethane	N.D.	0.001	mg/kg	100	94	80-128	7	30
Bromodichloromethane	N.D.	0.001	mg/kg	94	90	75-120	4	30
Bromoform	N.D.	0.001	mg/kg	93	83	70-126	12	30
Bromomethane	N.D.	0.002	mg/kg	84	84	32-162	1	30
2-Butanone	N.D.	0.004	mg/kg	97	85	62-123	13	30
t-Butyl alcohol	N.D.	0.020	mg/kg	94	94	72-125	0	30
n-Butylbenzene	N.D.	0.001	mg/kg	90	91	72-120	2	30
sec-Butylbenzene	N.D.	0.001	mg/kg	94	95	69-120	2	30
tert-Butylbenzene	N.D.	0.001	mg/kg	88	91	75-120	3	30
Carbon Disulfide	N.D.	0.001	mg/kg	81	78	63-128	3	30
Carbon Tetrachloride	N.D.	0.001	mg/kg	98	94	69-130	4	30
Chlorobenzene	N.D.	0.001	mg/kg	94	91	80-120	3	30
Chloroethane	N.D.	0.002	mg/kg	80	76	17-171	5	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/kg	64	56*	64-124	13	30
Chloroform	N.D.	0.001	mg/kg	99	97	80-125	3	30
Chloromethane	N.D.	0.002	mg/kg	83	82	56-120	1	30
2-Chlorotoluene	N.D.	0.001	mg/kg	87	91	78-120	5	30
4-Chlorotoluene	N.D.	0.001	mg/kg	89	91	79-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/kg	100	91	59-122	9	30
Dibromochloromethane	N.D.	0.001	mg/kg	98	91	77-120	8	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	100	90	80-120	10	30
Dibromomethane	N.D.	0.001	mg/kg	94	89	80-120	5	30
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	90	91	80-120	1	30
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	87	89	80-120	2	30
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	88	88	80-120	0	30
Dichlorodifluoromethane	N.D.	0.002	mg/kg	90	89	26-137	1	30
1,1-Dichloroethane	N.D.	0.001	mg/kg	92	88	80-122	5	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	102	99	77-130	3	30
1,1-Dichloroethene	N.D.	0.001	mg/kg	93	89	73-129	4	30
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	94	91	80-120	3	30
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	95	99	80-129	4	30
1,2-Dichloropropane	N.D.	0.001	mg/kg	85	83	80-120	3	30
1,3-Dichloropropane	N.D.	0.001	mg/kg	96	88	80-120	8	30
2,2-Dichloropropane	N.D.	0.001	mg/kg	92	90	72-123	2	30
1,1-Dichloropropene	N.D.	0.001	mg/kg	96	92	80-126	4	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	88	87	74-120	0	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	96	91	76-120	6	30
Ethanol	N.D.	0.10	mg/kg	71	82	46-146	14	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	89	85	70-122	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethylbenzene	N.D.	0.001	mg/kg	95	92	80-120	3	30
Freon 113	N.D.	0.002	mg/kg	81	82	64-137	0	30
Hexachlorobutadiene	N.D.	0.002	mg/kg	89	90	46-130	2	30
2-Hexanone	N.D.	0.003	mg/kg	102	84	51-120	18	30
di-Isopropyl ether	N.D.	0.001	mg/kg	85	83	77-123	2	30
Isopropylbenzene	N.D.	0.001	mg/kg	97	95	76-120	3	30
p-Isopropyltoluene	N.D.	0.001	mg/kg	90	92	69-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	97	95	76-122	1	30
4-Methyl-2-pentanone	N.D.	0.003	mg/kg	89	79	57-123	11	30
Methylene Chloride	N.D.	0.002	mg/kg	96	91	80-124	5	30
Naphthalene	N.D.	0.001	mg/kg	88	83	64-120	7	30
n-Propylbenzene	N.D.	0.001	mg/kg	93	95	77-120	2	30
Styrene	N.D.	0.001	mg/kg	97	95	76-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/kg	94	91	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	92	86	71-123	6	30
Tetrachloroethene	N.D.	0.001	mg/kg	93	89	78-120	3	30
Toluene	N.D.	0.001	mg/kg	94	94	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/kg	84	85	64-120	0	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/kg	83	83	68-120	1	30
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	99	96	63-135	4	30
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	98	91	80-120	7	30
Trichloroethene	N.D.	0.001	mg/kg	96	94	80-125	2	30
Trichlorofluoromethane	N.D.	0.002	mg/kg	96	92	58-133	4	30
1,2,3-Trichloropropane	N.D.	0.001	mg/kg	100	93	71-123	7	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/kg	96	97	79-120	1	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/kg	95	97	78-120	2	30
Vinyl Chloride	N.D.	0.001	mg/kg	85	84	59-120	2	30
m+p-Xylene	N.D.	0.001	mg/kg	96	93	80-120	4	30
o-Xylene	N.D.	0.001	mg/kg	94	91	80-120	3	30

Batch number: W142862AA

Sample number(s): 7632731,7632736,7632745

Acetone	N.D.	6.	ug/l	75	76	55-129	1	30
t-Amyl methyl ether	N.D.	0.5	ug/l	91	95	75-120	4	30
Benzene	N.D.	0.5	ug/l	94	98	78-120	4	30
Bromobenzene	N.D.	1.	ug/l	94	95	80-120	2	30
Bromochloromethane	N.D.	1.	ug/l	96	98	80-121	2	30
Bromodichloromethane	N.D.	0.5	ug/l	92	97	73-120	5	30
Bromoform	N.D.	0.5	ug/l	88	88	61-120	1	30
Bromomethane	N.D.	0.5	ug/l	86	87	53-130	2	30
2-Butanone	N.D.	3.	ug/l	87	91	54-133	4	30
t-Butyl alcohol	N.D.	5.	ug/l	104	104	75-120	0	30
n-Butylbenzene	N.D.	1.	ug/l	88	90	68-120	2	30
sec-Butylbenzene	N.D.	1.	ug/l	90	92	75-120	2	30
tert-Butylbenzene	N.D.	1.	ug/l	93	92	80-120	0	30
Carbon Disulfide	N.D.	1.	ug/l	79	81	58-126	3	30
Carbon Tetrachloride	N.D.	0.5	ug/l	99	103	74-130	4	30
Chlorobenzene	N.D.	0.5	ug/l	95	98	80-120	3	30
Chloroethane	N.D.	0.5	ug/l	76	80	56-120	5	30
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	88	95	62-128	8	30
Chloroform	N.D.	0.5	ug/l	100	102	80-122	3	30
Chloromethane	N.D.	0.5	ug/l	78	87	63-120	10	30
2-Chlorotoluene	N.D.	1.	ug/l	91	92	80-120	1	30
4-Chlorotoluene	N.D.	1.	ug/l	93	95	80-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	84	88	56-120	5	30
Dibromochloromethane	N.D.	0.5	ug/l	97	99	72-120	2	30
1,2-Dibromoethane	N.D.	0.5	ug/l	96	100	80-120	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibromomethane	N.D.	0.5	ug/l	95	100	80-120	5	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	94	96	80-120	2	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	92	94	80-120	2	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	93	95	80-120	2	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	87	89	55-127	2	30
1,1-Dichloroethane	N.D.	0.5	ug/l	93	96	80-120	4	30
1,2-Dichloroethane	N.D.	0.5	ug/l	100	102	65-135	2	30
1,1-Dichloroethene	N.D.	0.5	ug/l	93	95	76-124	2	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	97	101	80-120	4	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	99	102	80-120	3	30
1,2-Dichloropropane	N.D.	0.5	ug/l	92	97	80-120	5	30
1,3-Dichloropropane	N.D.	0.5	ug/l	93	97	80-120	4	30
2,2-Dichloropropane	N.D.	0.5	ug/l	100	103	67-124	3	30
1,1-Dichloropropene	N.D.	1.	ug/l	98	103	80-126	5	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	96	99	80-120	3	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	97	100	76-120	3	30
Ethanol	N.D.	50.	ug/l	92	94	58-139	2	30
Ethyl t-butyl ether	N.D.	0.5	ug/l	87	93	69-120	6	30
Ethylbenzene	N.D.	0.5	ug/l	94	97	79-120	3	30
Freon 113	N.D.	2.	ug/l	87	90	67-127	3	30
Hexachlorobutadiene	N.D.	2.	ug/l	76	80	51-125	5	30
2-Hexanone	N.D.	3.	ug/l	90	93	57-127	4	30
di-Isopropyl ether	N.D.	0.5	ug/l	91	95	61-132	5	30
Isopropylbenzene	N.D.	1.	ug/l	94	98	80-120	4	30
p-Isopropyltoluene	N.D.	1.	ug/l	89	91	76-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	90	95	75-120	6	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	88	92	51-124	4	30
Methylene Chloride	N.D.	2.	ug/l	91	97	80-120	6	30
Naphthalene	N.D.	1.	ug/l	88	92	47-126	4	30
n-Propylbenzene	N.D.	1.	ug/l	92	94	80-120	3	30
Styrene	N.D.	1.	ug/l	95	97	80-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	99	102	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	90	91	70-120	1	30
Tetrachloroethene	N.D.	0.5	ug/l	100	101	80-120	2	30
Toluene	N.D.	0.5	ug/l	96	97	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	87	90	68-123	3	30
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	90	94	73-120	4	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	88	90	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	94	95	80-120	1	30
Trichloroethene	N.D.	0.5	ug/l	98	101	80-120	3	30
Trichlorofluoromethane	N.D.	0.5	ug/l	93	98	58-135	5	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	93	95	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	92	94	80-120	3	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	92	94	80-120	2	30
Vinyl Chloride	N.D.	0.5	ug/l	81	87	63-120	7	30
m+p-Xylene	N.D.	0.5	ug/l	94	98	80-120	4	30
o-Xylene	N.D.	0.5	ug/l	95	98	80-120	3	30

Batch number: 14284WAJ026

Sample number(s): 7632731,7632736

Acenaphthene	N.D.	0.1	ug/l	100	102	80-112	2	30
Acenaphthylene	N.D.	0.1	ug/l	111	111	84-125	0	30
Anthracene	N.D.	0.1	ug/l	104	103	82-116	1	30
Benzo(a)anthracene	N.D.	0.1	ug/l	100	106	81-126	5	30
Benzo(a)pyrene	N.D.	0.1	ug/l	93	100	82-116	7	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	103	111	82-121	8	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	95	106	76-128	12	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(k)fluoranthene	N.D.	0.1	ug/l	95	103	81-122	8	30
Chrysene	N.D.	0.1	ug/l	102	109	81-120	6	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	104	114	80-130	9	30
Fluoranthene	N.D.	0.1	ug/l	107	107	82-121	1	30
Fluorene	N.D.	0.1	ug/l	107	107	80-117	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	98	106	80-126	8	30
Naphthalene	N.D.	0.1	ug/l	95	95	75-108	0	30
Phenanthrene	N.D.	0.1	ug/l	95	95	81-114	0	30
Pyrene	N.D.	0.1	ug/l	100	100	81-112	1	30

Batch number: 14286SLD026 Sample number(s): 7632732-7632735,7632737-7632744,7632746-7632748

Acenaphthene	N.D.	0.003	mg/kg	104		83-111		
Acenaphthylene	N.D.	0.003	mg/kg	116		83-127		
Anthracene	N.D.	0.003	mg/kg	108		82-118		
Benzo(a)anthracene	N.D.	0.003	mg/kg	107		76-119		
Benzo(a)pyrene	N.D.	0.003	mg/kg	102		84-122		
Benzo(b)fluoranthene	N.D.	0.003	mg/kg	105		78-129		
Benzo(g,h,i)perylene	N.D.	0.003	mg/kg	107		77-121		
Benzo(k)fluoranthene	N.D.	0.003	mg/kg	102		79-120		
Chrysene	N.D.	0.003	mg/kg	111		77-116		
Dibenz(a,h)anthracene	N.D.	0.003	mg/kg	111		81-123		
Fluoranthene	N.D.	0.003	mg/kg	106		75-118		
Fluorene	N.D.	0.003	mg/kg	108		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	mg/kg	106		76-122		
Naphthalene	N.D.	0.003	mg/kg	103		77-115		
Phenanthrene	N.D.	0.003	mg/kg	105		80-114		
Pyrene	N.D.	0.003	mg/kg	104		81-114		

