

P&D ENVIRONMENTAL, INC.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

(510) 658-6916

April 3, 2014
Report 0675.R1

Ms. Kendra Marshall
475 Lesser Street, LLC
731 Sansome Street, 2nd Floor
San Francisco, CA 94111

**SUBJECT: SUBSURFACE INVESTIGATION REPORT
(B1 THROUGH B4)
475 Lesser Street
Oakland, CA 94601**

Dear Ms. Marshall:

P&D Environmental, Inc. (P&D) has prepared this report documenting the drilling of four boreholes designated as B1 through B4 for collection of soil and groundwater samples to investigate subsurface conditions at the subject site. The drilling was performed on March 26, 2014. A Site Location Map is attached as Figure 1 and a Site Aerial Photograph showing the borehole locations is attached as Figure 2. All work was performed under the supervision of a California professional geologist.

BACKGROUND

The following subject site information was obtained from an AllWest Environmental, Inc. September 28, 2012 Environmental Site Assessment. The subject site is a rectangular 0.459-acre parcel developed with four one-story industrial buildings and was previously occupied by Instawhip Tip Top Foods, Inc. (Instawhip). The buildings and a concrete-paved driveway and outdoor service area cover the entire site. Building 1 consists of an office area and former food products processing area, product ingredients mix room, chemical storage room and a receiving area. Building 2 consists of a storage shed, building 3 is a cold storage building consisting of product refrigerator, freezer units and loading docks. Building 4 is a dry goods storage warehouse equipped with raised docks. The site is currently unoccupied except for a maintenance attendant.

It is P&D's understanding that based on historical documents there was a 8,000-gallon diesel underground storage tank (UST) grouted in place on April 9, 1987, and that the associated pump and piping were removed.

FIELD ACTIVITIES

Prior to performing field activities, permit W2014-0276 was obtained from the Alameda County Public Works Agency (ACPWA), drilling locations were marked with white paint, Underground Service Alert was notified for underground utility location, a health and safety plan was prepared, and site access was arranged with the property owner and the tenants. Notification of the drilling dates was also provided to the ACPWA.

On March 26, 2014, P&D personnel oversaw drilling at locations B1 through B4 shown on Figure 2 for the collection of soil and groundwater samples at the subject site. All drilling was performed by Vironex, Inc. of Concord, California by continuously coring using Geoprobe direct push technology to drive a 2.0-inch outside diameter Geoprobe macrocore barrel sampler lined with transparent PVC sleeves. Boreholes B1 through B3 were continuously cored to a total depth of 8 feet below the ground surface (bgs), and borehole B4 was continuously cored to a total depth of 10 feet bgs.

The soil from each of the boreholes was logged in the field in accordance with standard geologic field techniques and the Unified Soil Classification System. All soil from the boreholes was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb and calibrated using a 100 ppm isobutylene standard. No elevated PID values were measured and no odors, staining, or discoloration were observed in the soil from any of the boreholes. Field observations of the soil cores for each borehole related to lithology, discoloration, moisture, density, odor and PID readings were recorded on boring logs that are attached with this report as Appendix A.

The subsurface materials encountered in borehole B1 through B4 consisted predominantly of Fill material from the depths of 0.5 to 4.0 feet bgs, and clay and silty clay, with coarse-grained material encountered in the boreholes as follows.

- B1: none.
- B2: silty fine sand between the depths of 4.0 and 4.5 feet bgs, and fine sand between the depths of 5.5 and 7.0 feet bgs.
- B3: silty fine sand between the depths of 4.0 and 4.5 feet bgs, and fine sand between the depths of 6.0 and 7.5 feet bgs.
- B4: Silty fine sand between the depths of 2.0 and 4.5 feet bgs, and fine sand between the depths of 6.0 and 8.5 feet bgs.

Groundwater was encountered during drilling in borehole B1 at a depth of 6.5 feet bgs, and at a depth of 6.0 feet bgs in the remaining boreholes.

Soil samples were collected at the 5-foot depth from each borehole for laboratory analysis in the following manner. A 6-inch long 2-inch diameter section of transparent PVC tube soil core was used to collect the soil sample. The ends of the tube were evaluated with the PID, and then sequentially covered with aluminum foil and plastic endcaps. The sample was then labeled and

placed into a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

One groundwater grab sample was collected from each borehole by placing a temporary 1-inch diameter slotted PVC pipe into the borehole, inserting a polypropylene tube into the PVC pipe, and using a peristaltic pump to withdraw water from the temporary pipe. Prior to groundwater sample collection, approximately 0.2-gallon of water was purged from each borehole. The groundwater samples were pumped directly into 40-milliliter VOAs which were supplied by the laboratory and which contained hydrochloric acid preservative. The sample bottles were labeled and placed in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling. No odor or sheen were detected or observed for the groundwater grab sample.

Following collection of the borehole groundwater grab samples, the boreholes were filled with neat cement grout using the temporary PVC casing as a tremie pipe. Inspector Steve Miller of the ACPWA was present at the site to observe grouting of the boreholes.

GEOLOGY AND HYDROGEOLOGY

Based on review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, the subject site is underlain by Holocene Deposits, Bay mud (Qhbm), which is described as unconsolidated water-saturated dark plastic carbonaceous clay and silty clay. It may contain a few lenses of well-sorted fine sand and silt and a few shelly and peaty layers.

Review of the Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California: A Digital Database that was compiled by R.W. Graymer (U. S. Geological Survey Miscellaneous Field Studies, MF-2342, Version 1.0 in 2000), shows the subject site as being underlain by artificial fill (af) which is described as consisting of Man-made deposits of various materials and ages. The materials are further described as some being compacted and quite firm, but fills made before 1965 are nearly everywhere not compacted and consist simply of dumped materials.

Based on the materials encountered in the borehole cores at drilling locations B1 through B4 to depths of 8.0 and 10.0 feet bgs the subsurface materials encountered at the site consisted of gravelly sand and gravelly clayey sand fill to a depth of 2.0 to 4.5 feet bgs, beneath which variable amounts of clay, silty sand, and sand were encountered. The maximum sand layer thickness encountered was 2.5 feet. Groundwater was encountered during drilling in borehole B1 at a depth of 6.5 feet bgs, and at a depth of 6.0 feet bgs in the remaining boreholes.

The nearest surface water body to the subject site is a tidal canal located approximately 1,450 feet to the southw of the site that is connected to the San Leandro Bay estuary, and San Leandro Bay which is located approximately 1,450 feet to the south. The groundwater flow direction at the site is

unknown, but is presumed to be westerly to southerly towards these nearby surface water bodies. It is unknown if groundwater levels at the site are tidally influenced. Additionally, the conductivity of the water at the site is presently unknown.

LABORATORY ANALYSIS

All of the borehole soil and groundwater samples were analyzed at McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. McCampbell is a State-accredited hazardous waste testing laboratory. The soil samples from the boreholes were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Method 3550B in conjunction with EPA Method 8015B, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 5030B in conjunction with EPA Method 8260B. The borehole groundwater grab samples were analyzed for TPH-D using EPA Method 3510C in conjunction with EPA Method 8015B, and for BTEX using EPA Method 5030B in conjunction with EPA Method 8260B.

The laboratory analytical results for all of the borehole soil samples are summarized in Table 1, and the laboratory analytical results for all of the borehole groundwater grab samples are summarized in Table 2. Copies of the laboratory analytical reports are attached with this report as Appendix B.

Review of Table 1 shows that BTEX was not detected in any of the soil samples, and that TPH-D was only detected in the samples collected from boreholes B1 and B4 at concentrations of 6.0 and 2.4 mg/kg, respectively. Review of the laboratory analytical report shows that the laboratory described the TPH-D results for soil samples B1-5.0 and B4-5.0 as consisting of both oil-range compounds and diesel-range compounds with no recognizable pattern.

Review of Table 2 shows that BTEX compounds were not detected in any of the samples with the exception of the water sample from borehole B3, where benzene, toluene, ethylbenzene, and total xylenes were detected at concentrations of 2.6, 0.64, 4.3, and 20 micrograms per Liter ($\mu\text{g/L}$), respectively. TPH-D was detected in groundwater samples B1-W, B2-W, B3-W and B4-W at concentrations of 67, 450, 790, and 240 $\mu\text{g/L}$, respectively. Review of the laboratory analytical results shows that the laboratory described the TPH-D results for groundwater samples B1-W, B2-W, and B4-W as consisting of both oil-range compounds and diesel-range compounds with no recognizable pattern, and the TPH-D results for groundwater sample B3-W was described as consisting of oil-range compounds, diesel-range compounds with no recognizable pattern, and gasoline- range compounds.

DISCUSSION AND RECOMMENDATIONS

Field observations associated with the drilling of four soil borings at the subject site identified a moderate petroleum hydrocarbon odor for the groundwater sample collected from borehole B3. No other evidence of staining, discoloration, odors, or detectable concentrations of organic vapors with the PID were identified in any of the other boreholes.

Comparison of the soil sample results with San Francisco Bay Regional Water Quality Control Board (RWQCB) December 2013 Environmental Screening Levels (ESLs) shows that none of the soil sample results in Table 1 exceed any of their respective RWQCB December 2013 Table A-1 residential land use soil screening levels, or any of the RWQCB December 2013 Table A-2 commercial/industrial land use soil screening levels.

Review of Table 2 shows that none of the detected TPH-D or BTEX concentrations in borehole groundwater samples exceed the respective RWQCB December 2013 Table E-1 groundwater screening levels for potential vapor intrusion for fine-coarse mixtures for either residential land use or for commercial/industrial land use. However, the detected concentrations of TPH-D in samples B2-W, B3-W, and B4-W of 450, 790, and 240 ug/L exceed their respective Table F-1a ESL groundwater screening value of 100 ug/L. Additionally, the detected concentrations of benzene and total xylenes in sample B3-W of 2.6 and 20 ug/L, respectively, exceed or equal their respective Table F-1a ESL groundwater screening value of 1.0 and 20 ug/L, respectively.

Based on the absence of staining, discoloration, odor, detectable organic vapor concentrations with the PID, or any other evidence of contamination in any of the soil from the boreholes at the time of drilling, in conjunction with none of the soil sample results exceeding any of their respective ESL values for commercial/industrial land use, no further action is recommended for soil at the locations investigated.

Based on the detected presence of TPH-D, benzene and total xylenes in groundwater at concentrations exceeding their respective Table F-1a groundwater screening levels, P&D recommends that a copy of this report be provided to the appropriate local regulatory agency (RWQCB or Alameda County Department of Environmental Health) for review and comment.

LIMITATIONS

This report was prepared solely for the use of 475 Lesser Street, LLC. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility

April 3, 2014
Report 0675.R1

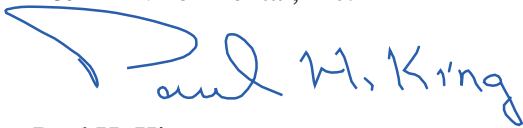
of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/15



Attachments:

Table 1 - Summary of Borehole Soil Sample Analytical Results

Table 2 - Summary of Borehole Groundwater Grab Sample Analytical Results

Figure 1 - Site Location Map

Figure 2 - Site Aerial Photograph Showing Soil Boring Locations

Appendix A - Soil Boring Logs

Appendix B - Laboratory Analytical Reports and Chain of Custody Documentation

PHK/hd/sjc
0675.R1

TABLES

Table 1
Summary of Borehole Soil Sample Analytical Results

Sample ID	Sample Date	Sample Depth (Ft bgs)	TPH-D	Benzene	Toluene	Ethyl-benzene	Total Xylenes
B1-5.0	3/26/2014	5.0	6.0, a,b	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050
B2-5.0	3/26/2014	5.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050
B3-5.0	3/26/2014	5.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050
B4-5.0	3/26/2014	5.0	2.4, a,b	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050
<i>ESL¹</i>			<i>100</i>	<i>0.044</i>	<i>2.9</i>	<i>3.3</i>	<i>2.3</i>
<i>ESL²</i>			<i>110</i>	<i>0.044</i>	<i>2.9</i>	<i>3.3</i>	<i>2.3</i>
NOTES							
Ft bgs = Feet Below Ground Surface.							
TPH-D = Total Petroleum Hydrocarbons as Diesel.							
ND = Not Detected.							
a = Oil range compounds are significant.							
b = Diesel range compounds are significant; no recognizable pattern.							
<i>ESL¹</i> = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table A-1 – Shallow Soil Screening Levels, Groundwater is a current or potential drinking water resource. Residential Land Use.							
<i>ESL³</i> = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table A-2 – Shallow Soil Screening Levels, Groundwater is a current or potential drinking water resource. Commercial/Industrial Land Use.							
Results and ESLs reported in milligrams per kilogram (mg/kg) unless otherwise indicated.							

Summary of Borehole Groundwater Grab Sample Analytical Results

Sample ID	Sample Date	TPH-D	Benzene	Toluene	Ethylbenzene	Total Xylenes
B1-W	3/26/2014	67, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50
B2-W	3/26/2014	450, a,b	ND<0.50	ND<0.50	ND<0.50	ND<0.50
B3-W	3/26/2014	790, a,b,c	2.6	0.64	4.3	20
B4-W	3/26/2014	240, a,b	ND<0.50	ND<0.50	ND<0.50	0.50
<i>ESL¹</i>		<i>100</i>	<i>1.0</i>	<i>40</i>	<i>30</i>	<i>20</i>
<i>ESL²</i>		<i>None</i>	<i>27</i>	<i>95,000</i>	<i>310</i>	<i>37,000</i>
NOTES:						
TPH-D = Total Petroleum Hydrocarbons as Diesel.						
ND = Not Detected.						
a = Oil range compounds are significant.						
b = Diesel range compounds are significant; no recognizable pattern.						
c = Gasoline range compounds are significant.						
<i>ESL¹</i> = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table F-1a – Groundwater Screening Levels, groundwater is a current or potential drinking water resource.						
<i>ESL²</i> = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table E-1 – Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion (Fine-Coarse Mix). Residential Land Use.						
Results in bold indicate a concentration equal or exceeding the respective <i>ESL¹</i> value.						
Results and ESLs reported in micrograms per liter (µg/L) unless otherwise indicated.						

FIGURES

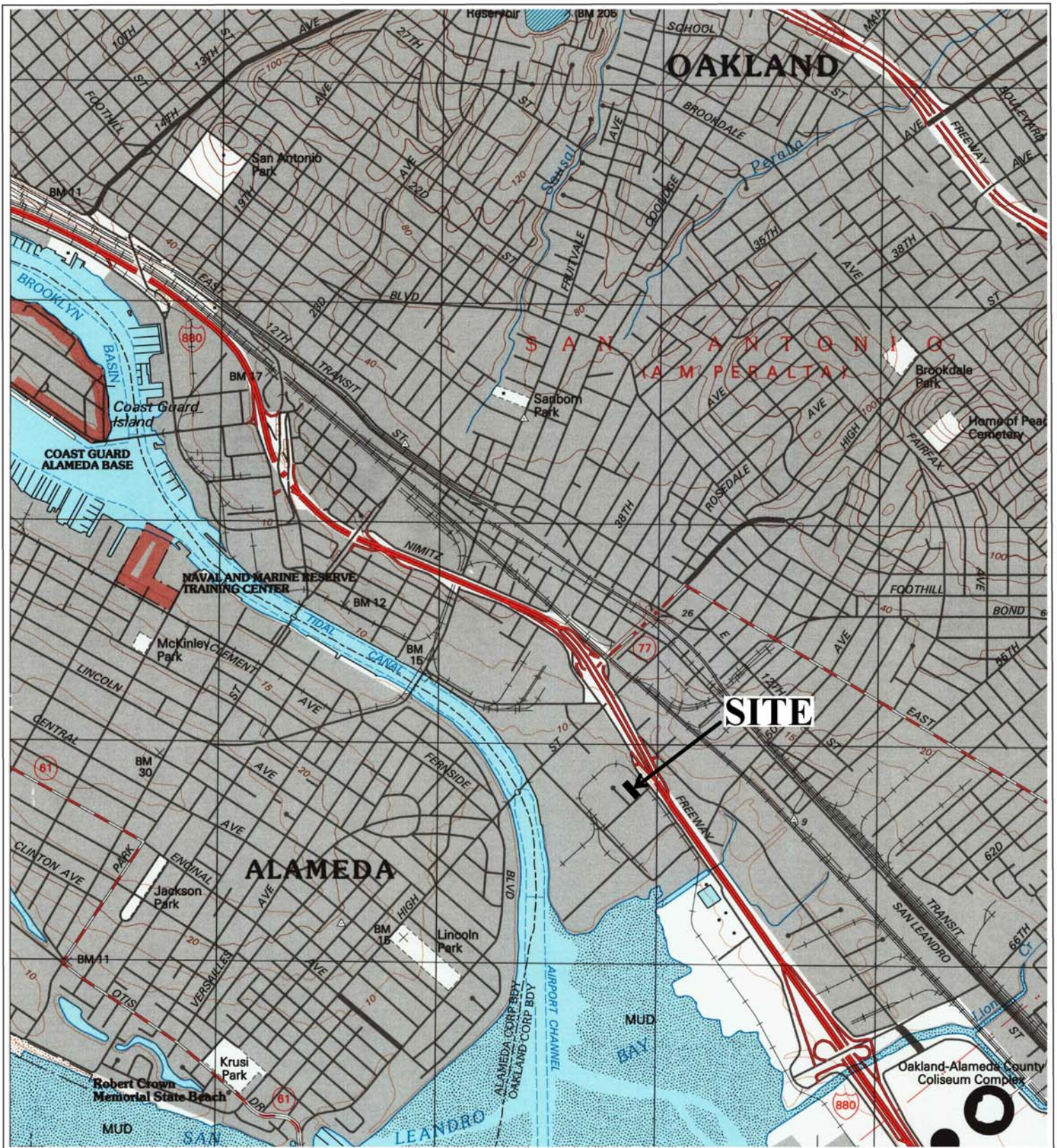


Figure 1
 Site Location Map
 475 Lesser Street
 Oakland, California

Basemap from:
 U.S. Geological Survey
 Oakland East, California
 7.5-Minute Quadrangle, Map edited 1996