Batch number: 14287WAG026 Sample number(s): 7632745

Acenaphthene	N.D.	0.1	ug/l	99	100	80-112	0	30
Acenaphthylene	N.D.	0.1	ug/l	111	111	84-125	0	30
Anthracene	N.D.	0.1	ug/l	103	103	82-116	0	30
Benzo(a)anthracene	N.D.	0.1	ug/l	102	102	81-126	0	30
Benzo(a)pyrene	N.D.	0.1	ug/l	103	103	82-116	0	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	109	111	82-121	1	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	109	109	76-128	0	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	104	104	81-122	0	30
Chrysene	N.D.	0.1	ug/l	104	105	81-120	0	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	110	111	80-130	1	30
Fluoranthene	N.D.	0.1	ug/l	106	105	82-121	1	30
Fluorene	N.D.	0.1	ug/l	106	106	80-117	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	106	106	80-126	0	30
Naphthalene	N.D.	0.1	ug/l	95	95	75-108	0	30
Phenanthrene	N.D.	0.1	ug/l	94	95	81-114	1	30
Pyrene	N.D.	0.1	ug/l	101	102	81-112	1	30

Batch number: 14287A16A Sample number(s): 7632732-7632735,7632737-7632744,7632746-7632748

TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	107	113	73-120	6	30
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Batch number: 14288A20A Sample number(s): 7632731,7632736,7632745

TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	102	104	80-139	2	30
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Batch number: 142870029A Sample number(s): 7632732-7632735,7632737-7632744,7632746-7632748

TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	94		81-121		
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Batch number: 142860009A Sample number(s): 7632731,7632736,7632745

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
TPH-DRO CA C10-C28	N.D.	50.	ug/l	79	78	56-114	2	20	
Batch number: 142831848002 Sample number(s): 7632731									
Aluminum	N.D.	67.4	ug/l	102		90-112			
Barium	N.D.	0.33	ug/l	102		90-110			
Boron	N.D.	4.6	ug/l	101		90-110			
Cadmium	N.D.	0.33	ug/l	104		90-112			
Calcium	41.9	J 33.4	ug/l	101		90-112			
Chromium	N.D.	1.3	ug/l	102		90-110			
Copper	N.D.	2.8	ug/l	103		90-112			
Iron	N.D.	33.4	ug/l	101		90-112			
Lead	N.D.	4.7	ug/l	105		88-116			
Magnesium	N.D.	16.7	ug/l	101		89-110			
Manganese	N.D.	0.83	ug/l	105		90-110			
Molybdenum	N.D.	1.7	ug/l	104		90-110			
Nickel	N.D.	1.6	ug/l	106		90-117			
Phosphorus	N.D.	5.0	ug/l	103		90-110			
Silicon	26.0	J 19.5	ug/l	105		80-120			
Silver	N.D.	1.8	ug/l	102		80-120			
Sodium	N.D.	167.	ug/l	102		87-114			
Sulfur	N.D.	19.2	ug/l	96		90-112			
Tin	N.D.	2.4	ug/l	101		90-110			
Titanium	N.D.	1.7	ug/l	105		90-113			
Vanadium	N.D.	1.9	ug/l	107		90-110			
Zinc	N.D.	2.0	ug/l	103		90-110			
Batch number: 142871848001 Sample number(s): 7632736,7632745									
Aluminum	N.D.	67.4	ug/l	103		90-112			
Barium	N.D.	0.33	ug/l	101		90-110			
Boron	10.9	J 4.6	ug/l	98		90-110			
Cadmium	0.39	J 0.33	ug/l	103		90-112			
Calcium	120	J 33.4	ug/l	104		90-112			
Chromium	N.D.	1.3	ug/l	102		90-110			
Copper	N.D.	2.8	ug/l	104		90-112			
Iron	N.D.	33.4	ug/l	103		90-112			
Lead	N.D.	4.7	ug/l	107		88-116			
Magnesium	20.4	J 16.7	ug/l	101		89-110			
Manganese	N.D.	0.83	ug/l	101		90-110			
Molybdenum	N.D.	1.7	ug/l	105		90-110			
Nickel	N.D.	1.6	ug/l	105		90-117			
Phosphorus	N.D.	5.0	ug/l	101		90-110			
Silicon	N.D.	19.5	ug/l	104		80-120			
Silver	N.D.	1.8	ug/l	86		80-120			
Sodium	N.D.	167.	ug/l	101		87-114			
Sulfur	N.D.	19.2	ug/l	97		90-112			
Tin	N.D.	2.4	ug/l	102		90-110			
Titanium	N.D.	1.7	ug/l	104		90-113			
Vanadium	N.D.	1.9	ug/l	105		90-110			
Zinc	2.3	J 2.0	ug/l	102		90-110			
Batch number: 142875708001 Sample number(s): 7632732-7632735,7632737-7632744,7632746-7632748									
Aluminum	6.49	J 4.54	mg/kg	106		80-120			
Barium	N.D.	0.0330	mg/kg	101		80-120			
Boron	N.D.	0.840	mg/kg	96		80-120			
Cadmium	N.D.	0.0330	mg/kg	100		80-120			
Calcium	15.7	J 3.79	mg/kg	105		80-120			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chromium	N.D.	0.110	mg/kg	99		80-120		
Copper	N.D.	0.330	mg/kg	102		80-120		
Iron	N.D.	3.34	mg/kg	102		80-120		
Lead	N.D.	0.500	mg/kg	102		80-120		
Magnesium	5.19 J	1.67	mg/kg	103		80-120		
Manganese	N.D.	0.0830	mg/kg	101		80-120		
Molybdenum	N.D.	0.170	mg/kg	102		80-120		
Nickel	N.D.	0.150	mg/kg	104		80-120		
Phosphorus	1.47 J	0.320	mg/kg	103		80-120		
Silicon	2.14 J	1.63	mg/kg	102		80-120		
Silver	N.D.	0.190	mg/kg	97		80-120		
Sodium	N.D.	16.7	mg/kg	101		80-120		
Sulfur	N.D.	1.12	mg/kg	100		80-120		
Tin	1.41 J	0.430	mg/kg	101		80-120		
Titanium	N.D.	0.170	mg/kg	103		80-120		
Vanadium	N.D.	0.0910	mg/kg	102		80-120		
Zinc	0.910 J	0.260	mg/kg	103		80-120		

Batch number: 14295659801A Sample number(s): 7632732-7632735,7632737-7632741
HEM-SGT-Solids N.D. 200. mg/kg 77 72-111

Batch number: 14296659801A Sample number(s): 7632742-7632744,7632746-7632748
HEM-SGT-Solids N.D. 200. mg/kg 83 72-111

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 14286SLD026	Sample number(s): 7632732-7632735,7632737-7632744,7632746-7632748 UNSPK: 7632732								
Acenaphthene	93	99	55-132	6	30				
Acenaphthylene	105	110	53-143	5	30				
Anthracene	101	104	42-147	3	30				
Benzo(a)anthracene	95	99	32-150	4	30				
Benzo(a)pyrene	93	100	36-151	7	30				
Benzo(b)fluoranthene	101	98	29-150	4	30				
Benzo(g,h,i)perylene	93	103	41-147	10	30				
Benzo(k)fluoranthene	93	98	35-146	6	30				
Chrysene	98	102	28-146	4	30				
Dibenz(a,h)anthracene	96	105	54-142	9	30				
Fluoranthene	100	105	41-135	5	30				
Fluorene	100	108	55-128	8	30				
Indeno(1,2,3-cd)pyrene	91	100	44-147	9	30				
Naphthalene	95	98	44-142	3	30				
Phenanthrene	98	101	42-141	3	30				
Pyrene	95	98	37-140	4	30				
Batch number: 142870029A	Sample number(s): 7632732-7632735,7632737-7632744,7632746-7632748 UNSPK: 7632732								
TPH-DRO soil C10-C28 microwave	93		35-129			N.D.	N.D.	0 (1)	20

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 142831848002 Sample number(s): 7632731 UNSPK: P629209 BKG: P629209									
Aluminum	105	107	75-125	2	20	N.D.	N.D.	0 (1)	20
Barium	107	106	78-125	1	20	353	337	5	20
Boron	88	90	82-117	1	20	3,980	3,810	4	20
Cadmium	91	90	75-122	0	20	N.D.	N.D.	0 (1)	20
Calcium	-69 (2)	131 (2)	75-125	1	20	597,000	640,000	7	20
Chromium	93	93	76-120	1	20	6.2 J	5.5 J	11 (1)	20
Copper	109	107	86-122	1	20	N.D.	N.D.	0 (1)	20
Iron	93	101	75-125	5	20	448	422	6 (1)	20
Lead	95	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Magnesium	-879 (2)	-78 (2)	75-125	1	20	1,320,000	1,400,000	6	20
Manganese	72 (2)	74 (2)	75-125	0	20	3,490	3,360	4	20
Molybdenum	103	104	89-117	0	20	9.1 J	4.3 J	72* (1)	20
Nickel	91	90	79-123	0	20	8.7 J	8.7 J	0 (1)	20
Phosphorus	87 (2)	96 (2)	90-120	2	20	4,040	3,800	6	20
Silicon	-3 (2)	107 (2)	83-123	5	20	22,100	20,800	6	20
Silver	113	115	75-125	2	20	N.D.	N.D.	0 (1)	20
Sodium	-5989 (2)	-513 (2)	76-125	6	20	9,870,000	12,000,000	19	20
Sulfur	-900 (2)	-1446 (2)	84-125	2	20	361,000	386,000	7	20
Tin	95	95	81-116	0	20	N.D.	N.D.	0 (1)	20
Titanium	104	104	90-115	0	20	5.5 J	5.3 J	4 (1)	20
Vanadium	104	105	90-123	1	20	2.1 J	N.D.	200* (1)	20
Zinc	102	103	80-125	1	20	3.4 J	3.3 J	4 (1)	20
Batch number: 142871848001 Sample number(s): 7632736, 7632745 UNSPK: 7632736 BKG: 7632736									
Aluminum	439 (2)	408 (2)	75-125	2	20	26,800	27,300	2	20
Barium	103	103	78-125	0	20	402	401	0	20
Boron	101	99	82-117	2	20	1,190	1,180	1	20
Cadmium	99	98	75-122	1	20	N.D.	N.D.	0 (1)	20
Calcium	92 (2)	64 (2)	75-125	1	20	90,400	89,400	1	20
Chromium	103	101	76-120	1	20	52.5	53.7	2 (1)	20
Copper	108	106	86-122	1	20	86.7	86.9	0	20
Iron	215 (2)	150 (2)	75-125	2	20	29,900	30,300	1	20
Lead	91	89	75-125	2	20	9.6 J	7.1 J	30* (1)	20
Magnesium	102 (2)	85 (2)	75-125	1	20	45,200	45,000	1	20
Manganese	98 (2)	87 (2)	75-125	1	20	3,370	3,360	0	20
Molybdenum	105	104	89-117	1	20	17.8	16.3	9 (1)	20
Nickel	101	101	79-123	0	20	77.9	79.7	2	20
Phosphorus	104	103	90-120	1	20	137	161	16 (1)	20
Silicon	1190 (2)	1002 (2)	83-123	2	20	73,900	74,500	1	20
Silver	90	88	75-125	2	20	N.D.	N.D.	0 (1)	20
Sodium	15 (2)	41 (2)	76-125	2	20	113,000	109,000	4	20
Sulfur	96 (2)	79 (2)	84-125	1	20	11,900	11,900	0	20
Tin	102	102	81-116	0	20	N.D.	N.D.	0 (1)	20
Titanium	121*	120*	90-115	0	20	559	573	2	20
Vanadium	106	104	90-123	1	20	198	200	1	20
Zinc	101	100	80-125	1	20	67.2	68.2	1 (1)	20