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610

0 1,000 2,000
 Approximate Scale in Feet

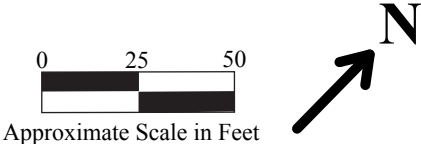




Figure 2
 Site Aerial Photograph Showing Borehole Locations
 475 Lesser Street
 Oakland, California

Base Map From:
 Google Earth, image dated August 2012

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610



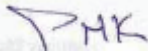
APPENDIX A
Soil Boring Logs

P&D ENVIRONMENTAL, INC.

BORING NO.: B1		PROJECT NO.: 0675		PROJECT NAME: 475 Lesser Street, Oakland		
BORING LOCATION: Approximately 190 ft. north and 12 ft. east of southwest corner of property			ELEVATION AND DATUM: None			
DRILLING AGENCY: Vironex, Inc.		DRILLER: JP		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 6600				03/26/14 1055	03/26/14 1300	
COMPLETION DEPTH: 8.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 6.5 Feet		NO. OF SAMPLES: 1 Soil, 1 Water		MLBD		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (3-inches) Concrete and base rock.			No Well Constructed		
	0.5 to 4.5 ft. Orange-brown gravelly clayey sand (FILL); medium dense, moist, with abundant coarse angular gravel to 0.5-inch diameter. No Petroleum Hydrocarbon (PHC) odor. (25,55,20)	FILL		▼	0	Borehole was continuously cored from 0.0 to 8.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
5	4.5 to 6.5 ft. Olive-brown silty clay (CL); medium stiff, moist to wet. No PHC odor. (0,0,100) Wet at 6.0 ft. Saturated at 6.5 ft.	X B1-5.0		▽	0	0.0 to 5.0 ft. 4.6 ft. recovery 5.0 to 8.0 ft. 3.0 ft. recovery
	6.5 to 7.5 ft. Olive-gray sandy clay (CL); soft, saturated, with abundant fine sand. No PHC odor. (0,40,60)	CL			0	Water encountered during drilling at 6.5 ft. at 1105. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 3.0 ft. at 1110 and at 2.8 ft. at 1120.
	7.5 to 8.0 ft. Olive-gray clay (CL); medium stiff, wet. No PHC odor. (0,0,100)					
10						Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B1-W collected at 1230 directly from the discharge tubing. No odor or sheen on sample. Water level subsequently measured at 3.4 ft. at 1245.
15						Borehole grouted on 03/26/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency onsite to observe and document grouting of the boreholes.
20						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
25						
30						

P&D ENVIRONMENTAL, INC.

BORING NO.: B2		PROJECT NO.: 0675		PROJECT NAME: 475 Lesser Street, Oakland		
BORING LOCATION: Approximately 142 ft. north and 12 ft. east of southwest corner of property			ELEVATION AND DATUM: None			
DRILLING AGENCY: Vironex, Inc.		DRILLER: JP		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 6600				03/26/14 1020	03/26/14 1300	
COMPLETION DEPTH: 8.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 6.0 Feet		NO. OF SAMPLES: 1 Soil, 1 Water		MLBD		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (3-inches) Concrete and base rock.					
	0.5 to 3.0 ft. Orange-brown gravelly sand (FILL); medium dense, moist, with abundant coarse angular gravel to 0.5-inch diameter.	FILL		No Well Constructed	0	Borehole was continuously cored from 0.0 to 8.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	No Petroleum Hydrocarbon (PHC) odor. (20,60,20)			▼	0	
	3.0 to 4.0 ft. Olive-black clay (CL); medium stiff, moist. No PHC odor. (0,0,100)	CL				
5	4.0 to 4.5 ft. Olive-gray silty fine sand (SM); medium dense, moist, with shell fragments. No PHC odor. (0,85,15)	SM				0.0 to 5.0 ft. 4.2 ft. recovery
	4.5 to 5.5 ft. Olive-gray clay (CL); medium stiff, moist to wet. No PHC odor. (0,0,100)	CL				5.0 to 8.0 ft. 3.0 ft. recovery
	5.5 to 7.0 ft. Olive-gray fine sand (SP); loose, saturated. Wet at 5.5 ft. Saturated at 6.0 ft.	SP		▼	0	Water encountered during drilling at 6.0 ft. at 1040. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 3.1 ft. at 1040 and at 2.9 ft. at 1050.
	7.0 to 8.0 ft. Olive-gray clay (CL); medium stiff, wet. No PHC odor. (0,0,100)	CL			0	
10						Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B2-W collected at 1205 directly from the discharge tubing. No odor or sheen on sample. Water level subsequently measured at 3.2 ft. at 1220.
15						Borehole grouted on 03/26/14 using neat cement grout and a tremie pipe.
20						Mr. Steve Miller with Alameda County Public Works Agency onsite to observe and document grouting of the boreholes.
25						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
30						

BORING NO.: B3		PROJECT NO.: 0675		PROJECT NAME: 475 Lesser Street, Oakland		
BORING LOCATION: Approximately 97 ft. north and 12 ft. east of southwest corner of property				ELEVATION AND DATUM: None		
DRILLING AGENCY: Vironex, Inc.		DRILLER: JP		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 6600				03/26/14 0950	03/26/14 1300	
COMPLETION DEPTH: 8.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 6.0 Feet		NO. OF SAMPLES: 1 Soil, 1 Water		MLBD		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (3-inches) Concrete and base rock.			No Well Constructed		Borehole was continuously cored from 0.0 to 8.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube. 0.0 to 5.0 ft. 4.6 ft. recovery 5.0 to 8.0 ft. 2.4 ft. recovery Water encountered during drilling at 6.0 ft. at 1000. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 3.8 ft. at 1005 and at 3.2 ft. at 1010.
	0.5 to 2.0 ft. Orange-brown gravelly clayey sand (FILL); medium dense, moist, with abundant coarse angular gravel to 0.5-inch diameter. No Petroleum Hydrocarbon (PHC) odor. (20,60,20)	FILL			0	
	2.0 to 4.0 ft. Olive-gray clay (CL); medium stiff, moist. No PHC odor. (0,0,100)	CL		▼	0	
5	4.0 to 4.5 ft. Olive-gray silty fine sand (SM); medium dense, moist, with shell fragments. No PHC odor. (0,85,15)	SM				
	4.5 to 6.0 ft. Olive-brown clay (CL); medium stiff, moist to wet. No PHC odor. (0,0,100) Wet at 5.5 ft. Saturated at 6.0 ft.	CL B3-5.0		▼	0	
	6.0 to 7.5 ft. Olive-gray fine sand (SP); loose, saturated, with few coarse angular gravel to 0.5-inch diameter. No PHC odor. (5,90,5)	SP				
	7.5 to 8.0 ft. Olive-gray clay (CL); medium stiff, wet. No PHC odor. (0,0,100)	CL			0	
10						Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B3-W collected at 1140 directly from the discharge tubing. Moderate odor and no sheen on sample. Water level subsequently measured at 3.6 ft. at 1155.
15						Borehole grouted on 03/26/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency onsite to observe and document grouting of the boreholes.
20						<u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
25						
30						

P&D ENVIRONMENTAL, INC.

BORING NO.: B4		PROJECT NO.: 0675		PROJECT NAME: 475 Lesser Street, Oakland		
BORING LOCATION: Approximately 45 ft. north and 12 ft. east of southwest corner of property			ELEVATION AND DATUM: None			
DRILLING AGENCY: Vironex, Inc.		DRILLER: JP		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 6600				03/26/14 0950	03/26/14 1300	
COMPLETION DEPTH: 10.0 Feet		BEDROCK DEPTH: Not Encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 6.0 Feet		NO. OF SAMPLES: 1 Soil, 1 Water		MLBD		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. (3-inches) Concrete and base rock.					
	0.5 to 2.0 ft. Orange-brown gravelly sand (FILL); medium dense, moist. No Petroleum Hydrocarbon (PHC) odor. (20,60,20)	FILL		No Well Constructed	0	Borehole was continuously cored from 0.0 to 10.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	2.0 to 4.5 ft. Olive-gray silty fine sand (SM); medium dense, moist, with shell fragments. No PHC odor. (0,80,20)	SM		▼	0	0.0 to 5.0 ft. 4.3 ft. recovery 5.0 to 10.0 ft. 4.8 ft. recovery
5	4.5 to 6.0 ft. Black clay (CL); medium stiff, moist to wet. No PHC odor. (0,0,100) Wet at 5.5 ft. Saturated at 6.0 ft.	CL B4-5.0		▼	0	Water encountered during drilling at 6.0 ft. at 0925. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 4.5 ft. at 0928 and at 4.0 ft. at 0938.
	6.0 to 8.5 ft. Olive-gray fine sand (SP); loose, saturated, with few coarse angular gravel to 0.25-inch diameter. No PHC odor. (5,90,5)	SP			0	
10	8.5 to 10.0 ft. Olive-black clay (CL); medium stiff, moist. No PHC odor. (0,0,100)	CL				
15						Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B4-W collected at 1110 directly from the discharge tubing. No odor and no sheen on sample. Water level subsequently measured at 4.3 ft. at 1132.
20						Borehole grouted on 03/26/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency onsite to observe and document grouting of the boreholes. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
25						
30						

APPENDIX B

Laboratory Analytical Reports and Chain of Custody Documentation

- **McC Campbell Work Order # 1403A23: Soil Samples B1-5.0, B2-5.0, B3-5.0, and B4-5.0 TPH-D and BTEX Results**
- **McC Campbell Work Order # 1403A26: Water Samples B1-W, B2-W, B3-W, and B4-W TPH-D and BTEX Results**



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1403A23

Report Created for: P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project Name: #0675; 475 Lesser St

Project Received: 03/27/2014

Analytical Report reviewed & approved for release on 04/02/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0675; 475 Lesser St
WorkOrder: 1403A23

Glossary

Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical

Qualifier

e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant



Analytical Report

Client: P & D Environmental
Project: #0675; 475 Lesser St
Date Received: 3/27/14 20:30
Date Prepared: 3/27/14

WorkOrder: 1403A23
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Benzene, Toluene, Ethylbenzene & Xylenes (BTEX) by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-5.0	1403A23-001A	Soil	03/26/2014 11:00	GC16	88706

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	03/29/2014 20:39
Ethylbenzene	ND	0.0050	1	03/29/2014 20:39
Toluene	ND	0.0050	1	03/29/2014 20:39
Xylenes, Total	ND	0.0050	1	03/29/2014 20:39
Surrogates	REC (%)	Limits		
Dibromofluoromethane	104	70-130		03/29/2014 20:39
Toluene-d8	100	70-130		03/29/2014 20:39
4-BFB	107	70-130		03/29/2014 20:39

B2-5.0	1403A23-002A	Soil	03/26/2014 10:30	GC16	88706
---------------	---------------------	-------------	-------------------------	-------------	--------------

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	03/29/2014 21:22
Ethylbenzene	ND	0.0050	1	03/29/2014 21:22
Toluene	ND	0.0050	1	03/29/2014 21:22
Xylenes, Total	ND	0.0050	1	03/29/2014 21:22
Surrogates	REC (%)	Limits		
Dibromofluoromethane	104	70-130		03/29/2014 21:22
Toluene-d8	98	70-130		03/29/2014 21:22
4-BFB	105	70-130		03/29/2014 21:22