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 142875708001	Sample number(s): 7632732-7632735, 7632737-7632744, 7632746-7632748 UNSPK: 7632735 BKG: 7632735								
Aluminum	2339 (2)	1603 (2)	75-125	6	20	22,600	20,400	10	20
Barium	107	106	75-125	1	20	52.9	60.7	14	20
Boron	96	97	84-110	1	20	40.3	39.8	1	20
Cadmium	70*	58*	75-120	19	20	N.D.	N.D.	0 (1)	20
Calcium	-597 (2)	-925 (2)	75-125	12	20	14,200	10,600	29*	20
Chromium	143*	190*	75-125	10	20	56.8	55.5	2	20
Copper	168*	155*	75-125	3	20	73.8	77.0	4	20
Iron	21027 (2)	30405 (2)	75-125	8	20	92,300	91,700	1	20
Lead	78	75	75-125	4	20	N.D.	N.D.	0 (1)	20
Magnesium	585 (2)	399 (2)	75-125	5	20	7,020	7,010	0	20
Manganese	373 (2)	560 (2)	75-125	10	20	683	767	12	20
Molybdenum	94	93	82-110	1	20	1.72	0.806 J	72* (1)	20
Nickel	102	105	75-125	2	20	21.6	22.4	4	20
Phosphorus	99	99	75-125	0	20	57.8	73.7	24* (1)	20
Silicon	83 (2)	138 (2)	75-125	5	20	921	1,120	20	20
Silver	49*	49*	75-125	2	20	N.D.	N.D.	0 (1)	20
Sodium	107	107	75-125	0	20	342	343	0 (1)	20
Sulfur	69*	66*	80-120	2	20	33.5 J	11.1 J	100* (1)	20
Tin	79	79	75-110	1	20	38.0	11.1 J	110* (1)	20
Titanium	814 (2)	924 (2)	75-125	4	20	1,560	1,540	2	20
Vanadium	558 (2)	818 (2)	75-125	12	20	782	820	5	20
Zinc	128*	130*	75-125	1	20	43.7	45.8	5	20
Batch number: 14295659801A HEM-SGT-Solids	Sample number(s): 7632732-7632735, 7632737-7632741 UNSPK: P626883 BKG: P626883 90 87 22-125 3 20 N.D. N.D. 0 (1) 20								
Batch number: 14296659801A HEM-SGT-Solids	Sample number(s): 7632742-7632744, 7632746-7632748 UNSPK: 7632742 BKG: 7632742 80 78 22-125 2 20 N.D. N.D. 0 (1) 20								

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Full List + Sep Xylenes
Batch number: B142861AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7632732	104	102	98	99
7632733	102	98	99	97
7632734	104	100	99	97
7632735	107	105	97	98
7632737	101	99	99	97
7632738	105	97	100	95
7632739	103	100	98	97

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

Surrogate Quality Control

7632740	104	101	98	95
7632741	105	102	100	100
7632742	107	107	97	100
7632743	106	101	99	96
7632744	108	109	96	97
7632746	105	98	100	96
7632747	106	100	98	94
7632748	106	97	99	94
Blank	101	103	99	98
LCS	102	105	103	109
LCSD	102	101	104	105
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Full List w/ Sep. Xylenes
Batch number: W142862AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7632731	104	102	97	97
7632736	102	102	96	97
7632745	101	100	98	96
Blank	101	101	97	96
LCS	102	101	100	101
LCSD	103	101	99	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs 8270C Water
Batch number: 14284WAJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7632731	90	92	64
7632736	84	85	43
Blank	92	94	63
LCS	94	94	55
LCSD	95	94	93
Limits:	60-123	67-116	40-147

Analysis Name: PAH's 8270C Soil
Batch number: 14286SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7632732	87	93	112
7632733	85	91	110
7632734	89	100	111
7632735	90	104	119
7632737	85	92	113
7632738	86	97	111
7632739	86	95	112
7632740	82	88	107
7632741	84	94	110
7632742	85	96	107
7632743	84	97	106
7632744	85	95	113
7632746	87	93	110
7632747	86	95	112
7632748	85	95	108
Blank	89	102	119
LCS	94	105	120
MS	88	94	111
MSD	89	98	114

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

Surrogate Quality Control

Limits: 54-123 63-124 61-142

Analysis Name: PAHs 8270C Water
Batch number: 14287WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7632745	97	94	70
Blank	92	85	37*
LCS	102	100	107
LCSD	101	100	105
Limits:	60-123	67-116	40-147

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14287A16A

	Trifluorotoluene-F
7632732	83
7632733	85
7632734	90
7632735	83
7632737	93
7632738	81
7632739	83
7632740	83
7632741	82
7632742	82
7632743	82
7632744	87
7632746	82
7632747	86
7632748	80
Blank	95
LCS	101
LCSD	92
Limits:	50-142

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14288A20A

	Trifluorotoluene-F
7632731	85
7632736	87
7632745	85
Blank	88
LCS	88
LCSD	88
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 142860009A

	Orthoterphenyl
7632731	75
7632736	76
7632745	81
Blank	88
LCS	99
LCSD	95
Limits:	58-137

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:56 PM

Group Number: 1510124

Surrogate Quality Control

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142870029A

Orthoterphenyl

7632732	97
7632733	96
7632734	97
7632735	101
7632737	92
7632738	95
7632739	92
7632740	88
7632741	92
7632742	94
7632743	96
7632744	90
7632746	88
7632747	96
7632748	97
Blank	103
DUP	97
LCS	102
MS	102

Limits: 54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 13534

For Lancaster Laboratories use only
 Group # 1510134 Sample # 7030731-48
Instructions on reverse side correspond with circled numbers.

00 100914-01 10f3

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks			
Facility # <u>Chevron # 373378 Phillips 66 # 5677</u> Site Address <u>7600 MacArthur Blvd Oakland CA</u> Chevron PM <u>Jillian Holloway</u> Lead Consultant <u>CRA</u> Consultant/Office <u>Rancho</u> Consultant Project Mgr. <u>David Herzog</u> Consultant Phone # <u>916 889 8902</u> Sampler _____				Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/>				Total Number of Containers _____ BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH 8015 MOD DRO _____ Silica Gel Cleanup _____ 8260 Full Scan _____ Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____ <u>TOG by 1668</u> <u>PAHs by 8270</u> <u>Wear Metals by 6010</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits			
2 Sample Identification		3 Composite												6 Remarks							
		Collected		Grab	Soil	Water	Oil	Total	BTEX + MTBE	TPH GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead	TOG by 1668	PAHs by 8270	Wear Metals by 6010		
Date	Time	Composite	Remarks																	Remarks	
<u>MW-3</u>	<u>10/7/14</u>	<u>930</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-35'</u>	<u>10/7/14</u>	<u>1100</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH5-10'</u>	<u>10/7/14</u>	<u>1215</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH5-15'</u>	<u>10/7/14</u>	<u>1245</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH5-20'</u>		<u>100</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>MW-1</u>	<u>10/7/14</u>	<u>245</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH5-30'</u>		<u>300</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH5-35'</u>		<u>400</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH4-10</u>	<u>10/8/14</u>	<u>850</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH4-15</u>		<u>910</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH4-20</u>		<u>955</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH4-25</u>		<u>1035</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>BH4-30</u>		<u>1135</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7 Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> Standard 5 day 4 day 72 hour 48 hour 24 hour				Relinquished by <u>[Signature]</u> Date <u>10/8/14</u> Time <u>1450</u>				Received by <u>[Signature]</u> Date <u>10/8/14</u> Time <u>1450</u>				9									
8 Data Package Options (please circle if required) Type I - Full Type VI (Raw Data)				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____				Received by <u>[Signature]</u> Date <u>10/10/14</u> Time <u>920</u>				Temperature Upon Receipt <u>0.316</u> °C Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 13534

For Lancaster Laboratories use only
 Group # 1501510124 Sample # 7630731-48
 Instructions on reverse side correspond with circled numbers.

100914-01 2013

JA 10/01/14

1 Client Information				4 Matrix				5 Analyses Requested										6 Remarks		
Facility # <u>Chevron 373378 Phillips 66 5677</u> Site Address <u>7600 MacArthur Blvd Oakland CA</u> Chevron PM <u>Jillian Holloway</u> Lead Consultant <u>CRA</u> Consultant/Office <u>10969 Trade center Dr #107 Rancho Cordova CA</u> Consultant Project Mgr. <u>David Herzog</u> Consultant Phone # <u>916-889-8902</u> Sampler <u>B. Sumner</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil				Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH 8015 MOD DRO Silica Gel Cleanup 8260 Full Scan Oxygenates Total Lead Method Dissolved Lead Method <u>TOG 1664A</u> <u>PAHs by 8270</u> <u>Wear metals by 8010</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits		
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	TPH GRO 8015	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	TOG 1664A	PAHs by 8270	Wear metals by 8010
Date	Time																			
<u>BH4-35</u>	<u>10-8-14</u>	<u>1200</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BH5</u>		<u>1315</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>1</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BH6-10</u>		<u>1315</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BH6-15</u>		<u>1325</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BH6-20</u>		<u>1435</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<u>1</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7 Turnaround Time Requested (TAT) (please circle) Standard <input checked="" type="radio"/> 5 day <input type="radio"/> 4 day 72 hour <input type="radio"/> 48 hour <input type="radio"/> 24 hour				Relinquished by <u>[Signature]</u> Date <u>10-8-14</u> Time <u>1450</u> Relinquished by <u>[Signature]</u> Date <u>10-01-14</u> Time <u>1630</u>				Received by <u>[Signature]</u> Date <u>10/8/14</u> Time <u>1450</u> Received by <u>FEDEX</u> Date _____ Time _____				9								
8 Data Package Options (please circle if required) Type I - Full <input type="checkbox"/> Type VI (Raw Data) <input type="checkbox"/>				Relinquished by Commercial Carrier: UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other <input type="checkbox"/>				Received by <u>[Signature]</u> Date <u>10/01/14</u> Time <u>920</u>				Temperature Upon Receipt <u>0.316</u> °C Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

October 27, 2014

Project: 373378 Tidewater Oakland

Submittal Date: 10/11/2014
Group Number: 1510330
PO Number: 4072862
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
BH6-S-25-141008 Grab Soil	7633949
BH6-S-30-141008 Grab Soil	7633950
BH4-W-141008 Grab Water	7633951
BH3-S-10-141008 Grab Soil	7633952
BH3-S-15-141008 Grab Soil	7633953
BH3-S-20-141008 Grab Soil	7633954
BH3-S-25-141008 Grab Soil	7633955
BH3-S-30-141008 Grab Soil	7633956

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: David Herzog

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: BH6-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633949
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 15:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH625

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.99
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	Bromobenzene	108-86-1	N.D.	0.001	0.99
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.99
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.99
10237	Bromoform	75-25-2	N.D.	0.001	0.99
10237	Bromomethane	74-83-9	N.D.	0.002	0.99
10237	2-Butanone	78-93-3	N.D.	0.004	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.99
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.99
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.99
10237	Chloroethane	75-00-3	N.D.	0.002	0.99
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.99
10237	Chloroform	67-66-3	N.D.	0.001	0.99
10237	Chloromethane	74-87-3	N.D.	0.002	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.99
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.99
10237	Dibromomethane	74-95-3	N.D.	0.001	0.99
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.99
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.99
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Freon 113	76-13-1	N.D.	0.002	0.99
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.99
10237	2-Hexanone	591-78-6	N.D.	0.003	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.99

Sample Description: BH6-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633949
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 15:00 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH625

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.99
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.99
10237	Styrene	100-42-5	N.D.	0.001	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.99
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.99
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.99
10237	o-Xylene	95-47-6	N.D.	0.001	0.99
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.46
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: BH6-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633949
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 15:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/11/2014 10:30 Suite 107
Reported: 10/27/2014 16:57 Rancho Cordova CA 95670

BH625

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	26,300	4.45	1
06946	Barium	7440-39-3	72.1	0.0324	1
07914	Boron	7440-42-8	17.1	0.824	1
06949	Cadmium	7440-43-9	0.686 J	0.162	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	10,600	3.72	1
06951	Chromium	7440-47-3	29.2	0.108	1
06953	Copper	7440-50-8	108	0.324	1
01654	Iron	7439-89-6	42,100	16.4	5
06955	Lead	7439-92-1	N.D.	0.490	1
01657	Magnesium	7439-95-4	11,300	1.64	1
06958	Manganese	7439-96-5	760	0.0814	1
06960	Molybdenum	7439-98-7	N.D.	0.167	1
06961	Nickel	7440-02-0	24.7	0.147	1
10145	Phosphorus	7723-14-0	61.5	0.314	1
12763	Silicon	7440-21-3	1,510	1.60	1
06966	Silver	7440-22-4	N.D.	0.186	1
01667	Sodium	7440-23-5	497	16.4	1
12003	Sulfur	7704-34-9	3.26 J	1.10	1
06969	Tin	7440-31-5	1.82 J	0.422	1
06970	Titanium	7440-32-6	634	0.167	1
06971	Vanadium	7440-62-2	201	0.0892	1
06972	Zinc	7440-66-6	41.5	0.255	1
Wet Chemistry			mg/kg	mg/kg	
SW-846 9071B mod					
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 14:43	Chelsea B Stong	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:25	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/19/2014 01:26	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1

Sample Description: BH6-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633949
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 15:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30
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BH625

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 07:59	Miranda P Tillinghast	24.46
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:26	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 14:11	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 16:42	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/20/2014 16:42	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:26	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH6-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633950
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH630