B3-5.0	1403A23-003A	Soil	03/26/2014 09:55	GC16	88706
---------------	---------------------	-------------	-------------------------	-------------	--------------

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.0050	1	03/29/2014 22:05
Ethylbenzene	ND	0.0050	1	03/29/2014 22:05
Toluene	ND	0.0050	1	03/29/2014 22:05
Xylenes, Total	ND	0.0050	1	03/29/2014 22:05
Surrogates	REC (%)	Limits		
Dibromofluoromethane	105	70-130		03/29/2014 22:05
Toluene-d8	99	70-130		03/29/2014 22:05
4-BFB	102	70-130		03/29/2014 22:05

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0675; 475 Lesser St
Date Received: 3/27/14 20:30
Date Prepared: 3/27/14

WorkOrder: 1403A23
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Benzene, Toluene, Ethylbenzene & Xylenes (BTEX) by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-5.0	1403A23-004A	Soil	03/26/2014 09:15	GC10	88706
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.0050	1	03/28/2014 15:40
Ethylbenzene	ND		0.0050	1	03/28/2014 15:40
Toluene	ND		0.0050	1	03/28/2014 15:40
Xylenes, Total	ND		0.0050	1	03/28/2014 15:40
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	97		70-130		03/28/2014 15:40
Toluene-d8	97		70-130		03/28/2014 15:40
4-BFB	100		70-130		03/28/2014 15:40



Analytical Report

Client: P & D Environmental
Project: #0675; 475 Lesser St
Date Received: 3/27/14 20:30
Date Prepared: 3/27/14

WorkOrder: 1403A23
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-5.0	1403A23-001A	Soil	03/26/2014 11:00	GC6B	88698
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	6.0		1.0	1	03/29/2014 12:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	116		70-130		03/29/2014 12:05
B2-5.0	1403A23-002A	Soil	03/26/2014 10:30	GC6A	88698
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	03/31/2014 09:00
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	98		70-130		03/31/2014 09:00
B3-5.0	1403A23-003A	Soil	03/26/2014 09:55	GC6B	88698
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	ND		1.0	1	03/29/2014 22:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	109		70-130		03/29/2014 22:57
B4-5.0	1403A23-004A	Soil	03/26/2014 09:15	GC6A	88698
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	2.4		1.0	1	03/29/2014 03:29
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	107		70-130		03/29/2014 03:29



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/27/14
Date Analyzed: 3/28/14
Instrument: GC10
Matrix: Soil
Project: #0675; 475 Lesser St

WorkOrder: 1403A23
BatchID: 88706
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-88706
 1403A23-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.0050	-	-	-	-
Benzene	ND	0.04794	0.0050	0.050	-	95.9	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	0.050	-	-	-	-
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	-	0.0050	-	-	-	-
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	-	0.0040	-	-	-	-
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	-	0.0040	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/27/14
Date Analyzed: 3/28/14
Instrument: GC10
Matrix: Soil
Project: #0675; 475 Lesser St

WorkOrder: 1403A23
BatchID: 88706
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-88706
 1403A23-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.0050	-	-	-	-
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.0050	-	-	-	-
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.05078	0.0050	0.050	-	102	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	-	0.0050	-	-	-	-
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	0.12	0.166		0.18	96	95	70-130
Toluene-d8	0.1219	0.1615		0.18	98	92	70-130
4-BFB	0.01181	0.01694		0.018	94	97	70-130

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/27/14
Date Analyzed: 3/28/14
Instrument: GC10
Matrix: Soil
Project: #0675; 475 Lesser St

WorkOrder: 1403A23
BatchID: 88706
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-88706
 1403A23-004AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzene	0.03913	0.03698	0.050	ND	78.3	74	70-130	5.66	30
Toluene	0.04422	0.04226	0.050	ND	88.4	84.5	70-130	4.53	30
Surrogate Recovery									
Dibromofluoromethane	0.1602	0.1612	0.18		92	92	70-130	0	30
Toluene-d8	0.1553	0.1533	0.18		89	88	70-130	1.31	30
4-BFB	0.0164	0.01753	0.018		94	100	70-130	6.66	30



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/27/14
Date Analyzed: 3/29/14 - 3/30/14
Instrument: GC11A
Matrix: Soil
Project: #0675; 475 Lesser St

WorkOrder: 1403A23
BatchID: 88698
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-88698
 1403A09-001AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.1	1.0	40	-	97.8	70-130
Surrogate Recovery							
C9	26.64	26.43		25	107	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	46.32	46.55	40	1.174	113	113	70-130	0	30
Surrogate Recovery									
C9	25.15	25.81	25		101	103	70-130	2.56	30



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1403A23

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
cc/3rd Party:
PO:
ProjectNo: #0675; 475 Lesser St

Bill to:

Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT:

5 days

Date Received: 03/27/2014

Date Printed: 03/27/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1403A23-001	B1-5.0	Soil	3/26/2014 11:00	<input type="checkbox"/>	A	A											
1403A23-002	B2-5.0	Soil	3/26/2014 10:30	<input type="checkbox"/>	A	A											
1403A23-003	B3-5.0	Soil	3/26/2014 9:55	<input type="checkbox"/>	A	A											
1403A23-004	B4-5.0	Soil	3/26/2014 9:15	<input type="checkbox"/>	A	A											

Test Legend:

1	BTEX_8260B_S	2	TPH(D)_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1403A23

Project: #0675; 475 Lesser St

Client Contact: Paul King

Date Received: 3/27/2014

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1403A23-001A	B1-5.0	Soil	SW8015B (Diesel)	1	Acetate Liner	<input type="checkbox"/>	3/26/2014 11:00	5 days		<input type="checkbox"/>	
			SW8260B (BTEX)			<input type="checkbox"/>					
1403A23-002A	B2-5.0	Soil	SW8015B (Diesel)	1	Acetate Liner	<input type="checkbox"/>	3/26/2014 10:30	5 days		<input type="checkbox"/>	
			SW8260B (BTEX)			<input type="checkbox"/>					
1403A23-003A	B3-5.0	Soil	SW8015B (Diesel)	1	Acetate Liner	<input type="checkbox"/>	3/26/2014 9:55	5 days		<input type="checkbox"/>	
			SW8260B (BTEX)			<input type="checkbox"/>					
1403A23-004A	B4-5.0	Soil	SW8015B (Diesel)	1	Acetate Liner	<input type="checkbox"/>	3/26/2014 9:15	5 days		<input type="checkbox"/>	
			SW8260B (BTEX)			<input type="checkbox"/>					