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.95
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.95
10237	Benzene	71-43-2	N.D.	0.0005	0.95
10237	Bromobenzene	108-86-1	N.D.	0.0009	0.95
10237	Bromochloromethane	74-97-5	N.D.	0.0009	0.95
10237	Bromodichloromethane	75-27-4	N.D.	0.0009	0.95
10237	Bromoform	75-25-2	N.D.	0.0009	0.95
10237	Bromomethane	74-83-9	N.D.	0.002	0.95
10237	2-Butanone	78-93-3	N.D.	0.004	0.95
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.95
10237	n-Butylbenzene	104-51-8	N.D.	0.0009	0.95
10237	sec-Butylbenzene	135-98-8	N.D.	0.0009	0.95
10237	tert-Butylbenzene	98-06-6	N.D.	0.0009	0.95
10237	Carbon Disulfide	75-15-0	N.D.	0.0009	0.95
10237	Carbon Tetrachloride	56-23-5	N.D.	0.0009	0.95
10237	Chlorobenzene	108-90-7	N.D.	0.0009	0.95
10237	Chloroethane	75-00-3	N.D.	0.002	0.95
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.95
10237	Chloroform	67-66-3	N.D.	0.0009	0.95
10237	Chloromethane	74-87-3	N.D.	0.002	0.95
10237	2-Chlorotoluene	95-49-8	N.D.	0.0009	0.95
10237	4-Chlorotoluene	106-43-4	N.D.	0.0009	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.95
10237	Dibromochloromethane	124-48-1	N.D.	0.0009	0.95
10237	1,2-Dibromoethane	106-93-4	N.D.	0.0009	0.95
10237	Dibromomethane	74-95-3	N.D.	0.0009	0.95
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.0009	0.95
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.0009	0.95
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.0009	0.95
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.95
10237	1,1-Dichloroethane	75-34-3	N.D.	0.0009	0.95
10237	1,2-Dichloroethane	107-06-2	N.D.	0.0009	0.95
10237	1,1-Dichloroethene	75-35-4	N.D.	0.0009	0.95
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.95
10237	1,2-Dichloropropane	78-87-5	N.D.	0.0009	0.95
10237	1,3-Dichloropropane	142-28-9	N.D.	0.0009	0.95
10237	2,2-Dichloropropane	594-20-7	N.D.	0.0009	0.95
10237	1,1-Dichloropropene	563-58-6	N.D.	0.0009	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0009	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0009	0.95
10237	Ethanol	64-17-5	N.D.	0.095	0.95
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.95
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.95
10237	Freon 113	76-13-1	N.D.	0.002	0.95
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.95
10237	2-Hexanone	591-78-6	N.D.	0.003	0.95
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.95
10237	Isopropylbenzene	98-82-8	N.D.	0.0009	0.95
10237	p-Isopropyltoluene	99-87-6	N.D.	0.0009	0.95

Sample Description: BH6-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633950
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH630

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.95
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.95
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.95
10237	Naphthalene	91-20-3	N.D.	0.0009	0.95
10237	n-Propylbenzene	103-65-1	N.D.	0.0009	0.95
10237	Styrene	100-42-5	N.D.	0.0009	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.0009	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0009	0.95
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.95
10237	Toluene	108-88-3	N.D.	0.0009	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.0009	0.95
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.0009	0.95
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.0009	0.95
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.0009	0.95
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.95
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.95
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.0009	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.0009	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.0009	0.95
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.95
10237	m+p-Xylene	179601-23-1	N.D.	0.0009	0.95
10237	o-Xylene	95-47-6	N.D.	0.0009	0.95
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.93
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: BH6-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633950
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/11/2014 10:30 Suite 107
Reported: 10/27/2014 16:57 Rancho Cordova CA 95670

BH630

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	20,400	4.37	1
06946	Barium	7440-39-3	95.0	0.0317	1
07914	Boron	7440-42-8	15.3	0.808	1
06949	Cadmium	7440-43-9	0.577 J	0.159	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	6,110	3.64	1
06951	Chromium	7440-47-3	47.9	0.106	1
06953	Copper	7440-50-8	67.8	0.317	1
01654	Iron	7439-89-6	35,800	16.1	5
06955	Lead	7439-92-1	1.86	0.481	1
01657	Magnesium	7439-95-4	8,310	1.61	1
06958	Manganese	7439-96-5	874	0.399	5
06960	Molybdenum	7439-98-7	N.D.	0.163	1
06961	Nickel	7440-02-0	52.5	0.144	1
10145	Phosphorus	7723-14-0	106	0.308	1
12763	Silicon	7440-21-3	844	1.57	1
06966	Silver	7440-22-4	N.D.	0.183	1
01667	Sodium	7440-23-5	370	16.1	1
12003	Sulfur	7704-34-9	2.87 J	1.08	1
06969	Tin	7440-31-5	1.48 J	0.413	1
06970	Titanium	7440-32-6	436	0.163	1
06971	Vanadium	7440-62-2	151	0.0875	1
06972	Zinc	7440-66-6	48.3	0.250	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 15:05	Chelsea B Stong	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:29	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/19/2014 02:43	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1

Sample Description: BH6-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633950
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30
Reported: 10/27/2014 16:57

BH630

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 08:37	Miranda P Tillinghast	24.93
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:30	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 05:44	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 16:46	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/20/2014 16:46	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/20/2014 16:46	Eric L Eby	5
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:37	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: **BH4-W-141008 Grab Water**
 Facility# **373378 CRAW**
 7600 MacArthur Blv-Oakland T10000003434

LL Sample # **WW 7633951**
 LL Group # **1510330**
 Account # **13534**

Project Name: **373378 Tidewater Oakland**

Collected: 10/08/2014 16:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH4--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	29	6	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	4	3	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethanol	64-17-5	N.D.	50	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Freon 113	76-13-1	N.D.	2	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1

Sample Description: **BH4-W-141008 Grab Water**
 Facility# **373378 CRAW**
 7600 MacArthur Blv-Oakland T10000003434

LL Sample # **WW 7633951**
 LL Group # **1510330**
 Account # **13534**

Project Name: **373378 Tidewater Oakland**

Collected: 10/08/2014 16:30 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH4--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	Naphthalene	91-20-3	N.D.	1	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS Semivolatiles SW-846 8270C			ug/l	ug/l	
07805	Acenaphthene	83-32-9	N.D.	0.1	1
07805	Acenaphthylene	208-96-8	N.D.	0.1	1
07805	Anthracene	120-12-7	N.D.	0.1	1
07805	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
07805	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
07805	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
07805	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
07805	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
07805	Chrysene	218-01-9	N.D.	0.1	1
07805	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
07805	Fluoranthene	206-44-0	N.D.	0.1	1
07805	Fluorene	86-73-7	N.D.	0.1	1
07805	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
07805	Naphthalene	91-20-3	N.D.	0.1	1
07805	Phenanthrene	85-01-8	N.D.	0.1	1
07805	Pyrene	129-00-0	N.D.	0.1	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

GC Volatiles SW-846 8015B ug/l ug/l

Sample Description: BH4-W-141008 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7633951
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:30 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH4--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles					
01728	TPH-GRO N. CA water	SW-846 8015B C6-C12 n.a.	ug/l N.D.	ug/l 50	1
GC Petroleum Hydrocarbons					
06609	TPH-DRO CA C10-C28	SW-846 8015B n.a.	ug/l 620	ug/l 50	1
Metals					
01743	Aluminum	SW-846 6010B 7429-90-5	ug/l 74,900	ug/l 67.4	1
07046	Barium	7440-39-3	915	0.33	1
08014	Boron	7440-42-8	218	4.6	1
07049	Cadmium	7440-43-9	N.D.	0.33	1
01750	Calcium	7440-70-2	152,000	33.4	1
07051	Chromium	7440-47-3	178	1.3	1
07053	Copper	7440-50-8	199	2.8	1
01754	Iron	7439-89-6	77,100	33.4	1
07055	Lead	7439-92-1	15.4	4.7	1
01757	Magnesium	7439-95-4	73,800	16.7	1
07058	Manganese	7439-96-5	4,760	0.83	1
07060	Molybdenum	7439-98-7	26.7	1.7	1
07061	Nickel	7440-02-0	262	1.6	1
10143	Phosphorus	7723-14-0	642	5.0	1
01765	Silicon	7440-21-3	83,400	19.5	1
07066	Silver	7440-22-4	N.D.	1.8	1
01767	Sodium	7440-23-5	50,500	167	1
12004	Sulfur	7704-34-9	13,400	19.2	1
07069	Tin	7440-31-5	4.6 J	2.4	1
07070	Titanium	7440-32-6	1,460	1.7	1
07071	Vanadium	7440-62-2	412	1.9	1
07072	Zinc	7440-66-6	186	2.0	1

General Sample Comments

CA ELAP Lab Certification No. 2792
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W142901AA	10/17/2014 17:20	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W142901AA	10/17/2014 17:20	Angela D Sneeringer	1
07805	PAHs 8270C Water	SW-846 8270C	1	14287WAG026	10/16/2014 12:35	Brian K Graham	1

Sample Description: BH4-W-141008 Grab Water
Facility# 373378 CRAW
 7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7633951
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:30 by BS

Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Suite 107
 Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH4--

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07807	BNA Water Extraction	SW-846 3510C	1	14287WAG026	10/14/2014 20:00	Nicholas W Shroyer	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	14288A20A	10/15/2014 16:36	Miranda P Tillinghast	1
01146	GC VOA Water Prep	SW-846 5030B	1	14288A20A	10/15/2014 16:36	Miranda P Tillinghast	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	142860009A	10/14/2014 21:04	Christine E Dolman	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	142860009A	10/13/2014 18:50	Samantha L Bronder	1
01743	Aluminum	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
08014	Boron	SW-846 6010B	1	142871848004	10/18/2014 11:04	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
01750	Calcium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
01754	Iron	SW-846 6010B	1	142871848004	10/18/2014 11:04	Eric L Eby	1
07055	Lead	SW-846 6010B	1	142871848004	10/18/2014 11:04	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07060	Molybdenum	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
10143	Phosphorus	SW-846 6010B	1	142871848004	10/20/2014 22:16	Elaine F Stoltzfus	1
01765	Silicon	SW-846 6010B	1	142871848004	10/18/2014 11:04	Eric L Eby	1
07066	Silver	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
01767	Sodium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
12004	Sulfur	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07069	Tin	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07070	Titanium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07071	Vanadium	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010B	1	142871848004	10/16/2014 00:30	Elaine F Stoltzfus	1

Sample Description: BH4-W-141008 Grab Water
 Facility# 373378 CRAW
 7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 7633951
 LL Group # 1510330
 Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:30 by BS Conestoga-Rovers & Associates
 10969 Trade Center Drive
 Submitted: 10/11/2014 10:30 Suite 107
 Reported: 10/27/2014 16:57 Rancho Cordova CA 95670

BH4--

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	142871848004	10/15/2014 10:36	Micaela L Dishong	1

Sample Description: BH3-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633952
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:55 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	0.99
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.99
10237	Benzene	71-43-2	N.D.	0.0005	0.99
10237	Bromobenzene	108-86-1	N.D.	0.001	0.99
10237	Bromochloromethane	74-97-5	N.D.	0.001	0.99
10237	Bromodichloromethane	75-27-4	N.D.	0.001	0.99
10237	Bromoform	75-25-2	N.D.	0.001	0.99
10237	Bromomethane	74-83-9	N.D.	0.002	0.99
10237	2-Butanone	78-93-3	N.D.	0.004	0.99
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	0.99
10237	n-Butylbenzene	104-51-8	N.D.	0.001	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	0.99
10237	Carbon Disulfide	75-15-0	N.D.	0.001	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.99
10237	Chlorobenzene	108-90-7	N.D.	0.001	0.99
10237	Chloroethane	75-00-3	N.D.	0.002	0.99
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.99
10237	Chloroform	67-66-3	N.D.	0.001	0.99
10237	Chloromethane	74-87-3	N.D.	0.002	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.99
10237	Dibromochloromethane	124-48-1	N.D.	0.001	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	0.99
10237	Dibromomethane	74-95-3	N.D.	0.001	0.99
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.99
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.99
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.99
10237	Ethanol	64-17-5	N.D.	0.099	0.99
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.99
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.99
10237	Freon 113	76-13-1	N.D.	0.002	0.99
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.99
10237	2-Hexanone	591-78-6	N.D.	0.003	0.99
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	0.99
10237	Isopropylbenzene	98-82-8	N.D.	0.001	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	0.99

Sample Description: BH3-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633952
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:55 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.99
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.99
10237	Naphthalene	91-20-3	N.D.	0.001	0.99
10237	n-Propylbenzene	103-65-1	N.D.	0.001	0.99
10237	Styrene	100-42-5	N.D.	0.001	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.99
10237	Tetrachloroethene	127-18-4	N.D.	0.001	0.99
10237	Toluene	108-88-3	N.D.	0.001	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	0.99
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.99
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.99
10237	Trichloroethene	79-01-6	N.D.	0.001	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	0.99
10237	Vinyl Chloride	75-01-4	N.D.	0.001	0.99
10237	m+p-Xylene	179601-23-1	N.D.	0.001	0.99
10237	o-Xylene	95-47-6	N.D.	0.001	0.99
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.85
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: BH3-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633952
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:55 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/11/2014 10:30 Suite 107
Reported: 10/27/2014 16:57 Rancho Cordova CA 95670

BH310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
		SW-846 6010B			
01643	Aluminum	7429-90-5	14,200	4.54	1
06946	Barium	7440-39-3	61.5	0.0330	1
07914	Boron	7440-42-8	12.3	0.840	1
06949	Cadmium	7440-43-9	0.378 J	0.0660	2
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	3,050	3.79	1
06951	Chromium	7440-47-3	39.1	0.110	1
06953	Copper	7440-50-8	38.0	0.330	1
01654	Iron	7439-89-6	26,300	3.34	1
06955	Lead	7439-92-1	2.39	0.500	1
01657	Magnesium	7439-95-4	4,600	1.67	1
06958	Manganese	7439-96-5	480	0.0830	1
06960	Molybdenum	7439-98-7	N.D.	0.170	1
06961	Nickel	7440-02-0	31.5	0.150	1
10145	Phosphorus	7723-14-0	78.9	0.320	1
12763	Silicon	7440-21-3	791	1.63	1
06966	Silver	7440-22-4	N.D.	0.190	1
01667	Sodium	7440-23-5	174	16.7	1
12003	Sulfur	7704-34-9	16.7 J	1.12	1
06969	Tin	7440-31-5	2.09 J	0.430	1
06970	Titanium	7440-32-6	414	0.170	1
06971	Vanadium	7440-62-2	109	0.0910	1
06972	Zinc	7440-66-6	30.2	0.260	1
Wet Chemistry			mg/kg	mg/kg	
		SW-846 9071B mod			
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 15:27	Chelsea B Stong	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:33	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/19/2014 03:08	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1

Sample Description: BH3-S-10-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633952
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 16:55 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH310

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14287A16A	10/15/2014 09:14	Miranda P Tillinghast	24.85
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:34	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 06:06	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 16:50	Eric L Eby	2
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:41	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH3-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633953
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:25 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH3-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633953
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:25 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.25
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: BH3-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633953
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:25 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH315

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,900	4.50	1
06946	Barium	7440-39-3	79.9	0.0327	1
07914	Boron	7440-42-8	13.0	0.832	1
06949	Cadmium	7440-43-9	0.653 J	0.163	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	3,820	3.75	1
06951	Chromium	7440-47-3	45.9	0.109	1
06953	Copper	7440-50-8	50.8	0.327	1
01654	Iron	7439-89-6	32,400	16.5	5
06955	Lead	7439-92-1	2.05	0.495	1
01657	Magnesium	7439-95-4	5,650	1.65	1
06958	Manganese	7439-96-5	570	0.0822	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	47.2	0.149	1
10145	Phosphorus	7723-14-0	78.7	0.317	1
12763	Silicon	7440-21-3	967	1.61	1
06966	Silver	7440-22-4	N.D.	0.188	1
01667	Sodium	7440-23-5	181	16.5	1
12003	Sulfur	7704-34-9	10.4 J	1.11	1
06969	Tin	7440-31-5	2.42 J	0.426	1
06970	Titanium	7440-32-6	470	0.168	1
06971	Vanadium	7440-62-2	187	0.0901	1
06972	Zinc	7440-66-6	31.5	0.257	1
Wet Chemistry			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 15:49	Chelsea B Stong	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 17:59	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/19/2014 03:33	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1

Sample Description: BH3-S-15-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633953
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:25 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30
Reported: 10/27/2014 16:57

BH315

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 20:49	Miranda P Tillinghast	25.25
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:00	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870029A	10/18/2014 06:28	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870029A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 17:01	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/20/2014 17:01	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:44	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH3-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633954
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:35 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH320

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1.01
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1.01
10237	Benzene	71-43-2	N.D.	0.0005	1.01
10237	Bromobenzene	108-86-1	N.D.	0.001	1.01
10237	Bromochloromethane	74-97-5	N.D.	0.001	1.01
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1.01
10237	Bromoform	75-25-2	N.D.	0.001	1.01
10237	Bromomethane	74-83-9	N.D.	0.002	1.01
10237	2-Butanone	78-93-3	N.D.	0.004	1.01
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1.01
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1.01
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1.01
10237	Chlorobenzene	108-90-7	N.D.	0.001	1.01
10237	Chloroethane	75-00-3	N.D.	0.002	1.01
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1.01
10237	Chloroform	67-66-3	N.D.	0.001	1.01
10237	Chloromethane	74-87-3	N.D.	0.002	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1.01
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1.01
10237	Dibromomethane	74-95-3	N.D.	0.001	1.01
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1.01
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1.01
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1.01
10237	Ethanol	64-17-5	N.D.	0.10	1.01
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	1.01
10237	Freon 113	76-13-1	N.D.	0.002	1.01
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1.01
10237	2-Hexanone	591-78-6	N.D.	0.003	1.01
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1.01
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1.01

Sample Description: BH3-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633954
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:35 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH320

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1.01
10237	Methylene Chloride	75-09-2	N.D.	0.002	1.01
10237	Naphthalene	91-20-3	N.D.	0.001	1.01
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1.01
10237	Styrene	100-42-5	N.D.	0.001	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1.01
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1.01
10237	Toluene	108-88-3	N.D.	0.001	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1.01
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1.01
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1.01
10237	Trichloroethene	79-01-6	N.D.	0.001	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1.01
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1.01
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1.01
10237	o-Xylene	95-47-6	N.D.	0.001	1.01
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	24.41
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	10 J	3.9	1

Sample Description: BH3-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633954
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:35 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH320

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,200	4.41	1
06946	Barium	7440-39-3	65.9	0.0320	1
07914	Boron	7440-42-8	18.8	0.816	1
06949	Cadmium	7440-43-9	0.879 J	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	9,770	3.68	1
06951	Chromium	7440-47-3	111	0.107	1
06953	Copper	7440-50-8	101	0.320	1
01654	Iron	7439-89-6	44,300	16.2	5
06955	Lead	7439-92-1	0.744 J	0.485	1
01657	Magnesium	7439-95-4	15,200	1.62	1
06958	Manganese	7439-96-5	719	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	69.2	0.146	1
10145	Phosphorus	7723-14-0	68.7	0.311	1
12763	Silicon	7440-21-3	2,120	1.58	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	369	16.2	1
12003	Sulfur	7704-34-9	9.45 J	1.09	1
06969	Tin	7440-31-5	1.27 J	0.417	1
06970	Titanium	7440-32-6	788	0.165	1
06971	Vanadium	7440-62-2	226	0.0883	1
06972	Zinc	7440-66-6	40.2	0.252	1
Wet Chemistry SW-846 9071B mod			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 16:12	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:06	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/19/2014 03:58	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1

Sample Description: BH3-S-20-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633954
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 17:35 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH320

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 21:27	Miranda P Tillinghast	24.41
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:07	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870030A	10/18/2014 19:25	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870030A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 17:05	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/20/2014 17:05	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:48	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH3-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633955
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:00 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH325

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.007	1
10237	t-Amyl methyl ether	994-05-8	N.D.	0.001	1
10237	Benzene	71-43-2	N.D.	0.0005	1
10237	Bromobenzene	108-86-1	N.D.	0.001	1
10237	Bromochloromethane	74-97-5	N.D.	0.001	1
10237	Bromodichloromethane	75-27-4	N.D.	0.001	1
10237	Bromoform	75-25-2	N.D.	0.001	1
10237	Bromomethane	74-83-9	N.D.	0.002	1
10237	2-Butanone	78-93-3	N.D.	0.004	1
10237	t-Butyl alcohol	75-65-0	N.D.	0.020	1
10237	n-Butylbenzene	104-51-8	N.D.	0.001	1
10237	sec-Butylbenzene	135-98-8	N.D.	0.001	1
10237	tert-Butylbenzene	98-06-6	N.D.	0.001	1
10237	Carbon Disulfide	75-15-0	N.D.	0.001	1
10237	Carbon Tetrachloride	56-23-5	N.D.	0.001	1
10237	Chlorobenzene	108-90-7	N.D.	0.001	1
10237	Chloroethane	75-00-3	N.D.	0.002	1
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	1
10237	Chloroform	67-66-3	N.D.	0.001	1
10237	Chloromethane	74-87-3	N.D.	0.002	1
10237	2-Chlorotoluene	95-49-8	N.D.	0.001	1
10237	4-Chlorotoluene	106-43-4	N.D.	0.001	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	1
10237	Dibromochloromethane	124-48-1	N.D.	0.001	1
10237	1,2-Dibromoethane	106-93-4	N.D.	0.001	1
10237	Dibromomethane	74-95-3	N.D.	0.001	1
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	1
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	1
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	1
10237	1,1-Dichloroethane	75-34-3	N.D.	0.001	1
10237	1,2-Dichloroethane	107-06-2	N.D.	0.001	1
10237	1,1-Dichloroethene	75-35-4	N.D.	0.001	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	1
10237	1,2-Dichloropropane	78-87-5	N.D.	0.001	1
10237	1,3-Dichloropropane	142-28-9	N.D.	0.001	1
10237	2,2-Dichloropropane	594-20-7	N.D.	0.001	1
10237	1,1-Dichloropropene	563-58-6	N.D.	0.001	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	1
10237	Ethanol	64-17-5	N.D.	0.10	1
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.001	1
10237	Ethylbenzene	100-41-4	N.D.	0.001	1
10237	Freon 113	76-13-1	N.D.	0.002	1
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	1
10237	2-Hexanone	591-78-6	N.D.	0.003	1
10237	di-Isopropyl ether	108-20-3	N.D.	0.001	1
10237	Isopropylbenzene	98-82-8	N.D.	0.001	1
10237	p-Isopropyltoluene	99-87-6	N.D.	0.001	1

Sample Description: BH3-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633955
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH325

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	1
10237	Methylene Chloride	75-09-2	N.D.	0.002	1
10237	Naphthalene	91-20-3	N.D.	0.001	1
10237	n-Propylbenzene	103-65-1	N.D.	0.001	1
10237	Styrene	100-42-5	N.D.	0.001	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	1
10237	Tetrachloroethene	127-18-4	N.D.	0.001	1
10237	Toluene	108-88-3	N.D.	0.001	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	1
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	1
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	1
10237	Trichloroethene	79-01-6	N.D.	0.001	1
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	1
10237	Vinyl Chloride	75-01-4	N.D.	0.001	1
10237	m+p-Xylene	179601-23-1	N.D.	0.001	1
10237	o-Xylene	95-47-6	N.D.	0.001	1
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.33
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: BH3-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633955
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:00 by BS Conestoga-Rovers & Associates
10969 Trade Center Drive
Submitted: 10/11/2014 10:30 Suite 107
Reported: 10/27/2014 16:57 Rancho Cordova CA 95670

BH325

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,500	4.41	1
06946	Barium	7440-39-3	72.5	0.0320	1
07914	Boron	7440-42-8	18.1	0.816	1
06949	Cadmium	7440-43-9	0.718 J	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	13,000	3.68	1
06951	Chromium	7440-47-3	33.8	0.107	1
06953	Copper	7440-50-8	103	0.320	1
01654	Iron	7439-89-6	42,800	16.2	5
06955	Lead	7439-92-1	0.650 J	0.485	1
01657	Magnesium	7439-95-4	10,400	1.62	1
06958	Manganese	7439-96-5	590	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	25.9	0.146	1
10145	Phosphorus	7723-14-0	56.2	0.311	1
12763	Silicon	7440-21-3	892	1.58	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	456	16.2	1
12003	Sulfur	7704-34-9	6.87 J	1.09	1
06969	Tin	7440-31-5	1.49 J	0.417	1
06970	Titanium	7440-32-6	488	0.165	1
06971	Vanadium	7440-62-2	199	0.0883	1
06972	Zinc	7440-66-6	42.0	0.252	1
Wet Chemistry			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 16:34	Chelsea B Stong	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:39	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:11	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/19/2014 04:24	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1

Sample Description: BH3-S-25-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633955
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:00 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH325

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 22:05	Miranda P Tillinghast	25.33
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:12	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870030A	10/18/2014 18:41	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870030A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 16:18	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/20/2014 16:18	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:03	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Sample Description: BH3-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633956
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:30 by BS

Conestoga-Rovers & Associates

10969 Trade Center Drive

Submitted: 10/11/2014 10:30

Suite 107

Reported: 10/27/2014 16:57

Rancho Cordova CA 95670

BH330

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Acetone	67-64-1	N.D.	0.006	0.93
10237	t-Amyl methyl ether	994-05-8	N.D.	0.0009	0.93
10237	Benzene	71-43-2	N.D.	0.0005	0.93
10237	Bromobenzene	108-86-1	N.D.	0.0009	0.93
10237	Bromochloromethane	74-97-5	N.D.	0.0009	0.93
10237	Bromodichloromethane	75-27-4	N.D.	0.0009	0.93
10237	Bromoform	75-25-2	N.D.	0.0009	0.93
10237	Bromomethane	74-83-9	N.D.	0.002	0.93
10237	2-Butanone	78-93-3	N.D.	0.004	0.93
10237	t-Butyl alcohol	75-65-0	N.D.	0.019	0.93
10237	n-Butylbenzene	104-51-8	N.D.	0.0009	0.93
10237	sec-Butylbenzene	135-98-8	N.D.	0.0009	0.93
10237	tert-Butylbenzene	98-06-6	N.D.	0.0009	0.93
10237	Carbon Disulfide	75-15-0	N.D.	0.0009	0.93
10237	Carbon Tetrachloride	56-23-5	N.D.	0.0009	0.93
10237	Chlorobenzene	108-90-7	N.D.	0.0009	0.93
10237	Chloroethane	75-00-3	N.D.	0.0003	0.93
10237	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	0.93
10237	Chloroform	67-66-3	N.D.	0.0009	0.93
10237	Chloromethane	74-87-3	N.D.	0.002	0.93
10237	2-Chlorotoluene	95-49-8	N.D.	0.0009	0.93
10237	4-Chlorotoluene	106-43-4	N.D.	0.0009	0.93
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	0.93
10237	Dibromochloromethane	124-48-1	N.D.	0.0009	0.93
10237	1,2-Dibromoethane	106-93-4	N.D.	0.0009	0.93
10237	Dibromomethane	74-95-3	N.D.	0.0009	0.93
10237	1,2-Dichlorobenzene	95-50-1	N.D.	0.0009	0.93
10237	1,3-Dichlorobenzene	541-73-1	N.D.	0.0009	0.93
10237	1,4-Dichlorobenzene	106-46-7	N.D.	0.0009	0.93
10237	Dichlorodifluoromethane	75-71-8	N.D.	0.002	0.93
10237	1,1-Dichloroethane	75-34-3	N.D.	0.0009	0.93
10237	1,2-Dichloroethane	107-06-2	N.D.	0.0009	0.93
10237	1,1-Dichloroethene	75-35-4	N.D.	0.0009	0.93
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0009	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0009	0.93
10237	1,2-Dichloropropane	78-87-5	N.D.	0.0009	0.93
10237	1,3-Dichloropropane	142-28-9	N.D.	0.0009	0.93
10237	2,2-Dichloropropane	594-20-7	N.D.	0.0009	0.93
10237	1,1-Dichloropropene	563-58-6	N.D.	0.0009	0.93
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.0009	0.93
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.0009	0.93
10237	Ethanol	64-17-5	N.D.	0.093	0.93
10237	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	0.93
10237	Ethylbenzene	100-41-4	N.D.	0.0009	0.93
10237	Freon 113	76-13-1	N.D.	0.002	0.93
10237	Hexachlorobutadiene	87-68-3	N.D.	0.002	0.93
10237	2-Hexanone	591-78-6	N.D.	0.003	0.93
10237	di-Isopropyl ether	108-20-3	N.D.	0.0009	0.93
10237	Isopropylbenzene	98-82-8	N.D.	0.0009	0.93
10237	p-Isopropyltoluene	99-87-6	N.D.	0.0009	0.93

Sample Description: BH3-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633956
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:30 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH330

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			mg/kg	mg/kg	
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	0.93
10237	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	0.93
10237	Methylene Chloride	75-09-2	N.D.	0.002	0.93
10237	Naphthalene	91-20-3	N.D.	0.0009	0.93
10237	n-Propylbenzene	103-65-1	N.D.	0.0009	0.93
10237	Styrene	100-42-5	N.D.	0.0009	0.93
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.0009	0.93
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.0009	0.93
10237	Tetrachloroethene	127-18-4	N.D.	0.0009	0.93
10237	Toluene	108-88-3	N.D.	0.0009	0.93
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.0009	0.93
10237	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.0009	0.93
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.0009	0.93
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.0009	0.93
10237	Trichloroethene	79-01-6	N.D.	0.0009	0.93
10237	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.93
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.0009	0.93
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.0009	0.93
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.0009	0.93
10237	Vinyl Chloride	75-01-4	N.D.	0.0009	0.93
10237	m+p-Xylene	179601-23-1	N.D.	0.0009	0.93
10237	o-Xylene	95-47-6	N.D.	0.0009	0.93
GC/MS Semivolatiles SW-846 8270C			mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.003	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	1
10724	Anthracene	120-12-7	N.D.	0.003	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	1
10724	Chrysene	218-01-9	N.D.	0.003	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	1
10724	Fluoranthene	206-44-0	N.D.	0.003	1
10724	Fluorene	86-73-7	N.D.	0.003	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	1
10724	Naphthalene	91-20-3	N.D.	0.003	1
10724	Phenanthrene	85-01-8	N.D.	0.003	1
10724	Pyrene	129-00-0	N.D.	0.003	1
GC Volatiles SW-846 8015B modified			mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-C12	n.a.	N.D.	0.5	25.03
GC Miscellaneous SW-846 8015B			mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	N.D.	3.9	1

Sample Description: BH3-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633956
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:30 by BS

Conestoga-Rovers & Associates

Submitted: 10/11/2014 10:30

10969 Trade Center Drive

Reported: 10/27/2014 16:57

Suite 107

Rancho Cordova CA 95670

BH330

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,800	4.41	1
06946	Barium	7440-39-3	77.0	0.0320	1
07914	Boron	7440-42-8	13.0	0.816	1
06949	Cadmium	7440-43-9	0.515 J	0.160	5
Reporting limits were raised due to interference from the sample matrix.					
01650	Calcium	7440-70-2	6,700	3.68	1
06951	Chromium	7440-47-3	43.9	0.107	1
06953	Copper	7440-50-8	67.1	0.320	1
01654	Iron	7439-89-6	33,500	16.2	5
06955	Lead	7439-92-1	2.04	0.485	1
01657	Magnesium	7439-95-4	8,840	1.62	1
06958	Manganese	7439-96-5	661	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.165	1
06961	Nickel	7440-02-0	50.2	0.146	1
10145	Phosphorus	7723-14-0	98.6	0.311	1
12763	Silicon	7440-21-3	550	1.58	1
06966	Silver	7440-22-4	N.D.	0.184	1
01667	Sodium	7440-23-5	381	16.2	1
12003	Sulfur	7704-34-9	7.27 J	1.09	1
06969	Tin	7440-31-5	1.64 J	0.417	1
06970	Titanium	7440-32-6	206	0.165	1
06971	Vanadium	7440-62-2	134	0.0883	1
06972	Zinc	7440-66-6	47.0	0.252	1
Wet Chemistry			mg/kg	mg/kg	
06598	HEM-SGT-Solids	n.a.	N.D.	200	1

General Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 Full List + Sep Xylenes	SW-846 8260B	1	B142891AA	10/16/2014 16:56	Chelsea B Stong	0.93
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:40	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201428435857	10/11/2014 18:40	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:15	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14286SLE026	10/20/2014 08:48	Linda M Hartenstine	1

Sample Description: BH3-S-30-141008 Grab Soil
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # SW 7633956
LL Group # 1510330
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 10/08/2014 18:30 by BS

Conestoga-Rovers & Associates
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 10/11/2014 10:30

Reported: 10/27/2014 16:57

BH330

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10814	BNA Soil Microwave PAH	SW-846 3546	1	14286SLE026	10/14/2014 03:30	Sherry L Morrow	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	14288A16A	10/15/2014 22:42	Miranda P Tillinghast	25.03
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201428435857	10/11/2014 18:16	Mitchell R Washel	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	142870030A	10/18/2014 19:03	Glorines Suarez-Rivera	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	142870030A	10/15/2014 07:40	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06946	Barium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
07914	Boron	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010B	1	142875708002	10/20/2014 17:09	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06951	Chromium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06953	Copper	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
01654	Iron	SW-846 6010B	1	142875708002	10/20/2014 17:09	Eric L Eby	5
06955	Lead	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
01657	Magnesium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06958	Manganese	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06960	Molybdenum	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06961	Nickel	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
10145	Phosphorus	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
12763	Silicon	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06966	Silver	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
01667	Sodium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
12003	Sulfur	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06969	Tin	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06970	Titanium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
06972	Zinc	SW-846 6010B	1	142875708002	10/17/2014 18:52	Katlin N Cataldi	1
05708	SW SW846 ICP/ICP MS Digest	SW-846 3050B	1	142875708002	10/14/2014 20:24	Annamaria Kuhns	1
06598	HEM-SGT-Solids	SW-846 9071B mod	1	14296659801A	10/26/2014 05:00	Yolunder Y Bunch	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B142891AA	Sample number(s): 7633949-7633950,7633952-7633956							
Acetone	N.D.	0.007	mg/kg	122	108	53-141	12	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	93	89	63-130	4	30
Benzene	N.D.	0.0005	mg/kg	97	97	80-120	0	30
Bromobenzene	N.D.	0.001	mg/kg	95	94	78-120	2	30
Bromochloromethane	N.D.	0.001	mg/kg	103	99	80-128	4	30
Bromodichloromethane	N.D.	0.001	mg/kg	96	96	75-120	0	30
Bromoform	N.D.	0.001	mg/kg	93	89	70-126	5	30
Bromomethane	N.D.	0.002	mg/kg	96	95	32-162	2	30
2-Butanone	N.D.	0.004	mg/kg	101	90	62-123	11	30
t-Butyl alcohol	N.D.	0.020	mg/kg	104	103	72-125	1	30
n-Butylbenzene	N.D.	0.001	mg/kg	102	100	72-120	2	30
sec-Butylbenzene	N.D.	0.001	mg/kg	105	104	69-120	0	30
tert-Butylbenzene	N.D.	0.001	mg/kg	97	95	75-120	2	30
Carbon Disulfide	N.D.	0.001	mg/kg	88	88	63-128	1	30
Carbon Tetrachloride	N.D.	0.001	mg/kg	104	102	69-130	2	30
Chlorobenzene	N.D.	0.001	mg/kg	98	98	80-120	0	30
Chloroethane	N.D.	0.002	mg/kg	90	88	17-171	1	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/kg	95	91	64-124	5	30
Chloroform	N.D.	0.001	mg/kg	104	101	80-125	2	30
Chloromethane	N.D.	0.002	mg/kg	92	92	56-120	0	30
2-Chlorotoluene	N.D.	0.001	mg/kg	98	96	78-120	2	30
4-Chlorotoluene	N.D.	0.001	mg/kg	98	97	79-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/kg	107	95	59-122	11	30
Dibromochloromethane	N.D.	0.001	mg/kg	100	97	77-120	3	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	102	97	80-120	5	30
Dibromomethane	N.D.	0.001	mg/kg	97	92	80-120	5	30
1,2-Dichlorobenzene	N.D.	0.001	mg/kg	97	97	80-120	0	30
1,3-Dichlorobenzene	N.D.	0.001	mg/kg	93	93	80-120	0	30
1,4-Dichlorobenzene	N.D.	0.001	mg/kg	96	93	80-120	4	30
Dichlorodifluoromethane	N.D.	0.002	mg/kg	110	106	26-137	3	30
1,1-Dichloroethane	N.D.	0.001	mg/kg	96	95	80-122	1	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	104	104	77-130	0	30
1,1-Dichloroethene	N.D.	0.001	mg/kg	105	100	73-129	5	30
cis-1,2-Dichloroethene	N.D.	0.001	mg/kg	99	98	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.001	mg/kg	106	102	80-129	4	30
1,2-Dichloropropane	N.D.	0.001	mg/kg	90	90	80-120	0	30
1,3-Dichloropropane	N.D.	0.001	mg/kg	98	96	80-120	2	30
2,2-Dichloropropane	N.D.	0.001	mg/kg	100	98	72-123	2	30
1,1-Dichloropropene	N.D.	0.001	mg/kg	103	100	80-126	3	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/kg	91	94	74-120	3	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/kg	98	98	76-120	0	30
Ethanol	N.D.	0.10	mg/kg	69	80	46-146	16	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	93	91	70-122	3	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethylbenzene	N.D.	0.001	mg/kg	100	98	80-120	2	30
Freon 113	N.D.	0.002	mg/kg	96	95	64-137	1	30
Hexachlorobutadiene	N.D.	0.002	mg/kg	103	101	46-130	2	30
2-Hexanone	N.D.	0.003	mg/kg	103	92	51-120	12	30
di-Isopropyl ether	N.D.	0.001	mg/kg	90	87	77-123	3	30
Isopropylbenzene	N.D.	0.001	mg/kg	103	102	76-120	1	30
p-Isopropyltoluene	N.D.	0.001	mg/kg	100	99	69-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	104	97	76-122	7	30
4-Methyl-2-pentanone	N.D.	0.003	mg/kg	92	82	57-123	11	30
Methylene Chloride	N.D.	0.002	mg/kg	104	100	80-124	4	30
Naphthalene	N.D.	0.001	mg/kg	94	88	64-120	6	30
n-Propylbenzene	N.D.	0.001	mg/kg	104	101	77-120	2	30
Styrene	N.D.	0.001	mg/kg	98	102	76-120	4	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/kg	99	99	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/kg	98	91	71-123	7	30
Tetrachloroethene	N.D.	0.001	mg/kg	99	98	78-120	1	30
Toluene	N.D.	0.001	mg/kg	98	99	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/kg	92	88	64-120	4	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/kg	90	88	68-120	1	30
1,1,1-Trichloroethane	N.D.	0.001	mg/kg	100	98	63-135	2	30
1,1,2-Trichloroethane	N.D.	0.001	mg/kg	101	96	80-120	5	30
Trichloroethene	N.D.	0.001	mg/kg	101	99	80-125	2	30
Trichlorofluoromethane	N.D.	0.002	mg/kg	113	108	58-133	4	30
1,2,3-Trichloropropane	N.D.	0.001	mg/kg	107	99	71-123	7	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/kg	106	104	79-120	2	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/kg	105	104	78-120	1	30
Vinyl Chloride	N.D.	0.001	mg/kg	101	96	59-120	5	30
m+p-Xylene	N.D.	0.001	mg/kg	101	100	80-120	1	30
o-Xylene	N.D.	0.001	mg/kg	98	98	80-120	1	30

Batch number: W142901AA

Sample number(s): 7633951

Acetone	N.D.	6.	ug/l	84		55-129		
t-Amyl methyl ether	N.D.	0.5	ug/l	97		75-120		
Benzene	N.D.	0.5	ug/l	99		78-120		
Bromobenzene	N.D.	1.	ug/l	94		80-120		
Bromochloromethane	N.D.	1.	ug/l	101		80-121		
Bromodichloromethane	N.D.	0.5	ug/l	95		73-120		
Bromoform	N.D.	0.5	ug/l	88		61-120		
Bromomethane	N.D.	0.5	ug/l	94		53-130		
2-Butanone	N.D.	3.	ug/l	92		54-133		
t-Butyl alcohol	N.D.	5.	ug/l	107		75-120		
n-Butylbenzene	N.D.	1.	ug/l	93		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	95		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	95		80-120		
Carbon Disulfide	N.D.	1.	ug/l	84		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	101		74-130		
Chlorobenzene	N.D.	0.5	ug/l	96		80-120		
Chloroethane	N.D.	0.5	ug/l	92		56-120		
2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l	95		62-128		
Chloroform	N.D.	0.5	ug/l	100		80-122		
Chloromethane	N.D.	0.5	ug/l	98		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	95		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	94		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	85		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	94		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	98		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibromomethane	N.D.	0.5	ug/l	97		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	95		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	94		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	95		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	97		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	96		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	96		65-135		
1,1-Dichloroethene	N.D.	0.5	ug/l	99		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	101		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	104		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	96		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	95		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	93		67-124		
1,1-Dichloropropene	N.D.	1.	ug/l	103		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	99		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	98		76-120		
Ethanol	N.D.	50.	ug/l	80		58-139		
Ethyl t-butyl ether	N.D.	0.5	ug/l	92		69-120		
Ethylbenzene	N.D.	0.5	ug/l	95		79-120		
Freon 113	N.D.	2.	ug/l	97		67-127		
Hexachlorobutadiene	2	2.	ug/l	79		51-125		
2-Hexanone	N.D.	3.	ug/l	93		57-127		
di-Isopropyl ether	N.D.	0.5	ug/l	97		61-132		
Isopropylbenzene	N.D.	1.	ug/l	96		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	92		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	96		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	94		51-124		
Methylene Chloride	N.D.	2.	ug/l	99		80-120		
Naphthalene	N.D.	1.	ug/l	92		47-126		
n-Propylbenzene	N.D.	1.	ug/l	95		80-120		
Styrene	N.D.	1.	ug/l	96		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	97		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	94		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	99		80-120		
Toluene	N.D.	0.5	ug/l	98		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	90		68-123		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	93		73-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	90		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	96		80-120		
Trichloroethene	N.D.	0.5	ug/l	100		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	102		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	94		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	95		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	95		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	98		63-120		
m+p-Xylene	N.D.	0.5	ug/l	96		80-120		
o-Xylene	N.D.	0.5	ug/l	96		80-120		

Batch number: 14286SLE026

Sample number(s): 7633949-7633950,7633952-7633956

Acenaphthene	N.D.	0.003	mg/kg	98		83-111		
Acenaphthylene	N.D.	0.003	mg/kg	109		83-127		
Anthracene	N.D.	0.003	mg/kg	105		82-118		
Benzo(a)anthracene	N.D.	0.003	mg/kg	101		76-119		
Benzo(a)pyrene	N.D.	0.003	mg/kg	97		84-122		
Benzo(b)fluoranthene	N.D.	0.003	mg/kg	92		78-129		
Benzo(g,h,i)perylene	N.D.	0.003	mg/kg	100		77-121		

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(k)fluoranthene	N.D.	0.003	mg/kg	97		79-120		
Chrysene	N.D.	0.003	mg/kg	102		77-116		
Dibenz(a,h)anthracene	N.D.	0.003	mg/kg	103		81-123		
Fluoranthene	N.D.	0.003	mg/kg	102		75-118		
Fluorene	N.D.	0.003	mg/kg	101		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	mg/kg	98		76-122		
Naphthalene	N.D.	0.003	mg/kg	97		77-115		
Phenanthrene	N.D.	0.003	mg/kg	101		80-114		
Pyrene	N.D.	0.003	mg/kg	99		81-114		
Batch number: 14287WAG026	Sample number(s): 7633951							
Acenaphthene	N.D.	0.1	ug/l	99	100	80-112	0	30
Acenaphthylene	N.D.	0.1	ug/l	111	111	84-125	0	30
Anthracene	N.D.	0.1	ug/l	103	103	82-116	0	30
Benzo(a)anthracene	N.D.	0.1	ug/l	102	102	81-126	0	30
Benzo(a)pyrene	N.D.	0.1	ug/l	103	103	82-116	0	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	109	111	82-121	1	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	109	109	76-128	0	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	104	104	81-122	0	30
Chrysene	N.D.	0.1	ug/l	104	105	81-120	0	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	110	111	80-130	1	30
Fluoranthene	N.D.	0.1	ug/l	106	105	82-121	1	30
Fluorene	N.D.	0.1	ug/l	106	106	80-117	0	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	106	106	80-126	0	30
Naphthalene	N.D.	0.1	ug/l	95	95	75-108	0	30
Phenanthrene	N.D.	0.1	ug/l	94	95	81-114	1	30
Pyrene	N.D.	0.1	ug/l	101	102	81-112	1	30
Batch number: 14287A16A	Sample number(s): 7633949-7633950,7633952							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	107	113	73-120	6	30
Batch number: 14288A16A	Sample number(s): 7633953-7633956							
TPH-GRO N. CA soil C6-C12	N.D.	0.5	mg/kg	115	112	73-120	2	30
Batch number: 14288A20A	Sample number(s): 7633951							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	102	104	80-139	2	30
Batch number: 142870029A	Sample number(s): 7633949-7633950,7633952-7633953							
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	94		81-121		
Batch number: 142870030A	Sample number(s): 7633954-7633956							
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	93		81-121		
Batch number: 142860009A	Sample number(s): 7633951							
TPH-DRO CA C10-C28	N.D.	50.	ug/l	79	78	56-114	2	20
Batch number: 142871848004	Sample number(s): 7633951							
Aluminum	N.D.	67.4	ug/l	104		90-112		
Barium	N.D.	0.33	ug/l	104		90-110		
Boron	N.D.	4.6	ug/l	92		90-110		
Cadmium	N.D.	0.33	ug/l	104		90-112		
Calcium	43.9	J 33.4	ug/l	102		90-112		
Chromium	N.D.	1.3	ug/l	101		90-110		
Copper	N.D.	2.8	ug/l	105		90-112		
Iron	N.D.	33.4	ug/l	102		90-112		
Lead	N.D.	4.7	ug/l	106		88-116		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Magnesium	24.6 J	16.7	ug/l	102		89-110		
Manganese	N.D.	0.83	ug/l	104		90-110		
Molybdenum	N.D.	1.7	ug/l	104		90-110		
Nickel	N.D.	1.6	ug/l	108		90-117		
Phosphorus	N.D.	5.0	ug/l	104		90-110		
Silicon	N.D.	19.5	ug/l	104		80-120		
Silver	N.D.	1.8	ug/l	98		80-120		
Sodium	N.D.	167.	ug/l	102		87-114		
Sulfur	N.D.	19.2	ug/l	100		90-112		
Tin	N.D.	2.4	ug/l	102		90-110		
Titanium	N.D.	1.7	ug/l	103		90-113		
Vanadium	N.D.	1.9	ug/l	106		90-110		
Zinc	4.3 J	2.0	ug/l	104		90-110		

Batch number: 142875708002

Sample number(s): 7633949-7633950,7633952-7633956

Aluminum	7.40 J	4.54	mg/kg	107		80-120		
Barium	N.D.	0.0330	mg/kg	101		80-120		
Boron	N.D.	0.840	mg/kg	96		80-120		
Cadmium	N.D.	0.0330	mg/kg	101		80-120		
Calcium	11.9 J	3.79	mg/kg	103		80-120		
Chromium	N.D.	0.110	mg/kg	101		80-120		
Copper	N.D.	0.330	mg/kg	102		80-120		
Iron	N.D.	3.34	mg/kg	102		80-120		
Lead	N.D.	0.500	mg/kg	103		80-120		
Magnesium	4.69 J	1.67	mg/kg	105		80-120		
Manganese	N.D.	0.0830	mg/kg	101		80-120		
Molybdenum	N.D.	0.170	mg/kg	104		80-120		
Nickel	N.D.	0.150	mg/kg	104		80-120		
Phosphorus	1.29 J	0.320	mg/kg	102		80-120		
Silicon	1.91 J	1.63	mg/kg	104		80-120		
Silver	N.D.	0.190	mg/kg	96		80-120		
Sodium	N.D.	16.7	mg/kg	104		80-120		
Sulfur	N.D.	1.12	mg/kg	99		80-120		
Tin	1.52 J	0.430	mg/kg	102		80-120		
Titanium	N.D.	0.170	mg/kg	103		80-120		
Vanadium	N.D.	0.0910	mg/kg	103		80-120		
Zinc	0.886 J	0.260	mg/kg	102		80-120		

Batch number: 14296659801A
HEM-SGT-Solids

Sample number(s): 7633949-7633950,7633952-7633956
N.D. 200. mg/kg 83 72-111

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: W142901AA	Sample number(s): 7633951 UNSPK: P636778								
Acetone	78	78	35-144	1	30				
t-Amyl methyl ether	95	97	65-117	2	30				
Benzene	104	105	72-134	1	30				
Bromobenzene	101	104	82-115	3	30				

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Bromochloromethane	98	102	76-134	4	30				
Bromodichloromethane	100	101	73-125	1	30				
Bromoform	92	92	48-118	0	30				
Bromomethane	99	99	47-129	0	30				
2-Butanone	87	88	44-135	1	30				
t-Butyl alcohol	94	101	67-119	7	30				
n-Butylbenzene	99	104	74-134	5	30				
sec-Butylbenzene	103	107	74-137	3	30				
tert-Butylbenzene	102	104	81-121	2	30				
Carbon Disulfide	91	91	53-149	0	30				
Carbon Tetrachloride	110	110	75-148	0	30				
Chlorobenzene	104	105	87-124	1	30				
Chloroethane	95	97	55-130	2	30				
2-Chloroethyl Vinyl Ether	38	33	10-151	15	30				
Chloroform	105	105	81-134	1	30				
Chloromethane	99	97	61-125	2	30				
2-Chlorotoluene	101	104	82-118	2	30				
4-Chlorotoluene	102	104	84-122	2	30				
1,2-Dibromo-3-chloropropane	84	88	50-123	5	30				
Dibromochloromethane	102	102	74-116	0	30				
1,2-Dibromoethane	102	103	77-116	1	30				
Dibromomethane	99	100	83-119	1	30				
1,2-Dichlorobenzene	100	102	84-119	1	30				
1,3-Dichlorobenzene	100	103	86-121	3	30				
1,4-Dichlorobenzene	100	104	85-121	4	30				
Dichlorodifluoromethane	103	104	58-156	1	30				
1,1-Dichloroethane	101	102	84-129	1	30				
1,2-Dichloroethane	98	98	63-142	0	30				
1,1-Dichloroethene	104	109	79-137	3	30				
cis-1,2-Dichloroethene	104 (2)	101 (2)	80-141	1	30				
trans-1,2-Dichloroethene	108	109	86-131	1	30				
1,2-Dichloropropane	100	103	83-124	3	30				
1,3-Dichloropropane	98	99	81-120	1	30				
2,2-Dichloropropane	108	110	69-135	2	30				
1,1-Dichloropropene	112	114	86-137	2	30				
cis-1,3-Dichloropropene	101	104	70-116	3	30				
trans-1,3-Dichloropropene	104	105	74-119	1	30				
Ethanol	69	48*	53-146	35*	30				
Ethyl t-butyl ether	93	93	74-122	1	30				
Ethylbenzene	104	106	71-134	2	30				
Freon 113	108	109	89-148	1	30				
Hexachlorobutadiene	86	93	56-134	8	30				
2-Hexanone	91	93	38-131	2	30				
di-Isopropyl ether	98	99	70-129	1	30				
Isopropylbenzene	106	107	75-128	1	30				
p-Isopropyltoluene	101	103	76-123	2	30				
Methyl Tertiary Butyl Ether	95	96	72-126	1	30				
4-Methyl-2-pentanone	90	91	45-128	1	30				
Methylene Chloride	101	100	78-133	0	30				
Naphthalene	94	97	52-125	3	30				
n-Propylbenzene	104	108	74-134	3	30				
Styrene	104	104	78-125	0	30				

*- Outside of specification

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
1,1,1,2-Tetrachloroethane	105	106	80-123	0	30			
1,1,2,2-Tetrachloroethane	95	97	72-128	2	30			
Tetrachloroethene	111	113	80-128	1	30			
Toluene	102	104	80-125	1	30			
1,2,3-Trichlorobenzene	93	96	62-133	4	30			
1,2,4-Trichlorobenzene	96	99	56-137	3	30			
1,1,1-Trichloroethane	96	97	69-140	1	30			
1,1,2-Trichloroethane	100	101	71-141	1	30			
Trichloroethene	253 (2)	238 (2)	88-133	0	30			
Trichlorofluoromethane	112	112	63-163	0	30			
1,2,3-Trichloropropane	96	99	76-118	3	30			
1,2,4-Trimethylbenzene	102	105	72-130	4	30			
1,3,5-Trimethylbenzene	102	105	65-132	3	30			
Vinyl Chloride	107	106	66-133	1	30			
m+p-Xylene	105	106	79-125	1	30			
o-Xylene	105	104	79-125	1	30			
Batch number: 14286SLE026 Sample number(s): 7633949-7633950,7633952-7633956 UNSPK: 7633949								
Acenaphthene	100	98	55-132	2	30			
Acenaphthylene	109	106	53-143	2	30			
Anthracene	102	101	42-147	1	30			
Benzo(a)anthracene	94	97	32-150	4	30			
Benzo(a)pyrene	98	96	36-151	2	30			
Benzo(b)fluoranthene	103	97	29-150	6	30			
Benzo(g,h,i)perylene	97	97	41-147	0	30			
Benzo(k)fluoranthene	98	100	35-146	2	30			
Chrysene	97	100	28-146	3	30			
Dibenz(a,h)anthracene	100	99	54-142	1	30			
Fluoranthene	98	99	41-135	1	30			
Fluorene	99	99	55-128	0	30			
Indeno(1,2,3-cd)pyrene	94	96	44-147	2	30			
Naphthalene	98	96	44-142	2	30			
Phenanthrene	99	97	42-141	2	30			
Pyrene	95	95	37-140	0	30			
Batch number: 142870029A Sample number(s): 7633949-7633950,7633952-7633953 UNSPK: P632732 BKG: P632732								
TPH-DRO soil C10-C28 microwave	93		35-129		N.D.	N.D.	0 (1)	20
Batch number: 142870030A Sample number(s): 7633954-7633956 UNSPK: 7633954 BKG: 7633954								
TPH-DRO soil C10-C28 microwave	87		35-129		10	J 9.2	J 11 (1)	20
Batch number: 142871848004 Sample number(s): 7633951 UNSPK: P632854 BKG: P632854								
Aluminum	106	107	75-125	1	20	207	201	3 (1) 20
Barium	102	102	78-125	1	20	273	275	1 20
Boron	96	97	82-117	1	20	327	326	0 20
Cadmium	100	102	75-122	1	20	N.D.	N.D.	0 (1) 20
Calcium	-19 (2)	76 (2)	75-125	2	20	207,000	208,000	1 20
Chromium	100	101	76-120	0	20	N.D.	N.D.	0 (1) 20
Copper	106	106	86-122	0	20	N.D.	N.D.	0 (1) 20
Iron	64 (2)	101 (2)	75-125	2	20	15,100	15,200	1 20
Lead	101	102	75-125	1	20	N.D.	N.D.	0 (1) 20
Magnesium	69 (2)	116 (2)	75-125	2	20	43,400	44,100	1 20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Manganese	99	100	75-125	0	20	1,140	1,140	1	20
Molybdenum	105	106	89-117	1	20	4.4 J	3.1 J	34* (1)	20
Nickel	103	104	79-123	1	20	N.D.	N.D.	0 (1)	20
Phosphorus	113	116	90-120	3	20	56.8 J	54.9 J	3 (1)	20
Silicon	97 (2)	119 (2)	83-123	2	20	9,240	9,310	1	20
Silver	100	100	75-125	0	20	N.D.	N.D.	0 (1)	20
Sodium	-24 (2)	-44 (2)	76-125	1	20	241,000	235,000	3	20
Sulfur	39 (2)	125 (2)	84-125	2	20	36,800	37,100	1	20
Tin	102	103	81-116	1	20	N.D.	N.D.	0 (1)	20
Titanium	105	105	90-115	0	20	6.1 J	6.6 J	7 (1)	20
Vanadium	107	108	90-123	1	20	N.D.	N.D.	0 (1)	20
Zinc	102	103	80-125	1	20	7.1 J	7.2 J	1 (1)	20

Batch number: 142875708002	Sample number(s): 7633949-7633950,7633952-7633956				UNSPK: 7633955	BKG: 7633955			
Aluminum	5182 (2)	5842 (2)	75-125	4	20	25,500	26,600	4	20
Barium	103	105	75-125	2	20	72.5	72.7	0	20
Boron	98	99	84-110	1	20	18.1	19.0	5 (1)	20
Cadmium	98	106	75-120	6	20	0.718 J	0.777 J	8 (1)	20
Calcium	-25 (2)	94 (2)	75-125	4	20	13,000	13,500	4	20
Chromium	128*	129*	75-125	0	20	33.8	35.6	5	20
Copper	167 (2)	166 (2)	75-125	0	20	103	105	1	20
Iron	4739 (2)	6695 (2)	75-125	4	20	42,800	45,300	6	20
Lead	94	90	75-125	4	20	0.650 J	N.D.	200* (1)	20
Magnesium	504 (2)	571 (2)	75-125	1	20	10,400	10,300	1	20
Manganese	299 (2)	340 (2)	75-125	3	20	590	615	4	20
Molybdenum	95	95	82-110	0	20	N.D.	N.D.	0 (1)	20
Nickel	105	104	75-125	1	20	25.9	28.2	9	20
Phosphorus	104	105	75-125	1	20	56.2	74.2	28*	20
Silicon	120 (2)	404 (2)	75-125	24*	20	892	1,050	17	20
Silver	95	96	75-125	1	20	N.D.	N.D.	0 (1)	20
Sodium	110	111	75-125	1	20	456	472	3 (1)	20
Sulfur	99	96	80-120	3	20	6.87 J	7.16 J	4 (1)	20
Tin	92	91	75-110	1	20	1.49 J	1.40 J	6 (1)	20
Titanium	413 (2)	464 (2)	75-125	5	20	488	644	28*	20
Vanadium	168 (2)	174 (2)	75-125	1	20	199	212	6	20
Zinc	107	108	75-125	0	20	42.0	44.6	6	20

Batch number: 14296659801A	Sample number(s): 7633949-7633950,7633952-7633956				UNSPK: P632742	BKG: P632742			
HEM-SGT-Solids	80	78	22-125	2	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Full List + Sep Xylenes
Batch number: B142891AA

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7633949	104	103	100	97
7633950	103	101	99	96
7633952	105	101	98	95
7633953	105	99	102	96
7633954	107	101	102	97
7633955	109	108	99	98
7633956	108	110	99	98
Blank	104	104	99	97
LCS	103	106	105	106
LCSD	101	97	105	106
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Full List w/ Sep. Xylenes
Batch number: W142901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7633951	97	98	99	99
Blank	99	98	97	97
LCS	101	107	99	100
MS	99	103	101	99
MSD	100	102	101	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAH's 8270C Soil
Batch number: 14286SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7633949	90	97	110
7633950	89	94	109
7633952	92	101	114
7633953	94	100	109
7633954	89	100	110
7633955	90	97	109
7633956	91	97	109
Blank	95	102	117
LCS	95	101	113
MS	94	99	109
MSD	91	97	109
Limits:	54-123	63-124	61-142

Analysis Name: PAHs 8270C Water
Batch number: 14287WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7633951	92	92	69
Blank	92	85	37*
LCS	102	100	107
LCSD	101	100	105
Limits:	60-123	67-116	40-147

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14287A16A

	Trifluorotoluene-F
7633949	77
7633950	81
7633952	80
Blank	95

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Surrogate Quality Control

LCS 101
LCSD 92
Limits: 50-142

Analysis Name: TPH-GRO N. CA soil C6-C12
Batch number: 14288A16A
Trifluorotoluene-F

7633953 86
7633954 87
7633955 86
7633956 82
Blank 94
LCS 103
LCSD 100
Limits: 50-142

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 14288A20A
Trifluorotoluene-F

7633951 85
Blank 88
LCS 88
LCSD 88
Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 142860009A
Orthoterphenyl

7633951 76
Blank 88
LCS 99
LCSD 95
Limits: 58-137

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142870029A
Orthoterphenyl

7633949 96
7633950 92
7633952 97
7633953 96
Blank 103
DUP 97
LCS 102
MS 102
Limits: 54-145

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 142870030A
Orthoterphenyl

7633954 96
7633955 89
7633956 91
Blank 100
DUP 100

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 10/27/14 at 04:57 PM

Group Number: 1510330

Surrogate Quality Control

LCS	100
MS	95
Limits:	54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



253218

For Lancaster Laboratories use only
 Acct. #: 13534 Sample #: 1510330

SCR#:

Group # (3) met 10/3/14

Sample # 7033949-30

Facility #: Chevron 373378 Phillips 66 5677
 Site Address: 7600 MacArthur Blvd Oakland CA
 Chevron PM: Jillian Holloway Lead Consultant: CRA
 Consultant/Office: 10969 Trade Center Dr #107 Rancho Cordova
 Consultant Prj. Mgr.: David Herzog
 Consultant Phone #: 916-889-8902 Fax #: 916-889-8999
 Sampler: B. Summersett
 Service Order #: _____ Non SAR: _____

Analyses Requested

Preservation Codes

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>	TOG by 10/6/14	PAHS by 8/27/10	Wear metals by 6/10/10
BH6-25	Soil			14 10 08	1500		X		1		X	X	X			X	X	X
BH6-30	Soil				1600		X		1		X	X	X			X	X	X
BH4	Water				1630		X		11		X	X	X			X	X	X
BH3-10	Soil				1655		X		1		X	X	X			X	X	X
BH3-15					1725		X		1		X	X	X			X	X	X
BH3-20					1735		X		1		X	X	X			X	X	X
BH3-25					1800		X		1		X	X	X			X	X	X
BH3-30					1830		X		1		X	X	X			X	X	X

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
 STD 7AT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by:	Date: <u>6-9-14</u>	Time: <u>1300</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: URS <input checked="" type="checkbox"/> FedEx Other _____	Received by:		Date: <u>10-11-14</u>	Time: <u>1030</u>	
Temperature Upon Receipt: <u>3.9</u> °C	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<$ CRDL, but \geq IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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