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

Acetate Liner = Acetate Liner

CHAIN OF CUSTODY RECORD

1403A-23

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610 (510) 658-6916					NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-D as Modified EPA 8015 BTEX using EPA 8260B	PRESERVATIVE	REMARKS
PROJECT NUMBER: 0675		PROJECT NAME: 475 LESSER ST OAKLAND, CA						
SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES <i>Michael Bass-Deschenes</i>								
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES)	PRESERVATIVE	REMARKS
B1-5.0	3/26/14	1700	Soil		1	X X	ICE	NORMAL TAT
B2-5.0	"	1030	"		1	X X	"	" "
B3-5.0	"	0955	"		1	X X	"	" "
B4-5.0	"	0915	"		1	X X	"	" "
ICE/ * B-2 GOOD CONDITION _____ APPROPRIATE CONTAINERS _____ HEAD SPACE ABSENT _____ PRESERVED IN LAB _____ DECHLORINATED IN LAB _____ PRESERVATION: FOAS _____ O&G _____ METALS _____ OTHER _____								
RELINQUISHED BY: (SIGNATURE) <i>Michael Bass-Deschenes</i>		DATE 3/27/14	TIME 1745	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		Total No. of Samples (This Shipment) 4	LABORATORY: McCAMPBELL ANALYTICAL, INC.	
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE 3/27/14	TIME 1745	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		Total No. of Containers (This Shipment) 4	LABORATORY CONTACT: ANGELA RYDELIUS (877) 252-9262	
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE 3/27	TIME 1745	RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO		
Results and billing to: P&D Environmental, Inc. lab@pdenviro.com				REMARKS:				



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **3/27/2014 8:30:11 PM**
 Project Name: **#0675; 475 Lesser St** LogIn Reviewed by: **Ana Venegas**
 WorkOrder N°: **1403A23** Matrix: Soil Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 3.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1403A26

Report Created for: P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project Name: #0675; 475 Lesser St. Oakland CA

Project Received: 03/27/2014

Analytical Report reviewed & approved for release on 04/02/2014 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0675; 475 Lesser St. Oakland CA
WorkOrder: 1403A26

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant



Analytical Report

Client: P & D Environmental
Project: #0675; 475 Lesser St. Oakland CA
Date Received: 3/27/14 20:53
Date Prepared: 3/29/14

WorkOrder: 1403A26
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Oxygenated Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-W	1403A26-001B	Water	03/26/2014 12:30	GC28	88764
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.50	1	03/29/2014 21:26
Ethylbenzene	ND		0.50	1	03/29/2014 21:26
Toluene	ND		0.50	1	03/29/2014 21:26
Xylenes, Total	ND		0.50	1	03/29/2014 21:26
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	87		70-130		03/29/2014 21:26
B2-W	1403A26-002B	Water	03/26/2014 12:05	GC28	88764
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.50	1	03/29/2014 22:05
Ethylbenzene	ND		0.50	1	03/29/2014 22:05
Toluene	ND		0.50	1	03/29/2014 22:05
Xylenes, Total	ND		0.50	1	03/29/2014 22:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	85		70-130		03/29/2014 22:05
B3-W	1403A26-003B	Water	03/26/2014 11:40	GC28	88764
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	2.6		0.50	1	03/29/2014 22:43
Ethylbenzene	0.64		0.50	1	03/29/2014 22:43
Toluene	4.3		0.50	1	03/29/2014 22:43
Xylenes, Total	20		0.50	1	03/29/2014 22:43
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	89		70-130		03/29/2014 22:43

(Cont.)



Analytical Report

Client: P & D Environmental	WorkOrder: 1403A26
Project: #0675; 475 Lesser St. Oakland CA	Extraction Method: SW5030B
Date Received: 3/27/14 20:53	Analytical Method: SW8260B
Date Prepared: 3/29/14	Unit: µg/L

Oxygenated Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-W	1403A26-004B	Water	03/26/2014 11:10	GC28	88764
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Benzene	ND		0.50	1	03/29/2014 23:21
Ethylbenzene	ND		0.50	1	03/29/2014 23:21
Toluene	ND		0.50	1	03/29/2014 23:21
Xylenes, Total	0.50		0.50	1	03/29/2014 23:21
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	87		70-130		03/29/2014 23:21



Analytical Report

Client: P & D Environmental
Project: #0675; 475 Lesser St. Oakland CA
Date Received: 3/27/14 20:53
Date Prepared: 3/27/14

WorkOrder: 1403A26
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-W	1403A26-001A	Water	03/26/2014 12:30	GC9b	88697
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	67		50	1	03/31/2014 01:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	88		70-130		03/31/2014 01:05
B2-W	1403A26-002A	Water	03/26/2014 12:05	GC6A	88697
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	450		50	1	03/30/2014 04:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	102		70-130		03/30/2014 04:57
B3-W	1403A26-003A	Water	03/26/2014 11:40	GC6A	88697
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	790		50	1	03/30/2014 02:33
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2,e4	
C9	102		70-130		03/30/2014 02:33
B4-W	1403A26-004A	Water	03/26/2014 11:10	GC6A	88697
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
TPH-Diesel (C10-C23)	240		50	1	03/30/2014 00:09
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: e7,e2	
C9	102		70-130		03/30/2014 00:09



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/27/14
Date Analyzed: 3/29/14
Instrument: GC6A
Matrix: Water
Project: #0675; 475 Lesser St. Oakland CA

WorkOrder: 1403A26
BatchID: 88697
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS-88697

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	1178	50	1000	-	118	70-130
Surrogate Recovery							
C9	663.3	655.8		625	106	105	70-130

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/31/14
Date Analyzed: 3/29/14
Instrument: GC28
Matrix: Water
Project: #0675; 475 Lesser St. Oakland CA

WorkOrder: 1403A26
BatchID: 88764
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-88764
 1403A27-007BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.50	-	-	-	-
Benzene	ND	20.33	0.50	20	-	102	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	2.0	-	-	-	-
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	-	0.50	-	-	-	-
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	-	0.50	-	-	-	-
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	-	0.50	-	-	-	-
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/31/14
Date Analyzed: 3/29/14
Instrument: GC28
Matrix: Water
Project: #0675; 475 Lesser St. Oakland CA

WorkOrder: 1403A26
BatchID: 88764
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-88764
 1403A27-007BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.50	-	-	-	-
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.50	-	-	-	-
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.17	0.50	20	-	101	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	-	0.50	-	-	-	-
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	21.59	41.11		45	86	91	70-130
Toluene-d8	22.18	41.24		45	89	92	70-130
4-BFB	2.254	4.124		4.5	90	92	70-130

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 3/31/14
Date Analyzed: 3/29/14
Instrument: GC28
Matrix: Water
Project: #0675; 475 Lesser St. Oakland CA

WorkOrder: 1403A26
BatchID: 88764
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-88764
 1403A27-007BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzene	19.54	19.57	20	ND	97.7	97.9	70-130	0.187	20
Toluene	19.43	19.3	20	ND	97.2	96.5	70-130	0.659	20
Surrogate Recovery									
Dibromofluoromethane	39.76	40.72	45		88	90	70-130	2.39	20
Toluene-d8	40.51	40.28	45		90	90	70-130	0	20
4-BFB	3.965	4.046	4.5		88	90	70-130	2.02	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1403A26

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
cc/3rd Party:
PO:
ProjectNo: #0675; 475 Lesser St. Oakland CA

Bill to:

Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT:

5 days

Date Received: 03/27/2014

Date Printed: 03/28/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1403A26-001	B1-W	Water	3/26/2014 12:30	<input type="checkbox"/>	B	A											
1403A26-002	B2-W	Water	3/26/2014 12:05	<input type="checkbox"/>	B	A											
1403A26-003	B3-W	Water	3/26/2014 11:40	<input type="checkbox"/>	B	A											
1403A26-004	B4-W	Water	3/26/2014 11:10	<input type="checkbox"/>	B	A											

Test Legend:

1	BTEX_8260B_W	2	TPH(D)_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0675; 475 Lesser St. Oakland CA
Comments:

QC Level: LEVEL 2
Client Contact: Paul King
Contact's Email: lab@pdenviro.com

Work Order: 1403A26
Date Received: 3/27/2014

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1403A26-001A	B1-W	Water	SW8015B (Diesel)	4	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 12:30	5 days	Present	<input type="checkbox"/>	
1403A26-001B	B1-W	Water	SW8260B (BTEX)	3	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 12:30	5 days	Present	<input type="checkbox"/>	
1403A26-002A	B2-W	Water	SW8015B (Diesel)	4	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 12:05	5 days	Present	<input type="checkbox"/>	
1403A26-002B	B2-W	Water	SW8260B (BTEX)	3	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 12:05	5 days	Present	<input type="checkbox"/>	
1403A26-003A	B3-W	Water	SW8015B (Diesel)	4	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 11:40	5 days	Present	<input type="checkbox"/>	
1403A26-003B	B3-W	Water	SW8260B (BTEX)	3	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 11:40	5 days	Present	<input type="checkbox"/>	
1403A26-004A	B4-W	Water	SW8015B (Diesel)	4	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 11:10	5 days	Present	<input type="checkbox"/>	
1403A26-004B	B4-W	Water	SW8260B (BTEX)	3	VOA w/ HCl	<input type="checkbox"/>	3/26/2014 11:10	5 days	Present	<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

VOA w/ HCl = 43mL VOA w/ HCl

CHAIN OF CUSTODY RECORD

1403A26
PAGE 1 OF 1

P&D ENVIRONMENTAL, INC. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610 (510) 658-6916					NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-D w/ MODIFIED EPA 8015 BTEX EPA 8260B										PRESERVATIVE	REMARKS				
PROJECT NUMBER: 0675		PROJECT NAME: 475 LESSER ST OAKLAND, CA																			
SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES <i>Michael Bass-Deschenes</i>																					
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION																	
B1-W	3/26/14	1230	H ₂ O		7	X	X													ICE	NORMAL TAT
B2-W	"	1205	"		7	X	X													"	" "
B3-W	"	1140	"		7	X	X													"	" "
B4-W	"	1110	"		7	X	X													"	" "
					ICE <input checked="" type="checkbox"/> 1.4.6 GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input type="checkbox"/> PRESERVED IN LAB <input type="checkbox"/> PRESERVATION <input checked="" type="checkbox"/> VOAS <input type="checkbox"/> TO & G <input type="checkbox"/> METALS <input type="checkbox"/> OTHER <input type="checkbox"/>																
RELINQUISHED BY: (SIGNATURE) <i>Michael Bass-Deschenes</i>				DATE 3/27/14	TIME 1615	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>				Total No. of Samples (This Shipment) 4	LABORATORY: Mc CAMPBELL ANALYTICAL, INC										
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>				DATE 3/27/14	TIME 1245	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>				Total No. of Containers (This Shipment) 28	LABORATORY CONTACT: ANGELA RAELINS (877) 252-9262										
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>				DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)				SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO											
Results and billing to: P&D Environmental, Inc. lab@pdeinviro.com						REMARKS: ALL VOAS PRESERVED WITH HCL															



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **3/27/2014 8:53:57 PM**
 Project Name: **#0675; 475 Lesser St. Oakland CA** LogIn Reviewed by: **Jena Alfaro**
 WorkOrder N°: **1403A26** Matrix: Water Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 4.6°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments: