Brittany Frost
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
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bfrost@chevron.com

Ms. Karel Detterman
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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

I have reviewed the attached Second Quarter 2017 Groundwater Monitoring and Sampling Report.

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 GHD Services, Inc., upon who 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,

Brittany Frost
Project Manager

Attachment: Second Quarter 2017 Groundwater Monitoring and Sampling Report

July 27, 2017 Reference No. 062164

Ms. Karel Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Oakland, California 94502

Re: Second Quarter 2017 Monitoring and Sampling Report
Former Tidewater Service Station
Phillip 66 Site 5677/Chevron Site 373378
7600 MacArthur Boulevard
Oakland, California
ACEH Fuel Leak Case No. RO3087

Dear Ms. Detterman:

GHD is submitting this *Second Quarter 2017 Monitoring and Sampling Report* for the site referenced above on behalf of Chevron Environmental Management Company (Chevron) and Phillips 66 Company (Phillips 66). This report was prepared in accordance with the Alameda County Department of Environmental Health's (ACDEH) Technical Report Request Letter dated July 19, 2016 (Attachment A). GHD completed four quarters of groundwater monitoring as requested in the ACDEH letter with the second quarter 2017 event being the last event. Site background information, current quarter monitoring results, and anticipated future activities are discussed below.

1. Site Background

Site Description

The site is located at 7600 MacArthur Boulevard in Oakland, California (Figure 1), and is currently occupied by a tenant, who uses the property to store and repair automobiles. As such, any potential impacts associated with the current site activities are the responsibility of the current owner. Based on information provided by ACDEH, 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.

GHD
732 Broadway Suite 301 Tacoma Washington 98402 USA
T 253 573 1218 F 253 573 1663 W www.ghd.com

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, which is further underlain by marine sandstone, greenstone, shale, conglomerate, and chert of the Mesozoic Franciscan Complex.

Soil encountered beneath the site during investigation consists primarily of clay with varying 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.

Previous Environmental Work

In January 2007, one 1,000-gallon 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 1970s. 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.

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.

Between September 30, 2014 and October 8, 2014, GHD (formerly 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.

No TPHd, TPHg, VOCs, PAHs, fuel oxygenates, lead scavengers, or metals were detected in soil exceeding 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) with the exception of the following:

- Benzo(a)pyrene in MW-3 at 5 fbg at a concentration of 0.039 mg/kg slightly exceeding the RWQCB ESL of 0.038 mg/kg, but was below the SWRCB LTCP of 0.063 mg/kg.
- 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.

No TPHd, TPHg, VOCs, PAHs, fuel oxygenates, lead scavengers, or metals were detected in groundwater exceeding RWQCB ESLs with the exception of the following:

- TPHd in borings BH-4 and MW-1 at 620 and 290 µg/L, respectively.
- TPHg in boring MW-1 at 480 µg/L.
- Carbon Tetrachloride in boring BH-1 at 1 µg/L.

Advancement of seven hand auger borings where magnetic anomalies were noted confirmed no additional USTs are present at the property.

2. Results of Second Quarter 2017 Monitoring Event

On May 15, 2017, G-R monitored and sampled site wells MW-1 through MW-3. Well development and sampling were completed pursuant to the ACDEH directive letter dated July 19, 2016.

During the second quarter 2017 event, depth to groundwater in site wells was approximately 15 feet below the top of the well casings. The groundwater flow direction was southwest at a gradient of 0.05 (Figure 2). Current and historical groundwater flow direction and gradient data are presented in Table 1. G-R's *Well Development, and Groundwater Monitoring and Sampling Data Packages* are included as Attachment B. Current and historic groundwater monitoring and sampling data are presented in Tables 1 through 3. Eurofins Lancaster Laboratory Environmental, LLCs' *Analytical Results* report is included as Attachment C.

Groundwater samples were analyzed for the site's constituents of concern (COCs). TPHd, TPHg, benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) results are summarized below in Table A.

Table A: Groundwater Analytical Data Summary

Well ID	TPHd µg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	MTBE µg/L
ESLs	100	100	1	40	13	20	5
MW-1	<110	<100	<1	<1	<1	<1	<1
MW-2	79 J	<100	<1	<1	<1	<1	<1
MW-3	62 J	<100	<1	<1	<1	<1	<1

µg/L Micrograms per liter
< Indicates constituent was not detected at or above laboratory reporting limit
NA Not analyzed
J Estimated value
Data in **bold** represent concentrations that exceed applicable ESL (Environmental Screening Levels).

Results of the groundwater sampling this quarter indicate the following:

- No COC was detected above ESLs in any of the wells sampled.

TPHd, TPHg, and BTEX analytical data are presented on Figure 2. Groundwater concentration and elevation graphs are presented in Attachment D.

Current groundwater analytical results indicate minimal petroleum impact, consistent with historical data.

3. Investigation Derived Waste

Purge water generated during well development and sampling activities was stored in a DOT-approved tote and then transported by G-R to their facility in Dublin, CA for temporary storage. The purge water will be transported to a Chevron-approved facility for disposal. Documentation of disposal activities for the first quarter sampling event are provided in Attachment E. Documentation for second quarter 2017 disposal activities will be provided separately once the waste has been removed for disposal.

4. Anticipated Future Activities

The following activities are anticipated at the site during third quarter 2017:

ACDEH has requested quarterly monitoring for four continuous quarters to determine groundwater conditions at the site, which GHD has completed. The second quarter 2017 sampling event is the last of four continuous quarters of sampling. The monitoring results indicate compliance with the low-threat closure policy. GHD is preparing a request for closure that will be submitted under separate cover.

We appreciate the opportunity to work with you on this project. Should you have any questions on the above, please do not hesitate to contact Matthew Davis at (253) 302-8281.

Sincerely,

GHD

Matthew Davis

Greg Barclay PG 6260

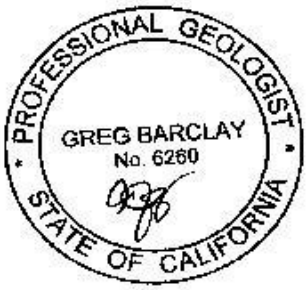

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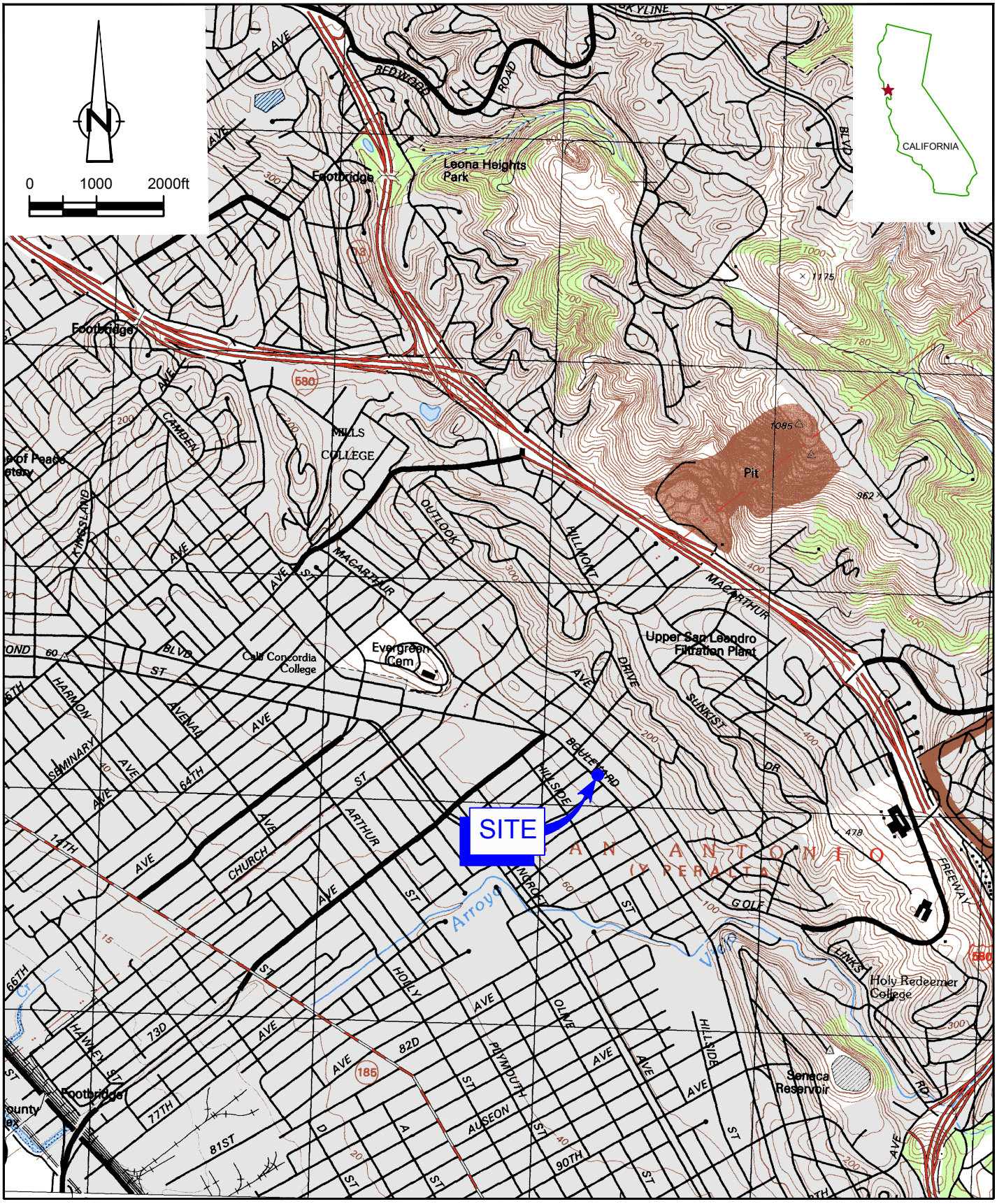
Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour and Hydrocarbon Map
Table 1	Cumulative Groundwater Elevation and Analytical Data
Table 2	Historical PAH Data
Table 3	Historical Metals Data
Attachment A	Agency Correspondence
Attachment B	G-R Well Development and Monitoring Data Sheets
Attachment C	Lancaster Analytical Reports
Attachment D	Groundwater Elevation and Concentration Graphs
Attachment E	Purge Water Disposal Documentation

cc: Ms. Brittany Frost, Chevron (*electronic copy*)
Mr. Ed Ralston, Phillips 66 (*electronic copy*)
Ms. Hong Gardner, Hong Gardner Trust (*electronic copy*)

Figures



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

FORMER CHEVRON-BRANDED SERVICE STATION 373378
7600 MACARTHUR BLVD
OAKLAND, CALIFORNIA

62164-95

Jul 4, 2017

VICINITY MAP

FIGURE 1

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LEGEND

- FENCE/PROPERTY LINE (APPROXIMATE)
- FORMER BUILDING LOCATION
- FORMER UST EXCAVATION (5 ft DEEP)
- FORMER UST
- MONITORING WELL LOCATION
- 75.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL), DASHED WHERE INFERRED
- 0.05 — GROUNDWATER FLOW DIRECTION AND GRADIENT

MW-3	WELL DESIGNATION
75.87	GROUNDWATER ELEVATION (FT MSL)
62 J	TPHd CONCENTRATION (µg/L)
<100	TPHg CONCENTRATION (µg/L)
<1	BENZENE CONCENTRATION (µg/L)
<1	TOLUENE CONCENTRATION (µg/L)
<1	ETHYLBENZENE CONCENTRATION (µg/L)
<1	TOTAL XYLENES CONCENTRATION (µg/L)

J — ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT

RESIDENTIAL

RESIDENTIAL

COMMERCIAL

76TH AVENUE

MACARTHUR BLVD

75.50

75.00

74.50

MW-2

MW-2
74.94
79 J
<100
<1
<1
<1
<1

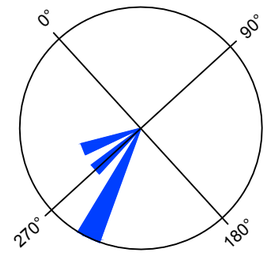
MW-3

MW-3
75.87
62 J
<100
<1
<1
<1
<1

MW-1

MW-1
74.17
<110
<100
<1
<1
<1
<1

0.05



HISTORICAL GROUNDWATER FLOW DIRECTION 2017

SOURCE: MORROW SURVEYING, OCTOBER 8, 2014.

0 10 20ft

GHD

FORMER CHEVRON-BRANDED SERVICE STATION 373378
7600 MACARTHUR BLVD
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - MAY 15, 2017

62164-95

Jul 20, 2017

FIGURE 2

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Tables

Table 1

Cumulative Groundwater Elevation and Analytical Data
Former Tidewater Service Station
Phillips 66 Site 5677
Chevron Site 373378
7600 MacArthur Blvd.
Oakland, California

Sample ID	Date Sampled	Well Elevation (ft-amsl)	Depth to Water (ft)	Groundwater Elevation (ft-amsl)	Depth to LPH (ft)	Product Thickness (feet)	TPH (µg/L)	DRO (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-1	7/28/2016[1]	89.45	22.62	66.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/5/2016	89.45	22.84	66.61	--	--	<5,000	260	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-1	12/15/2016	89.45	19.71	69.74	--	--	<5,000	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-1	2/16/2017	89.45	11.38	78.07	--	--	<5,000	<110	70 J	<1	<1	0.5 J	<1	<1	<1	<1	<1	<20
MW-1	**5/15/2017**	**89.45**	**15.28**	**74.17**	**--**	**--**	**<5,000**	**<110**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<20**
MW-2	7/28/2016[1]	90.35	23.06	67.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/5/2016	90.35	24.15	66.20	--	--	<5,000	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2	12/15/2016	90.35	20.57	69.78	--	--	<5,000	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2	2/16/2017	90.35	10.93	79.42	--	--	<5,000	57 J	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-2	**5/15/2017**	**90.35**	**15.41**	**74.94**	**--**	**--**	**<5,000**	**79 J**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<20**
MW-3	7/28/2016[1]	90.45	22.40	68.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/5/2016	90.45	22.91	67.54	--	--	1,500 J	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3	12/15/2016	90.45	20.11	70.34	--	--	<5,000	<100	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3	2/16/2017	90.45	10.85	79.60	--	--	<5,000	<110	<100	<1	<1	<1	<1	<1	<1	<1	<1	<20
MW-3	**5/15/2017**	**90.45**	**14.58**	**75.87**	**--**	**--**	**<5,000**	**62 J**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<20**
QA-T	8/5/2016	--	--	--	--	--	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--
QA-T	12/15/2016	--	--	--	--	--	--	--	<100	<1	<1	<1	--	<1	<1	<1	<1	<20
QA-T	2/16/2017	--	--	--	--	--	--	--	<100	<1	<1	<1	<1	<1	--	--	--	--
QA-T	**5/15/2017**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**<100**	**<1**	**<1**	**<1**	**<1**	**<1**	**--**	**--**	**--**	**--**

Table 1

Cumulative Groundwater Elevation and Analytical Data
Former Tidewater Service Station
Phillips 66 Site 5677
Chevron Site 373378
7600 MacArthur Blvd.
Oakland, California

Sample ID	Date Sampled	Well Elevation (ft-amsl)	Depth to Water (ft)	Groundwater Elevation (ft-amsl)	Depth to LPH (ft)	Product Thickness (feet)	TPH (µg/L)	DRO (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)

Abbreviations and Notes

amsl = above mean sea level
bgs = below ground surface
DIPE = Diisopropyl alcohol
ETBE = Ethyl tert-butyl ether
ID = Identification
LPH = Liquid phase hydrocarbons
MtBE = Methyl tertiary butyl ether
MRL = Method reporting limit
QA-T = Trip blank
RPD = Relative percent difference
TAME = Tert amylmethyl ether
TBA = Tert-butanol
TPH-DRO = Total Petroleum Hydrocarbons as Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics
TPH-MRO = Total Petroleum Hydrocarbons as Motor Oil Range Organics
µg/L = micrograms per liter
< = Less than MRL
'-- = Not applicable
j = Laboratory estimated value
1 = Well development performed

Table 2

SVOCs and PAH Data
Former Tidewater Service Station
Phillips 66 Site 5677
Chevron Site 373378
7600 MacArthur Blvd.
Oakland, California

		Additional SVOC's			PAH's															
Sample ID	**Date Sampled**	**1,2-Dichlorobenzene (o-Dichlorobenzene)** (µg/L)	**1,3-Dichlorobenzene** (µg/L)	**1,4-Dichlorobenzene** (µg/L)	**Acenaphthene** (µg/L)	**Acenaphthylene** (µg/L)	**Anthracene** (µg/L)	**Benzo(a)anthracene** (µg/L)	**Benzo(a)pyrene** (µg/L)	**Benzo(b)fluoranthene** (µg/L)	**Benzo(g,h,i)perylene** (µg/L)	**Benzo(k)fluoranthene** (µg/L)	**Chrysene** (µg/L)	**Dibenz(a,h)anthracene** (µg/L)	**Fluoranthene** (µg/L)	**Fluorene** (µg/L)	**Indeno(1,2,3-cd)Pyrene** (µg/L)	**Naphthalene** (µg/L)	**Phenanthrene** (µg/L)	**Pyrene** (µg/L)
MW-1	7/28/2016[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/5/2016	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1	12/15/2016	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1	2/16/2017	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1	**5/15/2017**	**<5**	**<5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-2	7/28/2016[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/5/2016	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	12/15/2016	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	2/16/2017	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	**5/15/2017**	**<5**	**<5**	**<5**	**3**	**1**	**0.9**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**0.9**	**3**	**<0.5**	**3**	**5**	**0.5 J**
MW-3	7/28/2016[1]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/5/2016	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	12/15/2016	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	2/16/2017	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	**5/15/2017**	**<5**	**<5**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
QA-T	8/5/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	12/15/2016	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	2/16/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	**5/15/2017**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 2

SVOCs and PAH Data
Former Tidewater Service Station
Phillips 66 Site 5677
Chevron Site 373378
7600 MacArthur Blvd.
Oakland, California

		Additional SVOC's			PAH's															
Sample ID	**Date Sampled**	**1,2-Dichlorobenzene (o-Dichlorobenzene)** (µg/L)	**1,3-Dichlorobenzene** (µg/L)	**1,4-Dichlorobenzene** (µg/L)	**Acenaphthene** (µg/L)	**Acenaphthylene** (µg/L)	**Anthracene** (µg/L)	**Benzo(a)anthracene** (µg/L)	**Benzo(a)pyrene** (µg/L)	**Benzo(b)fluoranthene** (µg/L)	**Benzo(g,h,i)perylene** (µg/L)	**Benzo(k)fluoranthene** (µg/L)	**Chrysene** (µg/L)	**Dibenz(a,h)anthracene** (µg/L)	**Fluoranthene** (µg/L)	**Fluorene** (µg/L)	**Indeno(1,2,3-cd)Pyrene** (µg/L)	**Naphthalene** (µg/L)	**Phenanthrene** (µg/L)	**Pyrene** (µg/L)

Abbreviations and Notes

ID = Identification
MRL = Method reporting limit
PAH = Polycyclic Aromatic Hydrocarbons
SVOC = Semi-Volatile Organic Compounds
µg/L = micrograms per liter
< = Less than MRL
-- = Not applicable
1 = Well development performed

Table 3

Metals Data
Former Tidewater Service Station
Phillips 66 Site 5677
Chevron Site 373378
7600 MacArthur Blvd.
Oakland, California

Sample ID	Date Sampled	Aluminum (µg/L)	Barium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Phosphorus (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Sulfur (µg/L)	Tin (µg/L)	Titanium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
MW-1	08/05/16	133 J	44.5	1,140	<5.0	52,300	2.4 J	<10.0	130 J	<15.0	22,300	151	3.7 J	3.2 J	37.8 J	15,300	<5.0	93,200	11,300	<20.0	8.4 J	22.4	<20.0
MW-1	12/15/16	<200	55.4	1,200	<5.0	55,300	2.0 J	<10.0	<200	<15.0	23,900	288	<10.0	<10.0	24.1 J	16,800	<5.0	99,800	11,400	<20.0	1.7 J	24.0	<20.0
MW-1	02/16/17	164 J	60.2	1,100	<5.0	53,800	<15.0	<10.0	182 J	<15.0	23,100	150	<10.0	3.9 J	20.2 J	17,100	<5.0	102,000	11,700	<20.0	5.8 J	24.9	5.6 J
MW-1	**05/15/17**	**<200**	**62.3**	**1,070**	**<5.0**	**55,300**	**<15.0**	**<10.0**	**200**	**<15.0**	**23,600**	**136**	**<10.0**	**2.8 J**	**27.8 J**	**16,600**	**<5.0**	**105,000**	**10,800**	**<20.0**	**3.0 J**	**23.8**	**<20.0**
MW-2	08/05/16	1,700	53.4	400	<5.0	52,100	7.1 J	11.3	1,740	<15.0	22,400	42	1.7 J	4.0 J	66.2 J	19,400	<5.0	100,000	15,500	<20.0	50.0	39.4	7.1 J
MW-2	12/15/16	<200	57.3	404	<5.0	58,400	3.2 J	4.2 J	172 J	<15.0	25,200	3.5 J	<10.0	<10.0	37.4 J	17,000	<5.0	99,800	15,700	<20.0	5.8 J	33.6	<20.0
MW-2	02/16/17	<200	43.2	383	<5.0	51,400	1.9 J	<10.0	<200	<15.0	22,300	<5	<10.0	<10.0	26.8 J	17,300	<5.0	111,000	15,200	<20.0	2.0 J	34.0	<20.0
MW-2	**05/15/17**	**<200**	**56.7**	**384**	**<5.0**	**56,400**	**2.5 J**	**<10.0**	**<200**	**<15.0**	**24,200**	**<5**	**<10.0**	**<10.0**	**39.1 J**	**16,400**	**<5.0**	**99,800**	**14,700**	**<20.0**	**2.9 J**	**30.1**	**<20.0**
MW-3	8/5/2016	<200	37.9	1,040	<5.0	58,900	2.8 J	<10.0	<200	<15.0	24,400	4.1 J	1.9 J	<10.0	54.0 J	13,900	<5.0	72,200	15,300	<20.0	6.9 J	22.7	<20.0
MW-3	12/15/2016	107 J	60.6	1,150	<5.0	63,900	3.1 J	4.6 J	<200	<15.0	26,700	3.4 J	<10.0	<10.0	41.0 J	15,600	<5.0	81,600	15,700	<20.0	3.6 J	26.7	<20.0
MW-3	2/16/2017	<200	62.7	895	<5.0	62,700	1.8 J	<10.0	<200	<15.0	26,300	7.1	<10.0	<10.0	21.9 J	16,400	<5.0	77,000	14,900	<20.0	3.3 J	28.5	<20.0
MW-3	**5/15/2017**	**<200**	**61.6**	**1,020**	**<5.0**	**59,700**	**15.0**	**<10.0**	**<200**	**<15.0**	**24,800**	**3.3 J**	**<10.0**	**<10.0**	**30.1 J**	**15,200**	**<5.0**	**74,400**	**14,000**	**<20.0**	**3.1 J**	**26.6**	**<20.0**
QA-T	8/5/2016	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--		--	--	--	--
QA-T	12/15/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	2/16/2017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	**5/15/2017**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 3

Metals Data
Former Tidewater Service Station
Phillips 66 Site 5677
Chevron Site 373378
7600 MacArthur Blvd.
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Sample ID	Date Sampled	Aluminum (µg/L)	Barium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Phosphorus (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Sulfur (µg/L)	Tin (µg/L)	Titanium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)

Abbreviations and Notes
ID = Identification
MRL = Method reporting limit
µg/L = micrograms per liter
< = Less than MRL
-- = Not applicable

Attachment A
Agency Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
REBECCA GEBHART, Acting Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-657

July 19, 2016

Ms. Jillian Holloway
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via E-mail to: JillianHolloway@chevron.com)

Ms. Hong Gardner
632 Via Rialto Road
Oakland, CA 94619
(Sent via E-mail to: honggardner@gmail.com)

Mr. Ed Ralston - Program Manager
Phillips 66 Company
76 Broadway
Sacramento, CA 95818
Sent via e-mail to: Ed.C.Ralston@p66.com

Subject: Technical Report Request for Fuel Leak Case RO0003087 and GeoTracker Global ID T10000003434, Hong Gardner Property, 7600 MacArthur Boulevard, Oakland, CA 94605-2944

Ladies and Gentlemen:

Alameda County Department Environmental Health's (ACDEH) has reviewed the case file in addition to the *Site Investigation Report and Closure Request* (Report) dated December 1, 2014 and the *Geophysical Survey, Sanborn Map Review, and Addendum to Work Plan for Site Investigation* (Work Plan) dated April 29, 2014. The reports were prepared and submitted on your behalf by Conestoga-Rovers & Associates, now renamed GHD, in reference to the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACDEH staff review, we have determined that the site does not meet the LTCP General Criteria f (Secondary Source Removal), Media-Specific Criteria for Groundwater, or Media-Specific Criteria for Vapor Intrusion to Indoor Air.

ACDEH requests preparation of a Data Gap Work Plan that is supported by an updated Site Conceptual Model (SCM) to address the following data gaps.

TECHNICAL COMMENTS

1. **General Criteria f – Secondary Source Has Been Removed to the Extent Practicable** – "Secondary source" is defined as petroleum-impacted soil or groundwater located at or immediately beneath the point of release from the primary source. Unless site attributes prevent secondary source removal (e.g. physical or infrastructural constraints exist whose removal or relocation would be technically or economically infeasible), petroleum-release sites are required to undergo secondary source removal to the extent practicable as described in the policy. "To the extent practicable" means implementing a cost-effective corrective action which removes or destroys-in-place the most readily recoverable fraction of source-area mass. It is expected that most secondary mass removal efforts will be completed in one year or less. Following removal or destruction of the secondary source, additional removal or active remedial actions shall not be required by regulatory agencies unless (1) necessary to abate a demonstrated threat to human health or (2) the groundwater plume does not meet the definition of low threat as described in this policy.

ACDEH's review of the case files indicates that insufficient data and analysis has been presented to assess compliance with General Criteria f. The Geophysical Report included as Attachment C in the Work Plan describes finding six "High Strength Conductive Pulse Anomalies with Magnetic Gradiometer signature response" including "two relatively large projection anomalies along the back or northeast of the former building area that are found end to end in symmetry". One of the Work Plan's goals was to identify the buried conductive anomalies by hand augering borings in the areas of the anomalies to approximately 5-6 feet below ground surface. The Report, however, does not include the boring logs of the seven hand augered soil borings, discuss the findings of the seven hand augered soil borings, or resolve the origin of the buried anomalies. Consequently, it has not been determined if secondary source remains at the site. Please present a strategy in the Updated Site Conceptual Model (SCM) and Data Gap Work Plan (described in Technical Comment 4 below) to address these Technical Comments and in an appendix include the boring logs of the seven hand augered soil borings. Alternatively, please provide justification of why the site satisfies this general criterion in the focused SCM described in Technical Comment 4 below.

2. **LTCP Media Specific Criteria for Groundwater** – To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives 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 policy.

   Our review of the case files indicate that the three groundwater monitoring wells, MW-1 through MW-3, were installed in September and October 2014 and according to the Work Plan, were to be sampled on a quarterly basis for the first year. Grab groundwater samples were obtained from each well during installation, but the wells were not developed or sampled. Therefore, insufficient data and analysis has been presented to support the requisite characteristics of groundwater gradient direction, plume stability, and length. Please present a strategy in the Updated SCM and Data Gap Work Plan discussed in Technical Comment 4 to determine groundwater plume stability and length.

   a. **Monitoring Well Development and Quarterly Sampling and Rose Diagram**: Please develop the three wells and sample for a minimum of four quarters to establish groundwater gradient direction, existence of a plume, plume stability, and length; Please prepare a rose diagram using data from each sampling event to confirm the groundwater gradient consistency and please provide an updated rose diagram with every quarterly sampling event;

   b. **Groundwater Concentration and Elevation Graphs**: Please provide graphs indicating groundwater concentrations and groundwater elevations together with each sampling event;

   c. **Baseline Analytical**: To establish a baseline, on a one-time basis and in the future, on an as needed basis, please analyze all groundwater samples for the full suite of Volatile Organic Compounds (VOCs) and please ensure detection limits are below proposed cleanup levels;

   d. **LTCP Plume Lengths**: To present another line of evidence supporting plume lengths, please prepare a figure indicating the average, 90th percentile, and maximum plume lengths for TPHg, benzene, and MTBE by referencing Table 1: *Plume Characteristics*, in the LTCP's *Technical Justification for Groundwater Media-Specific Criteria*. As shown in Attachment 2, *Sample Figures of Adjacent Buildings with Basements, LTCP Plume Lengths, and Well Survey,* please include the locations of the six water production wells identified in the one mile well survey included in the Report.

   e. **Investigation-Derived Waste**: Please submit the disposal documentation for the soil cuttings, rinsate water, and forth-coming well development and quarterly sampling events to ACDEH and to Geotracker, as described below.

3. **LTCP Media Specific Criteria for Vapor Intrusion to Indoor Air** – The LTCP describes conditions, including bioattenuation (unsaturated) zones, which if met will assure that exposure to petroleum vapors in indoor air will not pose unacceptable health risks to human occupants of existing or future site buildings, and adjacent parcels. Appendices 1 through 4 of the LTCP criteria illustrate four potential exposure scenarios and describe characteristics and criteria associated with each scenario.

   Our review of the case files indicates that the risk of vapor intrusion cannot be assessed due to the uncertainty that the secondary source(s) were removed. Therefore, ACDEH requests an evaluation of the media-specific criteria in the updated SCM and Data Gap Work Plan. Please assess potential vapor intrusion to indoor air to the adjacent residences.

   If soil vapor wells are proposed, please ensure that your sampling strategy is consistent with the field sampling protocols described in the Department of Toxic Substances Control's Final Vapor Intrusion Guidance (October 2011) and the updated February 22, 2016 San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels Version 3. Consistent with the guidance, ACDEH requires installation of permanent vapor wells to assess temporal and seasonal variations in soil gas concentrations. Please include the soil vapor investigation with the Updated SCM and Data Gap Work Plan requested below.

4. **Data Gap Investigation Work Plan and Site Conceptual Model** – Please prepare a Data Gap Investigation Work Plan to address the technical comments listed above. Please support the scope of work in the Data Gap Investigation Work Plan with a focused SCM and Data Quality Objectives (DQOs) that relate the data collection to each LTCP criteria.

   As a part of updating the SCM, please include a rose diagram and locations of houses and buildings that have basements in the immediate downgradient direction of the site similar to the example provided in Attachment 2, *Sample Figures of Adjacent Buildings with Basements, LTCP Plume Lengths, and Well Survey*.

5. **Request for information** - The ACDEH case file for the subject site contains only the electronic files listed on our web site at http://www.acgov.org/ACDEH/lop/ust.htm. You are requested to submit electronic copies of all other reports including Phase I Reports, data, correspondence, etc. related to environmental investigations for this property not currently contained in our case file by the date specified in the Technical Report Request Section below. ACDEH requests e-mail notification of, and a list of the documents uploaded to Geotracker by the date listed below.

6. **Electronic Submittal of Information (ESI) Compliance** - Site data and documents are maintained in two separate electronic databases – ACDEH's ftp site and the SWRCB's GeoTracker database. Both databases act as repositories for regulatory directives and reports; however, only GeoTracker has the functionality to store electronic compliance data including analytical laboratory data for soil, vapor and water samples, monitoring well depth-to-water measurements, and surveyed location and elevation data for permanent sampling locations. Although the SWRCB is responsible for the overall operation and maintenance of the GeoTracker System, ACDEH, as lead regulatory agency, is responsible to ensure the GeoTracker database is complete and accurate for sites regulated under ACDEH's Environmental Cleanup Oversight Programs (SWRCB March 2011 document entitled *Electronic Reporting Roles and Responsibilities*).

   A review of the case file and the State's GeoTracker database indicates that the site is not in compliance with California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, stating that beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the SWRCB GeoTracker system via the internet. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all

groundwater cleanup programs, including the Site Cleanup Program (SCP) cases. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites was required in GeoTracker. At present missing data and documents include, but may not be limited to, EDF submittals, depth to groundwater data (GEO_WELL files), well data (GEO_XY, and GEO_Z files), work plans, and older reports (GEO_REPORT files). Please upload requisite documents and data to GeoTracker. See Attachment 1 and the State's GeoTracker website for further details.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACDEH 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 20, 2016** – 3rd Quarterly Groundwater Monitoring and Sampling Report, Well Development, and Waste Disposal
  File to be named: RO3087_GWM_R_yyyy-mm-dd

- **September 20, 2016** – Updated Site Conceptual Model and Data Gap Work Plan
  File to be named: RO3087_SCM_WP_yyyy-mm-dd

- **January 20, 2017** – 4th Quarterly Monitoring and Sampling Report and Waste Disposal
  File to be named: RO3087_GWM_R_yyyy-mm-dd

- **May 20, 2017** – 1st Quarterly Monitoring and Sampling Report and Waste Disposal
  File to be named: RO3087_GWM_R_yyyy-mm-dd

- **September 20, 2017** –2nd Quarterly Monitoring and Sampling Report and Waste Disposal
  File to be named: RO3087_GWM_R_yyyy-mm-dd

These reports are 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.

Sincerely,

Karel Detterman

Digitally signed by Karel Detterman
DN: cn=Karel Detterman, o, ou, email=karel.detterman@acgov.org, c=US
Date: 2016.07.19 16:16:17 -07'00'

Karel Detterman, PG
Hazardous Materials Specialist

Enclosures: Attachment 1 – *Responsible Party (ies) Legal Requirements / Obligations and Electronic Report Upload (ftp) Instructions*

Attachment 2, *Sample Figures of Adjacent Buildings with Basements, LTCP Plume Lengths, and Well Survey*

cc: Matthew Davis, LG, 732 Broadway Suite 301, Tacoma, WA 98402 (Sent via E-mail to: matthew.davis@ghd.com)

Donald Schwartz, Esq., 7960-B Soquel Drive, No. 291, Aptos, CA 95003 (Sent via E-mail to: donald@lawofficedonaldschwartz.com)

Dilan Roe, ACDEH (Sent via E-mail to: dilan.roe@acgov.org)

Karel Detterman, ACDEH (Sent via E-mail to: karel.detterman@acgov.org)

Electronic File, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are 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.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

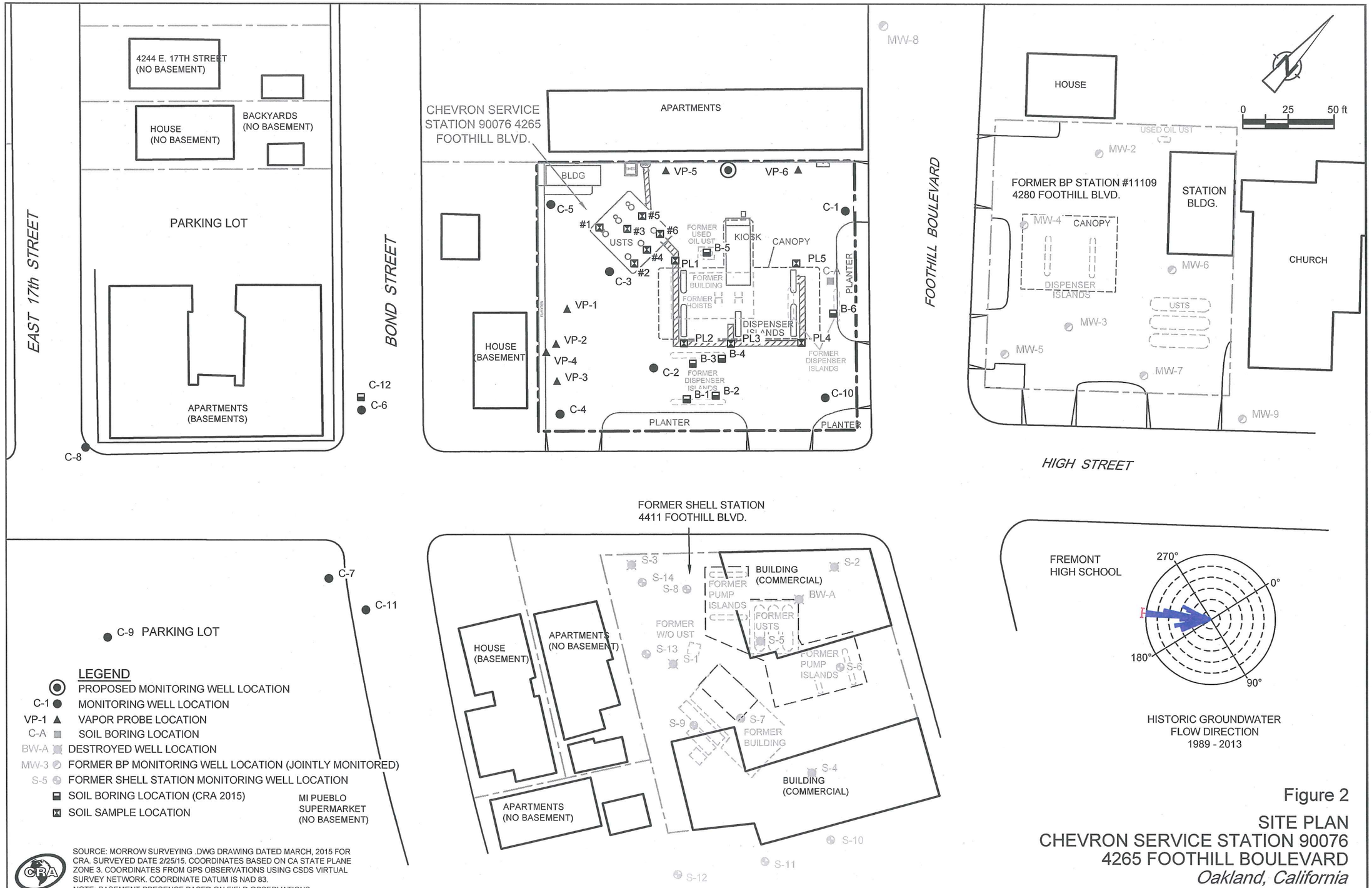
Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to deh.loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT 2



311977-2014(018)GN-SO002 MAR 31/2015

Figure 2

SITE PLAN
CHEVRON SERVICE STATION 90076
4265 FOOTHILL BOULEVARD
Oakland, California

Stantec

15575 LOS GATOS BLVD, BUILDING C
LOS GATOS, CALIFORNIA 95032
PHONE: (408) 356-6124 FAX: (408) 356-6138

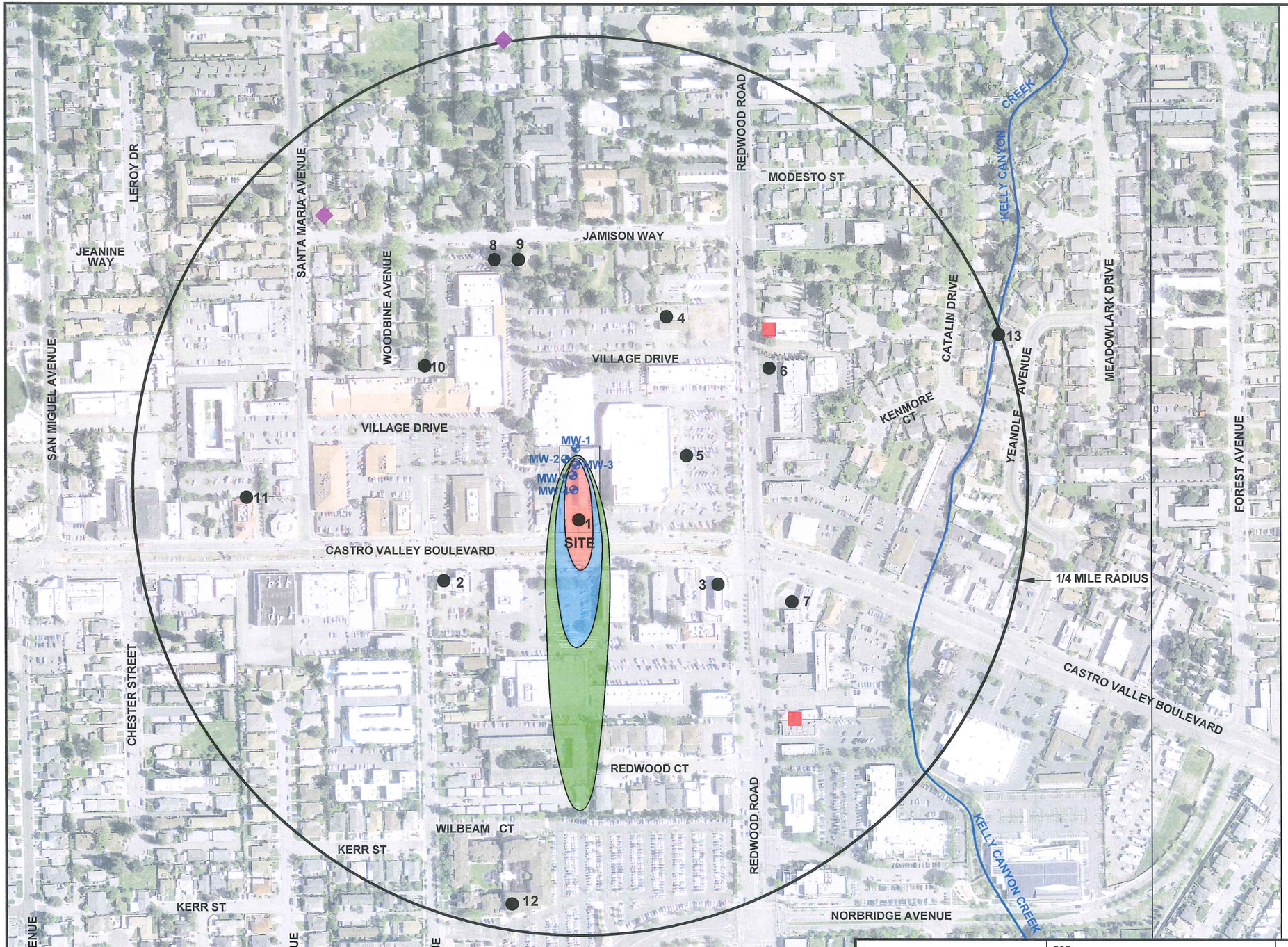
FOR: THE GOODYEAR TIRE AND RUBBER CO.

POTENTIAL BENZENE PLUME LENGTHS BASED ON LTCP TECHNICAL JUSTIFICATION GOODYEAR DEX #9578 3430 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA

FIGURE: 10

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702872	KAM	KM	GM	01/08/15

FILEPATH:W:\ACTIVE OFFICE LOS GATOS\GIS\mxd\e\r\66050- CASTRO VALLEY\185702724 SCM 2013\185702872-R15S.mxd KMitchell 09, 2015 15:38 Layout: FIGURE 10- BENZENE



LEGEND:

- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- SCHOOLS WITHIN 1/4-MILE OF SITE
- ACTIVE GROUNDWATER MONITORING WELL LOCATION
- DESTROYED GROUNDWATER MONITORING WELL LOCATION
- AVERAGE PLUME LENGTH (5 ug/L)
- 90TH PERCENTILE PLUME LENGTH (5 ug/L)
- MAXIMUM PLUME LENGTH (5 ug/L)

N

0 300 600

APPROXIMATE SCALE (FEET)

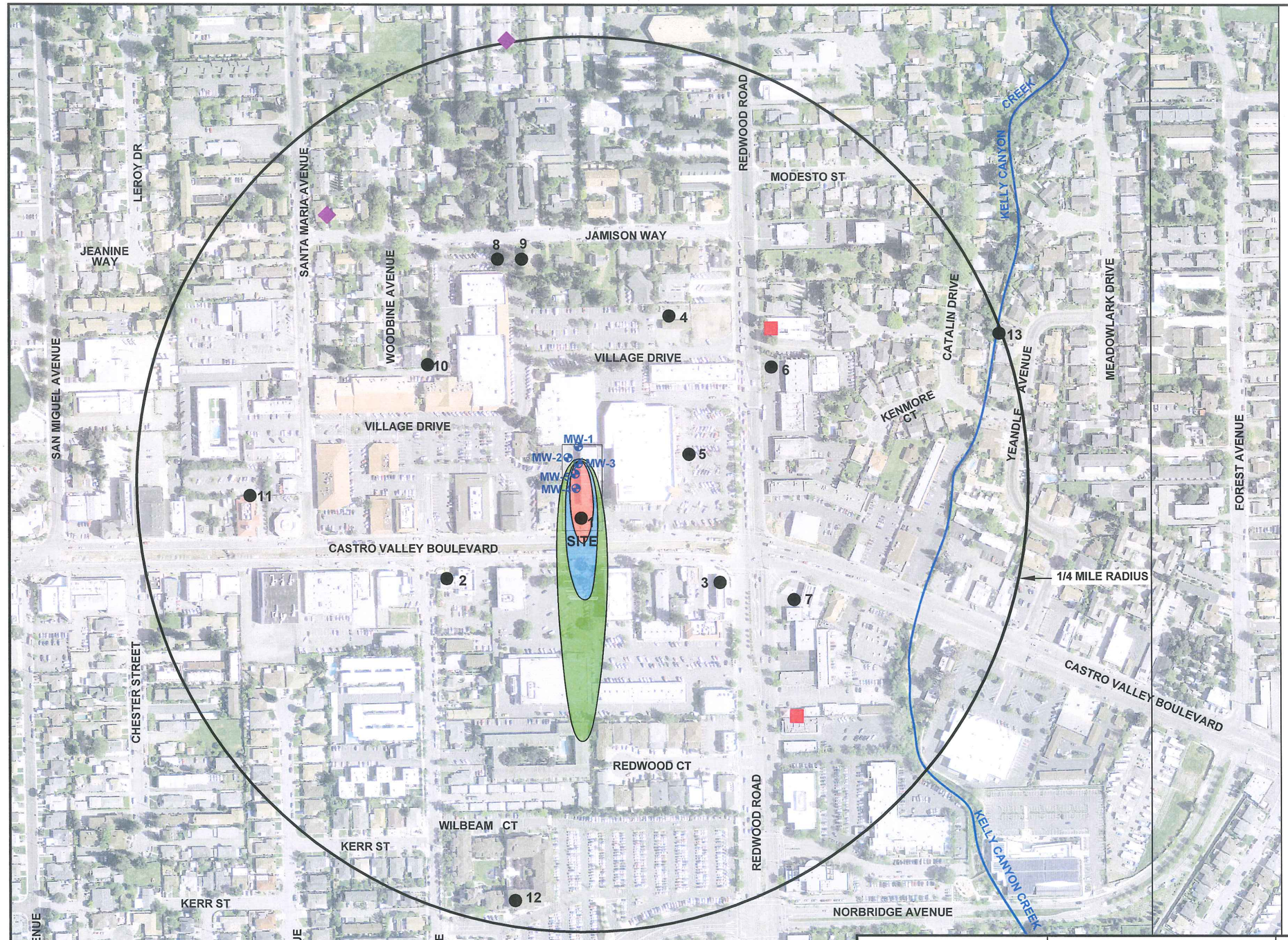
Stantec
15575 LOS GATOS BLVD, BUILDING C
LOS GATOS, CALIFORNIA 95032
PHONE: (408) 356-6124 FAX: (408) 356-6138

FOR: THE GOODYEAR TIRE AND RUBBER CO.

POTENTIAL MTBE PLUME LENGTHS BASED ON LTCP TECHNICAL JUSTIFICATION GOODYEAR DEX #9578 3430 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA

FIGURE: 11

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702872	KAM	KM	GM	01/08/15

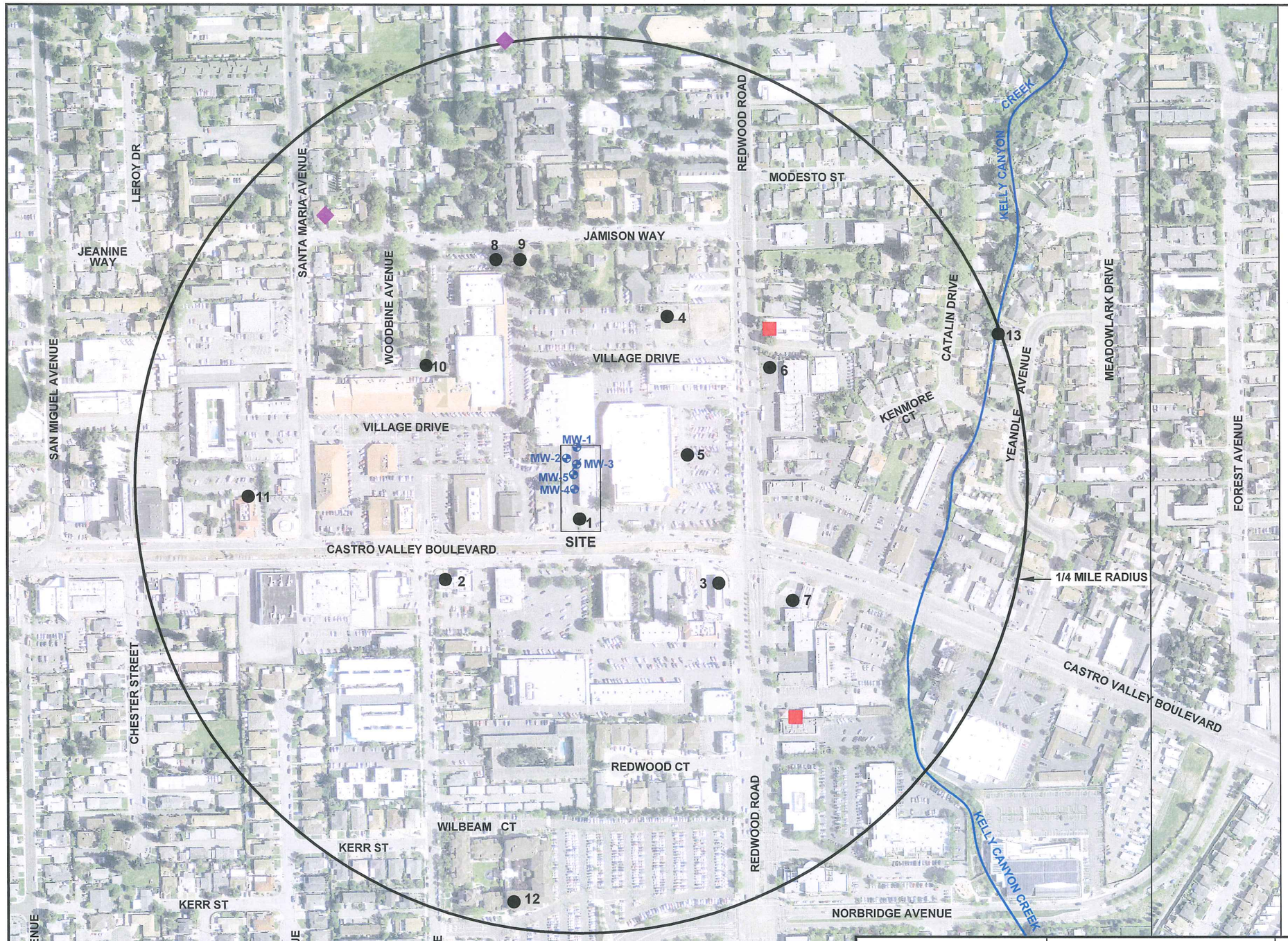


Stantec

15575 LOS GATOS BLVD, BUILDING C
LOS GATOS, CALIFORNIA 95032
PHONE:(408) 356-6124 FAX:(408) 356-6138

FOR:		POTENTIAL TPHg PLUME LENGTHS BASED ON LTCP TECHNICAL JUSTIFICATION GOODYEAR DEX #9578 3430 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA		FIGURE:
THE GOODYEAR TIRE AND RUBBER CO.				12
JOB NUMBER: 185702872	DRAWN BY: KAM	CHECKED BY: KM	APPROVED BY: GM	DATE: 01/08/15

FILEPATH:W:\ACTIVE OFFICE LOS GATOS\G\dre\r66050- CASTRO VALLEY\185702724 SCM 2013\185702872-R15S.dgKMit\e\J 09, 2015 t 15:51 l\out: FIGURE 12- TPHG



LEGEND:

- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
- MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
- SCHOOLS WITHIN 1/4-MILE OF SITE
- ACTIVE GROUNDWATER MONITORING WELL LOCATION
- DESTROYED GROUNDWATER MONITORING WELL LOCATION

N

0 300 600

APPROXIMATE SCALE (FEET)

Stantec
15575 LOS GATOS BLVD, BUILDING C
LOS GATOS, CALIFORNIA 95032
PHONE: (408) 356-6124 FAX: (408) 356-6138

FOR: THE GOODYEAR TIRE AND RUBBER CO.

WELL & SENSITIVE RECEPTOR SURVEY
GOODYEAR DEX #9578
3430 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

FIGURE: 6

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702872	KAM	KM	GM	01/08/15

FILEPATH:W:\ACTIVE OFFICE LOS GATOS\GIS\mxd\66050- CASTRO VALLEY\185702724 SCM 2013\185702872-R15S.mxd KMitchell 09, 2015 15:52 Layout: FIGURE 6

APPENDIX C
Wells Survey Results
Former Goodyear Tire Store
3430 Castro Valley Boulevard
Castro Valley, CA

	Owner/Site Name	Well Type	Drill Date	Total Depth	Address	Approximate Distance/Direction From Site
1	Merritt Tire Sale	Monitoring Wells	Sept 94, Dec 96, Aug 12	16-20	3430 Castro Valley Blvd.	0
2	CHEVRON #9-4930 / VALLEY CAR WASH	Monitoring Well	Oct-93	20	3369 Castro Valley Blvd.	460 SW
3	Ted Simas (XTRA OIL DBA SHELL STATION)	Monitoring Wells	Feb 90 & Aug 97	18-20	3495 Castro Valley Blvd.	510 SE
4	R. T. Nahas Company (UNOCAL)	Monitoring Wells	Dec 89	25-30	20405 Redwood Rd.	520 NE
5	R. T. Nahas Company	Monitoring Wells	Apr 92	29-37	20629 Redwood Rd	310 E
6	Exxon Oil	Unknown	?	?	20450 Redwood Rd.	650 NE
7	BP #11105 / SHELL 17-1445	Monitoring Well	Sept 92, July 95, Aug 09,	15-30	3519 Castro Valley Blvd.	700 SE
8	R. T. Nahas Company	Domestic/Destroyed	Dec 75	56	3559 JAMISON WAY	700 NNW
9	R. T. Nahas Company	Destroyed	?	20 & 25	3533 JAMISON WAY	725 NNW
10	Horseshoe Drilling	Destroyed	Apr 96	20	20342 Woodbine Ave	600 NW
11	Mitzi Stockel	BOR/MON	Apr-90	8-23	3234 Castro Valley Blvd	1000 W
12	BART	Monitoring Well	Feb 93	16	21000 Wilbeam Ave.	1225 SSW
13	Robert D Rousey	Irrigation	May-77	28	20283 Yeandle Ave.	1325 ENE

Attachment B
Monitoring Data Package

GETTLER-RYAN INC.

TRANSMITTAL

May 24, 2017
G-R #17155905

TO: Mr. Matt Davis
GHD
732 Broadway, Suite 301
Tacoma, WA 98402

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Tidewater Service Station
Chevron #373378
7600 MacArthur Blvd.
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Report **Second Quarter Event of May 15, 2017**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

Trans 373378

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #373378**
Site Address: **7600 Macarthur Blvd.**
City: **Oakland, CA**

Job #: **17155905**
Event Date: 5.15.17
Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y (N)	REPLACE CAP Y (N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-1	OK	→	→	→	→	→	→	↓	↓	Mansun/ 8" / 2	
MW-2	OK	→	→	→	→	→	→			↓ ↓	
MW-3	OK	→	→	→	→	→	→				

Comments

STANDARD OPERATING PROCEDURE
GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells. Total well depths are measured annually.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

The purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #373378 | Job Number: 17155905
Site Address: 7600 Macarthur Blvd. | Event Date: 5.15.17 (inclusive)
City: Oakland, CA | Sampler: FF

Well ID: MW-1 | Date Monitored: 5.15.17
Well Diameter: 2 in.
Total Depth: 35.66 ft.
Depth to Water: 15.28 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

20.38 xVF .17 = 3.46 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.35

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	✓
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 1215 | Weather Conditions: SUNNY
Sample Time/Date: 1253 / 5.15.17 | Water Color: CLEAR | Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. | Sediment Description: NONE
Did well de-water? No | If yes, Time: _____ | Volume: _____ gal. | DTW @ Sampling: 16.07

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1223	3.5	7.68	782	20.0		
1231	7.0	7.72	800	20.3		
1238	10.0	7.76	819	20.6	✓	✓

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/FULL LIST VOC's(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO(8015)
	2 x 1 liter WM glass	YES	HCL	EUROFINS	OIL & GREASE SGT-HEM(1664A)
	2 x 250ml ambers	YES	NP	EUROFINS	PAH's(8270)
	2 x 250ml ambers	YES	NP	EUROFINS	NAPHTHALENE(8270)
	1 x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED WEAR METALS(6010)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #373378 Job Number: 17155905
Site Address: 7600 Macarthur Blvd. Event Date: 5.15.17 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-2 Date Monitored: 5.15.17
Well Diameter 2 in.
Total Depth 36.02 ft.
Depth to Water 15.41 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

20.61 xVF .17 = 3.50 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.53

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	✓
Stack Pump		Metal Filters	✓
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1115 Weather Conditions: SUNNY
Sample Time/Date: 1152 / 5.15.17 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: / gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 19.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1123	3.5	7.75	781	20.1		
1131	7.0	7.79	760	20.5		
1139	11.0	7.83	745	20.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/FULL LIST VOC's(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO(8015)
	2 x 1 liter WM glass	YES	HCL	EUROFINS	OIL & GREASE SGT-HEM(1664A)
	2 x 250ml ambers	YES	NP	EUROFINS	PAH's(8270)
	2 x 250ml ambers	YES	NP	EUROFINS	NAPHTHALENE(8270)
	1 x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED WEAR METALS(6010)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #373378 Job Number: 17155905
Site Address: 7600 Macarthur Blvd. Event Date: 5.15.17 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-3 Date Monitored: 5.15.17
Well Diameter 2 in.
Total Depth 35.50 ft.
Depth to Water 14.58 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

20.92 xVF .17 = 3.55 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.76

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	✓
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1015 Weather Conditions: SUNNY
Sample Time/Date: 1055 15.15.17 Water Color: CLEAR Odor: Y (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 18.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1023	3.5	7.83	725	19.1		
1031	7.0	7.78	771	19.0		
1039	11.0	7.73	809	19.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	EUROFINS	TPH-GRO(8015)/FULL LIST VOC's(8260)
	2 x 500ml ambers	YES	NP	EUROFINS	TPH-DRO(8015)
	2 x 1 liter WM glass	YES	HCL	EUROFINS	OIL & GREASE SGT-HEM(1664A)
	2 x 250ml ambers	YES	NP	EUROFINS	PAH's(8270)
	2 x 250ml ambers	YES	NP	EUROFINS	NAPHTHALENE(8270)
	1 x 250ml poly	YES	HNO3	EUROFINS	DISSOLVED WEAR METALS(6010)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

1 of 1

SCR #: _____

Client Information

Facility # SS#373378-OML WBS G-R#17155905 Global ID#T10000003434

Site Address 7600 MACARTHUR BLVD., OAKLAND, CA

Chevron PM GHDMD

Lead Consultant Davis

Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, deanna@grinc.com

Consultant Phone # (925) 551-7444 x180

Sampler FRANK TERMINONI

Matrix

Soil ☐ Sediment ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Water ☐ Air ☐ Oil

Analyses Requested

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Ground Water	Surface Water	Potable Water	NPDES	Air	Oil	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH-GRO 8260 ☐ 8015 ☒	TPH-DRO 8015 without Silica Gel Cleanup ☒	TPH-DRO 8015 with Silica Gel Cleanup ☐	8260 Full List VOCs	Oxygenates	Total Lead	Dissolved Lead Method WEAR METALS (6010)	OIL & GREASE SGT-HEM (1664)	PAHs (8270)	NAPHTHALENE (8270)
QA		17.5.15						W						2	X	X									
MW-1		↓	1253	X				↓						15		X	X		X			X	X	X	X
MW-2			1152	X										15		X	X		X			X	X	X	X
MW-3			1055	X										15		X	X		X			X	X	X	X

Results in Dry Weight ☐
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 ☐

Remarks

WEAR METALS TO REPORT ARE: Al, Ba, B, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mo, Mn, Ni, P, Si, Ag, Na, S, Sn, Tl, V and Zn

Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day
72 hour 48 hour 24 hour

Data Package (circle if required) **EDF/EDD**

Type I - Full Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	17.5.15		[signature]	5/15/17	1440
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by	Date	Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Attachment C
Laboratory Analytical Report

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

Report Date: May 26, 2017

Project: 373378 Tidewater Oakland

Submittal Date: 05/16/2017
Group Number: 1801815
PO Number: 4072862
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-170515 Water	8995362
MW-1-W-170515 Grab Groundwater	8995363
MW-2-W-170515 Grab Groundwater	8995364
MW-3-W-170515 Grab Groundwater	8995365

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To	Gettler-Ryan, Inc.	Attn: Gettler Ryan
Electronic Copy To	GHD	Attn: Matt Davis
Electronic Copy To	Chevron	Attn: Report Contact
Electronic Copy To	GHD	Attn: Chevron EDF

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-170515 Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995362
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBOQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

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
10945	BTEX/MTBE	SW-846 8260B	1	Z171382AA	05/18/2017 07:50	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z171382AA	05/18/2017 07:50	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17142B20A	05/23/2017 02:48	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17142B20A	05/23/2017 02:48	Jeremy C Giffin	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995363
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 12:53 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
10335	Benzene	71-43-2	N.D.	0.5	1	1
10335	Bromobenzene	108-86-1	N.D.	1	5	1
10335	Bromochloromethane	74-97-5	N.D.	1	5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
10335	Bromoform	75-25-2	N.D.	0.5	4	1
10335	Bromomethane	74-83-9	N.D.	0.5	1	1
10335	2-Butanone	78-93-3	N.D.	3	10	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	20	1
10335	n-Butylbenzene	104-51-8	N.D.	1	5	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	5	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	5	1
10335	Carbon Disulfide	75-15-0	N.D.	1	5	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1	1
10335	Chloroethane	75-00-3	N.D.	0.5	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	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	1
10335	Chloromethane	74-87-3	N.D.	0.5	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	5	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	5	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
10335	Ethanol	64-17-5	N.D.	50	250	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995363
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 12:53 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10335	2-Hexanone	591-78-6	N.D.	3	10	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
10335	Isopropylbenzene	98-82-8	N.D.	1	5	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	4	1
10335	Naphthalene	91-20-3	N.D.	1	5	1
10335	n-Propylbenzene	103-65-1	N.D.	1	5	1
10335	Styrene	100-42-5	N.D.	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
10335	Toluene	108-88-3	N.D.	0.5	1	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
10335	o-Xylene	95-47-6	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	ug/l	
14249	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14249	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14249	Anthracene	120-12-7	N.D.	0.1	0.5	1
14249	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14249	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14249	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14249	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14249	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14249	Chrysene	218-01-9	N.D.	0.1	0.5	1
14249	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14249	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14249	Fluorene	86-73-7	N.D.	0.1	0.5	1
14249	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14249	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14249	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14249	Pyrene	129-00-0	N.D.	0.1	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995363
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 12:53 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO01

CAT No.	Analysis Name		CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28		n.a.	N.D.		50	110	1
Metals		**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	0.136		0.0018	0.0050	1
		SW-846 6010B		**ug/l**		**ug/l**	**ug/l**	
01743	Aluminum		7429-90-5	N.D.		86.8	200	1
07046	Barium		7440-39-3	62.3		1.1	5.0	1
08014	Boron		7440-42-8	1,070		8.3	50.0	1
07049	Cadmium		7440-43-9	N.D.		0.49	5.0	1
01750	Calcium		7440-70-2	55,300		38.2	200	1
07051	Chromium		7440-47-3	N.D.		1.8	15.0	1
07053	Copper		7440-50-8	N.D.		4.1	10.0	1
01754	Iron		7439-89-6	N.D.		74.7	200	1
07055	Lead		7439-92-1	N.D.		6.2	15.0	1
01757	Magnesium		7439-95-4	23,600		19.0	100	1
07060	Molybdenum		7439-98-7	N.D.		1.7	10.0	1
07061	Nickel		7440-02-0	2.8	J	2.8	10.0	1
10143	Phosphorus		7723-14-0	27.8	J	10.0	100	1
01765	Silicon		7440-21-3	16,600		19.2	50.0	1
07066	Silver		7440-22-4	N.D.		1.9	5.0	1
01767	Sodium		7440-23-5	105,000		173	1,000	1
12004	Sulfur		7704-34-9	10,800		83.3	500	1
07069	Tin		7440-31-5	N.D.		7.1	20.0	1
07070	Titanium		7440-32-6	3.0	J	1.3	10.0	1
07071	Vanadium		7440-62-2	23.8		1.6	5.0	1
07072	Zinc		7440-66-6	N.D.		5.4	20.0	1
Wet Chemistry		**EPA 1664A**		**ug/l**		**ug/l**	**ug/l**	
00612	SGT-HEM (TPH)		n.a.	N.D.		1,400	5,000	1

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
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W171451AA	05/25/2017 17:15	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W171451AA	05/25/2017 17:15	Linda C Pape	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995363
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 12:53 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14249	PAHs 8270C Water	SW-846 8270C	1	17137WAL026	05/18/2017 09:19	Joseph M Gambler	1
07807	BNA Water Extraction	SW-846 3510C	1	17137WAL026	05/17/2017 21:10	Christine Gleim	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17142B20A	05/23/2017 04:38	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17142B20A	05/23/2017 04:38	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	171370017A	05/18/2017 17:38	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	171370017A	05/17/2017 18:00	Ryan J Dowdy	1
01743	Aluminum	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07046	Barium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
08014	Boron	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07049	Cadmium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
01750	Calcium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07051	Chromium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07053	Copper	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
01754	Iron	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07055	Lead	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
01757	Magnesium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07058	Manganese	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07060	Molybdenum	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07061	Nickel	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
10143	Phosphorus	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
01765	Silicon	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07066	Silver	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
01767	Sodium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
12004	Sulfur	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07069	Tin	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07070	Titanium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07071	Vanadium	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
07072	Zinc	SW-846 6010B	1	171370184802	05/18/2017 11:31	Scott R Yanos	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	171370184802	05/18/2017 00:55	Denise L Trimby	1
00612	SGT-HEM (TPH)	EPA 1664A	1	17138807801A	05/18/2017 10:39	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995364
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 11:52 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
10335	Benzene	71-43-2	N.D.	0.5	1	1
10335	Bromobenzene	108-86-1	N.D.	1	5	1
10335	Bromochloromethane	74-97-5	N.D.	1	5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
10335	Bromoform	75-25-2	N.D.	0.5	4	1
10335	Bromomethane	74-83-9	N.D.	0.5	1	1
10335	2-Butanone	78-93-3	N.D.	3	10	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	20	1
10335	n-Butylbenzene	104-51-8	N.D.	1	5	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	5	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	5	1
10335	Carbon Disulfide	75-15-0	N.D.	1	5	1
10335	Carbon Tetrachloride	56-23-5	2	0.5	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1	1
10335	Chloroethane	75-00-3	N.D.	0.5	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	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	1
10335	Chloromethane	74-87-3	N.D.	0.5	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	5	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	5	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
10335	Ethanol	64-17-5	N.D.	50	250	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995364
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 11:52 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	2-Hexanone	591-78-6	N.D.		3	10	1
10335	di-Isopropyl ether	108-20-3	N.D.		0.5	1	1
10335	Isopropylbenzene	98-82-8	N.D.		1	5	1
10335	p-Isopropyltoluene	99-87-6	N.D.		1	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.		3	10	1
10335	Methylene Chloride	75-09-2	N.D.		2	4	1
10335	Naphthalene	91-20-3	N.D.		1	5	1
10335	n-Propylbenzene	103-65-1	N.D.		1	5	1
10335	Styrene	100-42-5	N.D.		1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1	1
10335	Tetrachloroethene	127-18-4	N.D.		0.5	1	1
10335	Toluene	108-88-3	N.D.		0.5	1	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	5	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1	1
10335	Trichloroethene	79-01-6	N.D.		0.5	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.		0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.		1	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	5	1
10335	Vinyl Chloride	75-01-4	N.D.		0.5	1	1
10335	m+p-Xylene	179601-23-1	N.D.		0.5	1	1
10335	o-Xylene	95-47-6	N.D.		0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	
14249	Acenaphthene	83-32-9	3		0.1	0.5	1
14249	Acenaphthylene	208-96-8	1		0.1	0.5	1
14249	Anthracene	120-12-7	0.9		0.1	0.5	1
14249	Benzo(a)anthracene	56-55-3	N.D.		0.1	0.5	1
14249	Benzo(a)pyrene	50-32-8	N.D.		0.1	0.5	1
14249	Benzo(b)fluoranthene	205-99-2	N.D.		0.1	0.5	1
14249	Benzo(g,h,i)perylene	191-24-2	N.D.		0.1	0.5	1
14249	Benzo(k)fluoranthene	207-08-9	N.D.		0.1	0.5	1
14249	Chrysene	218-01-9	N.D.		0.1	0.5	1
14249	Dibenz(a,h)anthracene	53-70-3	N.D.		0.1	0.5	1
14249	Fluoranthene	206-44-0	0.9		0.1	0.5	1
14249	Fluorene	86-73-7	3		0.1	0.5	1
14249	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.1	0.5	1
14249	Naphthalene	91-20-3	3		0.1	0.5	1
14249	Phenanthrene	85-01-8	5		0.1	0.5	1
14249	Pyrene	129-00-0	0.5	J	0.1	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.		50	100	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995364
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 11:52 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO02

CAT No.	Analysis Name		CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28		n.a.	79	J	50	100	1
Metals		**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	N.D.		0.0018	0.0050	1
		SW-846 6010B		**ug/l**		**ug/l**	**ug/l**	
01743	Aluminum		7429-90-5	N.D.		86.8	200	1
07046	Barium		7440-39-3	56.7		1.1	5.0	1
08014	Boron		7440-42-8	384		8.3	50.0	1
07049	Cadmium		7440-43-9	N.D.		0.49	5.0	1
01750	Calcium		7440-70-2	56,400		38.2	200	1
07051	Chromium		7440-47-3	2.5	J	1.8	15.0	1
07053	Copper		7440-50-8	N.D.		4.1	10.0	1
01754	Iron		7439-89-6	N.D.		74.7	200	1
07055	Lead		7439-92-1	N.D.		6.2	15.0	1
01757	Magnesium		7439-95-4	24,200		19.0	100	1
07060	Molybdenum		7439-98-7	N.D.		1.7	10.0	1
07061	Nickel		7440-02-0	N.D.		2.8	10.0	1
10143	Phosphorus		7723-14-0	39.1	J	10.0	100	1
01765	Silicon		7440-21-3	16,400		19.2	50.0	1
07066	Silver		7440-22-4	N.D.		1.9	5.0	1
01767	Sodium		7440-23-5	99,800		173	1,000	1
12004	Sulfur		7704-34-9	14,700		83.3	500	1
07069	Tin		7440-31-5	N.D.		7.1	20.0	1
07070	Titanium		7440-32-6	2.9	J	1.3	10.0	1
07071	Vanadium		7440-62-2	30.1		1.6	5.0	1
07072	Zinc		7440-66-6	N.D.		5.4	20.0	1
Wet Chemistry		**EPA 1664A**		**ug/l**		**ug/l**	**ug/l**	
00612	SGT-HEM (TPH)		n.a.	N.D.		1,400	5,000	1

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
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W171451AA	05/25/2017 17:39	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W171451AA	05/25/2017 17:39	Linda C Pape	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995364
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 11:52 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14249	PAHs 8270C Water	SW-846 8270C	1	17137WAL026	05/18/2017 09:48	Joseph M Gambler	1
07807	BNA Water Extraction	SW-846 3510C	1	17137WAL026	05/17/2017 21:10	Christine Gleim	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17142B20A	05/23/2017 05:05	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17142B20A	05/23/2017 05:05	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	171370017A	05/18/2017 18:00	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	171370017A	05/17/2017 18:00	Ryan J Dowdy	1
01743	Aluminum	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07046	Barium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
08014	Boron	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07049	Cadmium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
01750	Calcium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07051	Chromium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07053	Copper	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
01754	Iron	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07055	Lead	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
01757	Magnesium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07058	Manganese	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07060	Molybdenum	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07061	Nickel	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
10143	Phosphorus	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
01765	Silicon	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07066	Silver	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
01767	Sodium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
12004	Sulfur	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07069	Tin	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07070	Titanium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07071	Vanadium	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
07072	Zinc	SW-846 6010B	1	171370184802	05/18/2017 13:10	Scott R Yanos	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	171370184802	05/18/2017 00:55	Denise L Trimby	1
00612	SGT-HEM (TPH)	EPA 1664A	1	17138807801A	05/18/2017 10:39	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995365
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 10:55 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	20	1
10335	t-Amyl methyl ether	994-05-8	N.D.	0.5	1	1
10335	Benzene	71-43-2	N.D.	0.5	1	1
10335	Bromobenzene	108-86-1	N.D.	1	5	1
10335	Bromochloromethane	74-97-5	N.D.	1	5	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
10335	Bromoform	75-25-2	N.D.	0.5	4	1
10335	Bromomethane	74-83-9	N.D.	0.5	1	1
10335	2-Butanone	78-93-3	N.D.	3	10	1
10335	t-Butyl alcohol	75-65-0	N.D.	5	20	1
10335	n-Butylbenzene	104-51-8	N.D.	1	5	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	5	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	5	1
10335	Carbon Disulfide	75-15-0	N.D.	1	5	1
10335	Carbon Tetrachloride	56-23-5	1	0.5	1	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1	1
10335	Chloroethane	75-00-3	N.D.	0.5	1	1
10335	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	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	1
10335	Chloromethane	74-87-3	N.D.	0.5	1	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	5	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	5	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1	1
10335	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	5	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
10335	Ethanol	64-17-5	N.D.	50	250	1
10335	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10335	Freon 113	76-13-1	N.D.	2	10	1
10335	Hexachlorobutadiene	87-68-3	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995365
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 10:55 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10335	2-Hexanone	591-78-6	N.D.	3	10	1
10335	di-Isopropyl ether	108-20-3	N.D.	0.5	1	1
10335	Isopropylbenzene	98-82-8	N.D.	1	5	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	5	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	1
10335	Methylene Chloride	75-09-2	N.D.	2	4	1
10335	Naphthalene	91-20-3	N.D.	1	5	1
10335	n-Propylbenzene	103-65-1	N.D.	1	5	1
10335	Styrene	100-42-5	N.D.	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
10335	Toluene	108-88-3	N.D.	0.5	1	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	1
10335	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	5	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	5	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	5	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1	1
10335	o-Xylene	95-47-6	N.D.	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l	ug/l	ug/l	
14249	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
14249	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
14249	Anthracene	120-12-7	N.D.	0.1	0.5	1
14249	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
14249	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
14249	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
14249	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
14249	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
14249	Chrysene	218-01-9	N.D.	0.1	0.5	1
14249	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
14249	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
14249	Fluorene	86-73-7	N.D.	0.1	0.5	1
14249	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
14249	Naphthalene	91-20-3	N.D.	0.1	0.5	1
14249	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
14249	Pyrene	129-00-0	N.D.	0.1	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995365
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 10:55 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO03

CAT No.	Analysis Name		CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
06609	TPH-DRO CA C10-C28		n.a.	62	J	50	100	1
Metals		**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	0.0033	J	0.0018	0.0050	1
		SW-846 6010B		**ug/l**		**ug/l**	**ug/l**	
01743	Aluminum		7429-90-5	N.D.		86.8	200	1
07046	Barium		7440-39-3	61.6		1.1	5.0	1
08014	Boron		7440-42-8	1,020		8.3	50.0	1
07049	Cadmium		7440-43-9	N.D.		0.49	5.0	1
01750	Calcium		7440-70-2	59,700		38.2	200	1
07051	Chromium		7440-47-3	N.D.		1.8	15.0	1
07053	Copper		7440-50-8	N.D.		4.1	10.0	1
01754	Iron		7439-89-6	N.D.		74.7	200	1
07055	Lead		7439-92-1	N.D.		6.2	15.0	1
01757	Magnesium		7439-95-4	24,800		19.0	100	1
07060	Molybdenum		7439-98-7	N.D.		1.7	10.0	1
07061	Nickel		7440-02-0	N.D.		2.8	10.0	1
10143	Phosphorus		7723-14-0	30.1	J	10.0	100	1
01765	Silicon		7440-21-3	15,200		19.2	50.0	1
07066	Silver		7440-22-4	N.D.		1.9	5.0	1
01767	Sodium		7440-23-5	74,400		173	1,000	1
12004	Sulfur		7704-34-9	14,000		83.3	500	1
07069	Tin		7440-31-5	N.D.		7.1	20.0	1
07070	Titanium		7440-32-6	3.1	J	1.3	10.0	1
07071	Vanadium		7440-62-2	26.6		1.6	5.0	1
07072	Zinc		7440-66-6	N.D.		5.4	20.0	1
Wet Chemistry		**EPA 1664A**		**ug/l**		**ug/l**	**ug/l**	
00612	SGT-HEM (TPH)		n.a.	N.D.		1,400	5,000	1

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
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	W171451AA	05/25/2017 18:02	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W171451AA	05/25/2017 18:02	Linda C Pape	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-170515 Grab Groundwater
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8995365
LL Group # 1801815
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 05/15/2017 10:55 by FT

Submitted: 05/16/2017 09:32
Reported: 05/26/2017 13:02

GHD
Suite 140
15575 SW Sequoia Parkway
Portland OR 97224

MBO03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14249	PAHs 8270C Water	SW-846 8270C	1	17137WAL026	05/18/2017 10:18	Joseph M Gambler	1
07807	BNA Water Extraction	SW-846 3510C	1	17137WAL026	05/17/2017 21:10	Christine Gleim	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	17142B20A	05/23/2017 05:33	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	17142B20A	05/23/2017 05:33	Jeremy C Giffin	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	171370017A	05/18/2017 18:22	Thomas C Wildermuth	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	171370017A	05/17/2017 18:00	Ryan J Dowdy	1
01743	Aluminum	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07046	Barium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
08014	Boron	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07049	Cadmium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
01750	Calcium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07051	Chromium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07053	Copper	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
01754	Iron	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07055	Lead	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
01757	Magnesium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07058	Manganese	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07060	Molybdenum	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07061	Nickel	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
10143	Phosphorus	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
01765	Silicon	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07066	Silver	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
01767	Sodium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
12004	Sulfur	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07069	Tin	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07070	Titanium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07071	Vanadium	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
07072	Zinc	SW-846 6010B	1	171370184802	05/18/2017 13:14	Scott R Yanos	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	171370184802	05/18/2017 00:55	Denise L Trimby	1
00612	SGT-HEM (TPH)	EPA 1664A	1	17138807801A	05/18/2017 10:39	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

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.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: W171451AA	Sample number(s): 8995363-8995365		
Acetone	N.D.	6	20
t-Amyl methyl ether	N.D.	0.5	1
Benzene	N.D.	0.5	1
Bromobenzene	N.D.	1	5
Bromochloromethane	N.D.	1	5
Bromodichloromethane	N.D.	0.5	1
Bromoform	N.D.	0.5	4
Bromomethane	N.D.	0.5	1
2-Butanone	N.D.	3	10
t-Butyl alcohol	N.D.	5	20
n-Butylbenzene	N.D.	1	5
sec-Butylbenzene	N.D.	1	5
tert-Butylbenzene	N.D.	1	5
Carbon Disulfide	N.D.	1	5
Carbon Tetrachloride	N.D.	0.5	1
Chlorobenzene	N.D.	0.5	1
Chloroethane	N.D.	0.5	1
2-Chloroethyl Vinyl Ether	N.D.	2	10
Chloroform	N.D.	0.5	1
Chloromethane	N.D.	0.5	1
2-Chlorotoluene	N.D.	1	5
4-Chlorotoluene	N.D.	1	5
1,2-Dibromo-3-chloropropane	N.D.	2	5
Dibromochloromethane	N.D.	0.5	1
1,2-Dibromoethane	N.D.	0.5	1
Dibromomethane	N.D.	0.5	1
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
Dichlorodifluoromethane	N.D.	0.5	1
1,1-Dichloroethane	N.D.	0.5	1
1,2-Dichloroethane	N.D.	0.5	1
1,1-Dichloroethene	N.D.	0.5	1
cis-1,2-Dichloroethene	N.D.	0.5	1
trans-1,2-Dichloroethene	N.D.	0.5	1
1,2-Dichloropropane	N.D.	0.5	1
1,3-Dichloropropane	N.D.	0.5	1
2,2-Dichloropropane	N.D.	0.5	1
1,1-Dichloropropene	N.D.	1	5
cis-1,3-Dichloropropene	N.D.	0.5	1

*- Outside of specification
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(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
trans-1,3-Dichloropropene	N.D.	0.5	1
Ethanol	N.D.	50	250
Ethyl t-butyl ether	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Freon 113	N.D.	2	10
Hexachlorobutadiene	N.D.	2	5
2-Hexanone	N.D.	3	10
di-Isopropyl ether	N.D.	0.5	1
Isopropylbenzene	N.D.	1	5
p-Isopropyltoluene	N.D.	1	5
Methyl Tertiary Butyl Ether	N.D.	0.5	1
4-Methyl-2-pentanone	N.D.	3	10
Methylene Chloride	N.D.	2	4
Naphthalene	N.D.	1	5
n-Propylbenzene	N.D.	1	5
Styrene	N.D.	1	5
1,1,1,2-Tetrachloroethane	N.D.	0.5	1
1,1,2,2-Tetrachloroethane	N.D.	0.5	1
Tetrachloroethene	N.D.	0.5	1
Toluene	N.D.	0.5	1
1,2,3-Trichlorobenzene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	0.5	1
1,1,2-Trichloroethane	N.D.	0.5	1
Trichloroethene	N.D.	0.5	1
Trichlorofluoromethane	N.D.	0.5	1
1,2,3-Trichloropropane	N.D.	1	5
1,2,4-Trimethylbenzene	N.D.	1	5
1,3,5-Trimethylbenzene	N.D.	1	5
Vinyl Chloride	N.D.	0.5	1
m+p-Xylene	N.D.	0.5	1
o-Xylene	N.D.	0.5	1
Batch number: Z171382AA	Sample number(s): 8995362		
Benzene	N.D.	0.5	1
Ethylbenzene	N.D.	0.5	1
Methyl Tertiary Butyl Ether	N.D.	0.5	1
Toluene	N.D.	0.5	1
Xylene (Total)	N.D.	0.5	1
Batch number: 17137WAL026	Sample number(s): 8995363-8995365		
Acenaphthene	N.D.	0.1	0.5
Acenaphthylene	N.D.	0.1	0.5
Anthracene	N.D.	0.1	0.5
Benzo(a)anthracene	N.D.	0.1	0.5
Benzo(a)pyrene	N.D.	0.1	0.5
Benzo(b)fluoranthene	N.D.	0.1	0.5
Benzo(g,h,i)perylene	N.D.	0.1	0.5
Benzo(k)fluoranthene	N.D.	0.1	0.5
Chrysene	N.D.	0.1	0.5

*- Outside of specification
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(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

Method Blank (continued)

Analysis Name	Result		MDL**	LOQ
	ug/l		ug/l	ug/l
Dibenz(a,h)anthracene	N.D.		0.1	0.5
Fluoranthene	N.D.		0.1	0.5
Fluorene	N.D.		0.1	0.5
Indeno(1,2,3-cd)pyrene	N.D.		0.1	0.5
Naphthalene	N.D.		0.1	0.5
Phenanthrene	N.D.		0.1	0.5
Pyrene	N.D.		0.1	0.5
Batch number: 17142B20A	Sample number(s): 8995362-8995365			
TPH-GRO N. CA water C6-C12	N.D.		50	100
Batch number: 171370017A	Sample number(s): 8995363-8995365			
TPH-DRO CA C10-C28	N.D.		32	100
	mg/l		mg/l	mg/l
Batch number: 171370184802	Sample number(s): 8995363-8995365			
Manganese	N.D.		0.0018	0.0050
	ug/l		ug/l	ug/l
Aluminum	N.D.		86.8	200
Barium	N.D.		1.1	5.0
Boron	N.D.		8.3	50.0
Cadmium	N.D.		0.49	5.0
Calcium	73.7	J	38.2	200
Chromium	N.D.		1.8	15.0
Copper	N.D.		4.1	10.0
Iron	N.D.		74.7	200
Lead	N.D.		6.2	15.0
Magnesium	64.4	J	19.0	100
Molybdenum	N.D.		1.7	10.0
Nickel	N.D.		2.8	10.0
Phosphorus	N.D.		10.0	100
Silicon	N.D.		19.2	50.0
Silver	N.D.		1.9	5.0
Sodium	N.D.		173	1,000
Sulfur	N.D.		83.3	500
Tin	N.D.		7.1	20.0
Titanium	N.D.		1.3	10.0
Vanadium	N.D.		1.6	5.0
Zinc	N.D.		5.4	20.0
Batch number: 17138807801A	Sample number(s): 8995363-8995365			
SGT-HEM (TPH)	N.D.		1,400	5,000

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- Outside of specification
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Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W171451AA	Sample number(s): 8995363-8995365								
Acetone	150	137.71	150	135.77	92	91	50-168	1	30
t-Amyl methyl ether	20	18.85	20	16.65	94	83	67-120	12	30
Benzene	20	20.46	20	18.75	102	94	78-120	9	30
Bromobenzene	20	20.98	20	19.01	105	95	80-120	10	30
Bromochloromethane	20	22.86	20	20.75	114	104	80-125	10	30
Bromodichloromethane	20	20.3	20	18.75	102	94	80-120	8	30
Bromoform	20	21.5	20	19.06	108	95	64-120	12	30
Bromomethane	20	24.3	20	23.28	121	116	49-121	4	30
2-Butanone	150	151.96	150	131.31	101	88	53-140	15	30
t-Butyl alcohol	200	173.57	200	166.89	87	83	68-122	4	30
n-Butylbenzene	20	18.5	20	16.57	92	83	76-120	11	30
sec-Butylbenzene	20	19	20	17.33	95	87	77-120	9	30
tert-Butylbenzene	20	19.63	20	17.13	98	86	78-120	14	30
Carbon Disulfide	20	21.62	20	18.87	108	94	63-122	14	30
Carbon Tetrachloride	20	21.81	20	19.74	109	99	76-123	10	30
Chlorobenzene	20	20.55	20	18.67	103	93	80-120	10	30
Chloroethane	20	21.32	20	20.51	107	103	51-121	4	30
2-Chloroethyl Vinyl Ether	20	17.99	20	16.45	90	82	55-121	9	30
Chloroform	20	19.99	20	18.47	100	92	80-120	8	30
Chloromethane	20	19.53	20	18.26	98	91	57-120	7	30
2-Chlorotoluene	20	19.95	20	17.76	100	89	80-120	12	30
4-Chlorotoluene	20	20.06	20	18.38	100	92	80-120	9	30
1,2-Dibromo-3-chloropropane	20	20.97	20	18.48	105	92	59-120	13	30
Dibromochloromethane	20	19.68	20	18.32	98	92	78-120	7	30
1,2-Dibromoethane	20	21.53	20	19.26	108	96	75-120	11	30
Dibromomethane	20	21.25	20	19.54	106	98	80-120	8	30
1,2-Dichlorobenzene	20	20.53	20	18.64	103	93	80-120	10	30
1,3-Dichlorobenzene	20	19.78	20	18	99	90	80-120	9	30
1,4-Dichlorobenzene	20	20.33	20	18.65	102	93	80-120	9	30
Dichlorodifluoromethane	20	18.78	20	16.17	94	81	54-122	15	30
1,1-Dichloroethane	20	20.39	20	18.98	102	95	80-120	7	30
1,2-Dichloroethane	20	20.53	20	18.34	103	92	66-128	11	30
1,1-Dichloroethene	20	20.54	20	18.43	103	92	76-124	11	30
cis-1,2-Dichloroethene	20	21.51	20	20.01	108	100	80-120	7	30
trans-1,2-Dichloroethene	20	21.77	20	19.84	109	99	80-120	9	30
1,2-Dichloropropane	20	20.51	20	19.02	103	95	80-120	8	30
1,3-Dichloropropane	20	19.78	20	17.64	99	88	80-120	11	30
2,2-Dichloropropane	20	22.33	20	20.4	112	102	66-128	9	30
1,1-Dichloropropene	20	20.04	20	17.87	100	89	78-120	11	30
cis-1,3-Dichloropropene	20	19.96	20	18.28	100	91	75-120	9	30
trans-1,3-Dichloropropene	20	19.56	20	17.03	98	85	76-120	14	30
Ethanol	500	429.97	500	496.63	86	99	35-165	14	30
Ethyl t-butyl ether	20	18.29	20	16.58	91	83	69-120	10	30
Ethylbenzene	20	19.47	20	17.49	97	87	78-120	11	30
Freon 113	20	22.52	20	19.32	113	97	68-129	15	30
Hexachlorobutadiene	20	22.05	20	19.38	110	97	60-120	13	30
2-Hexanone	100	107.77	100	84.25	108	84	49-137	24	30

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Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
di-Isopropyl ether	20	19.81	20	17.99	99	90	70-124	10	30
Isopropylbenzene	20	18.94	20	17.01	95	85	80-120	11	30
p-Isopropyltoluene	20	19.06	20	17.06	95	85	76-120	11	30
Methyl Tertiary Butyl Ether	20	19.55	20	17.26	98	86	75-120	12	30
4-Methyl-2-pentanone	100	103.68	100	91.95	104	92	56-131	12	30
Methylene Chloride	20	20.73	20	19.22	104	96	80-120	8	30
Naphthalene	20	19.02	20	16.75	95	84	59-120	13	30
n-Propylbenzene	20	19.01	20	17.12	95	86	79-121	10	30
Styrene	20	19.78	20	17.64	99	88	80-120	11	30
1,1,1,2-Tetrachloroethane	20	21.31	20	19.45	107	97	80-120	9	30
1,1,2,2-Tetrachloroethane	20	21.27	20	19.13	106	96	72-120	11	30
Tetrachloroethene	20	21.85	20	19.75	109	99	80-129	10	30
Toluene	20	20.41	20	18.28	102	91	80-120	11	30
1,2,3-Trichlorobenzene	20	21.32	20	18.46	107	92	51-120	14	30
1,2,4-Trichlorobenzene	20	19.63	20	17.28	98	86	58-120	13	30
1,1,1-Trichloroethane	20	23.31	20	21.9	117	110	67-120	6	30
1,1,2-Trichloroethane	20	21.47	20	19.53	107	98	80-120	9	30
Trichloroethene	20	20.34	20	18.93	102	95	80-120	7	30
Trichlorofluoromethane	20	22.48	20	20.66	112	103	57-134	8	30
1,2,3-Trichloropropane	20	21.65	20	19.51	108	98	80-120	10	30
1,2,4-Trimethylbenzene	20	18.78	20	16.93	94	85	75-120	10	30
1,3,5-Trimethylbenzene	20	18.74	20	17.01	94	85	75-120	10	30
Vinyl Chloride	20	20.36	20	18.4	102	92	63-121	10	30
m+p-Xylene	40	40.91	40	36.84	102	92	80-120	10	30
o-Xylene	20	19.37	20	17.39	97	87	80-120	11	30
Batch number: Z171382AA	Sample number(s): 8995362								
Benzene	20	18.78			94		78-120		
Ethylbenzene	20	18.67			93		78-120		
Methyl Tertiary Butyl Ether	20	19.28			96		75-120		
Toluene	20	19.59			98		80-120		
Xylene (Total)	60	58.24			97		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17137WAL026	Sample number(s): 8995363-8995365								
Acenaphthene	50	36.64	50	40.61	73	81	64-121	10	30
Acenaphthylene	50	37.66	50	41.44	75	83	63-120	10	30
Anthracene	50	39.46	50	42.72	79	85	72-120	8	30
Benzo(a)anthracene	50	42.33	50	43.44	85	87	74-124	3	30
Benzo(a)pyrene	50	37.76	50	38.6	76	77	71-119	2	30
Benzo(b)fluoranthene	50	39.12	50	40.63	78	81	72-124	4	30
Benzo(g,h,i)perylene	50	36.58	50	37.03	73	74	61-124	1	30
Benzo(k)fluoranthene	50	41	50	42.96	82	86	73-121	5	30
Chrysene	50	42.88	50	43.82	86	88	75-129	2	30
Dibenz(a,h)anthracene	50	37.45	50	37.44	75	75	65-126	0	30
Fluoranthene	50	42.76	50	45.77	86	92	74-126	7	30
Fluorene	50	38.74	50	42.01	77	84	67-120	8	30
Indeno(1,2,3-cd)pyrene	50	36	50	36.88	72	74	63-122	2	30

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Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Naphthalene	50	32.86	50	36	66	72	54-109	9	30
Phenanthrene	50	39.04	50	42.44	78	85	72-117	8	30
Pyrene	50	39.64	50	41.45	79	83	69-119	4	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17142B20A	Sample number(s): 8995362-8995365								
TPH-GRO N. CA water C6-C12	1100	1048.74	1100	1085.67	95	99	80-120	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 171370017A	Sample number(s): 8995363-8995365								
TPH-DRO CA C10-C28	1600	1410.39	1600	1410.79	88	88	53-115	0	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 171370184802	Sample number(s): 8995363-8995365								
Manganese	0.500	0.513			103		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 171370184802	Sample number(s): 8995363-8995365								
Aluminum	2000	2168.07			108		80-120		
Barium	2000	2020.12			101		80-120		
Boron	2000	1937.14			97		80-120		
Cadmium	50	51.69			103		80-120		
Calcium	4000	4086.98			102		80-120		
Chromium	200	197.38			99		80-120		
Copper	250	257.85			103		80-120		
Iron	1000	1036.08			104		80-120		
Lead	150	154.63			103		80-120		
Magnesium	2000	2079.6			104		80-120		
Molybdenum	2000	2025.93			101		80-120		
Nickel	500	526.52			105		80-120		
Phosphorus	1000	1013.65			101		80-120		
Silicon	1000	1093.51			109		80-120		
Silver	50	50.18			100		80-120		
Sodium	10000	10297.08			103		80-120		
Sulfur	1000	1065.16			107		80-120		
Tin	4000	3935.52			98		80-120		
Titanium	1000	980.06			98		80-120		
Vanadium	500	492.17			98		80-120		
Zinc	500	507.22			101		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 17138807801A	Sample number(s): 8995363-8995365								
SGT-HEM (TPH)	20000	14900	20000	14200	75	71	64-132	5	23

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: Z171382AA	Sample number(s): 8995362 UNSPK: P991434									
Benzene	N.D.	20	19.86	20	20.36	99	102	78-120	2	30
Ethylbenzene	N.D.	20	19.71	20	19.97	99	100	78-120	1	30
Methyl Tertiary Butyl Ether	N.D.	20	19.05	20	19.66	95	98	75-120	3	30
Toluene	N.D.	20	20.75	20	21.02	104	105	80-120	1	30
Xylene (Total)	N.D.	60	61.44	60	62.25	102	104	80-120	1	30
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 171370184802	Sample number(s): 8995363-8995365 UNSPK: 8995363									
Manganese	0.136	0.500	0.656	0.500	0.634	104	100	75-125	3	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 171370184802	Sample number(s): 8995363-8995365 UNSPK: 8995363									
Aluminum	N.D.	2000	2178.24	2000	2180.73	109	109	75-125	0	20
Barium	62.31	2000	2128.89	2000	2054.35	103	100	75-125	4	20
Boron	1065.62	2000	3123.58	2000	3046.96	103	99	75-125	2	20
Cadmium	N.D.	50	51.28	50	50.57	103	101	75-125	1	20
Calcium	55299.93	4000	60001.43	4000	59590.22	118 (2)	107 (2)	75-125	1	20
Chromium	N.D.	200	199.37	200	193.22	100	97	75-125	3	20
Copper	N.D.	250	265.46	250	257.55	106	103	75-125	3	20
Iron	N.D.	1000	1059.78	1000	1044.93	106	104	75-125	1	20
Lead	N.D.	150	149.24	150	149.01	99	99	75-125	0	20
Magnesium	23603.67	2000	25853.22	2000	25727.18	112 (2)	106 (2)	75-125	0	20
Molybdenum	N.D.	2000	2034.39	2000	2042.92	102	102	75-125	0	20
Nickel	2.83	500	519.98	500	511.23	103	102	75-125	2	20
Phosphorus	27.81	1000	1079.87	1000	1056.7	105	103	75-125	2	20
Silicon	16639.79	1000	17869.8	1000	17752.71	123 (2)	111 (2)	75-125	1	20
Silver	N.D.	50	50.33	50	49.74	101	99	75-125	1	20
Sodium	105153.52	10000	116533.99	10000	115686.04	114 (2)	105 (2)	75-125	1	20
Sulfur	10847.6	1000	11998.52	1000	11931.26	115 (2)	108 (2)	75-125	1	20
Tin	N.D.	4000	3932.74	4000	3948.26	98	99	75-125	0	20
Titanium	2.99	1000	993.72	1000	988.13	99	99	75-125	1	20
Vanadium	23.81	500	530.76	500	513.71	101	98	75-125	3	20
Zinc	N.D.	500	512.9	500	506.49	103	101	75-125	1	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 17138807801A	Sample number(s): 8995363-8995365 UNSPK: P992438									
SGT-HEM (TPH)	N.D.	21100	13894.8			66		64-132		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 171370184802	Sample number(s): 8995363-8995365 BKG: 8995363			
Manganese	0.136	0.141	4	20
	ug/l	ug/l		
Batch number: 171370184802	Sample number(s): 8995363-8995365 BKG: 8995363			
Aluminum	N.D.	N.D.	0 (1)	20
Barium	62.31	65.44	5	20
Boron	1065.62	1107.11	4	20
Cadmium	N.D.	N.D.	0 (1)	20
Calcium	55299.93	55484.9	0	20
Chromium	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Magnesium	23603.67	23672.03	0	20
Molybdenum	N.D.	N.D.	0 (1)	20
Nickel	2.83	3.30	15 (1)	20
Phosphorus	27.81	28.96	4 (1)	20
Silicon	16639.79	16670.79	0	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	105153.52	105651.85	0	20
Sulfur	10847.6	10948.74	1	20
Tin	N.D.	N.D.	0 (1)	20
Titanium	2.99	2.97	1 (1)	20
Vanadium	23.81	24.16	1 (1)	20
Zinc	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 w/ Sep. Xylenes
Batch number: W171451AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8995363	103	101	94	84
8995364	105	105	94	85
8995365	105	105	93	85
Blank	103	104	94	85
LCS	101	101	98	94
LCSD	102	100	97	94
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GHD
Reported: 05/26/2017 13:02

Group Number: 1801815

Surrogate Quality Control (continued)

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

Analysis Name: BTEX/MTBE
Batch number: Z171382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8995362	99	100	99	95
Blank	99	101	99	94
LCS	96	100	100	98
MS	97	99	99	98
MSD	96	100	99	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs 8270C Water
Batch number: 17137WAL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8995363	67	68	53
8995364	83	77	52
8995365	78	72	56
Blank	64	65	65
LCS	75	70	65
LCSD	82	76	65
Limits:	29-119	41-112	38-125

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 17142B20A

	Trifluorotoluene-F
8995362	90
8995363	97
8995364	85
8995365	87
Blank	91
LCS	94
LCSD	98
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 171370017A

	Orthoterphenyl
8995363	89
8995364	92
8995365	103
Blank	83
LCS	105
LCSD	106
Limits:	50-124

*- Outside of specification
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(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GHD Group Number: 1801815
Reported: 05/26/2017 13:02

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13534 | For Eurofins Lancaster Laboratories Environmental use only: Group # 1801815 Sample # 8995362-65

Instructions on reverse side correspond with circled numbers.

051517-04 soil

1 of 1

SCR #: _____

Client Information

Facility # SS#373378-OML G-R#17155905 Global ID#T10000003434 | WBS

Site Address: 7600 MACARTHUR BLVD., OAKLAND, CA

Chevron PM: GHDMD | Lead Consultant: Davis

Consultant/Office: Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr.: Deanna L. Harding, deanna@grinc.com

Consultant Phone #: (925) 551-7444 x180

Sampler: FRANK TERMINONI

Matrix

Soil ☐ | Sediment ☐ | Water: Ground ☒ Potable ☐ NPDES ☐ | Surface ☐ | Oil ☐ | Air ☐

Analyses Requested

Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☒	TPH-GRO ☐ 8015 ☒ 8260 ☐	TPH-DRO 8015 without Silica Gel Cleanup ☒	TPH-DRO 8015 with Silica Gel Cleanup ☐	8260 Full ☒ LIST VOCs	Oxygenates	Total Lead	Dissolved ☒ Method WEAR METALS (6010)	OIL & GREASE SGT-HEM (1664)	PAHs (8270)	NAPHTHALENE (8270)
QA		17.5.15					W		2	X	X									
MW-1		↓	1253	X			↓		15		X	X		X			X	X	X	X
MW-2			1152	X					15		X	X		X			X	X	X	X
MW-3			1055	X					15		X	X		X			X	X	X	X

Results in Dry Weight ☐
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 ☐

Remarks

WEAR METALS TO REPORT ARE: Al, Ba, B, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mo, Mn, Ni, P, Si, Ag, Na, S, Sn, Ti, V and Zn

Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Data Package (circle if required) EDF/EDD

Type I - Full | Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default) | Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	17.5.15			5/15/17	1440
	5/15/17	1620	FE		
Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____				5/16/17	0932

Temperature Upon Receipt 1.0-2.0 °C

Custody Seals Intact? Yes ☐ No ☐

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 183781

Group Number(s): 1801815

Client: CA OFFICE

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	05/16/2017 9:32
Number of Packages:	2	Number of Projects:	4
State/Province of Origin:	CA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Evelyn Shank (12390) at 13:02 on 05/16/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	2.0	DT	Wet	Y	Bagged	N
2	DT121	1.0	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

eurofins | Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

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

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

< less than

> 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.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

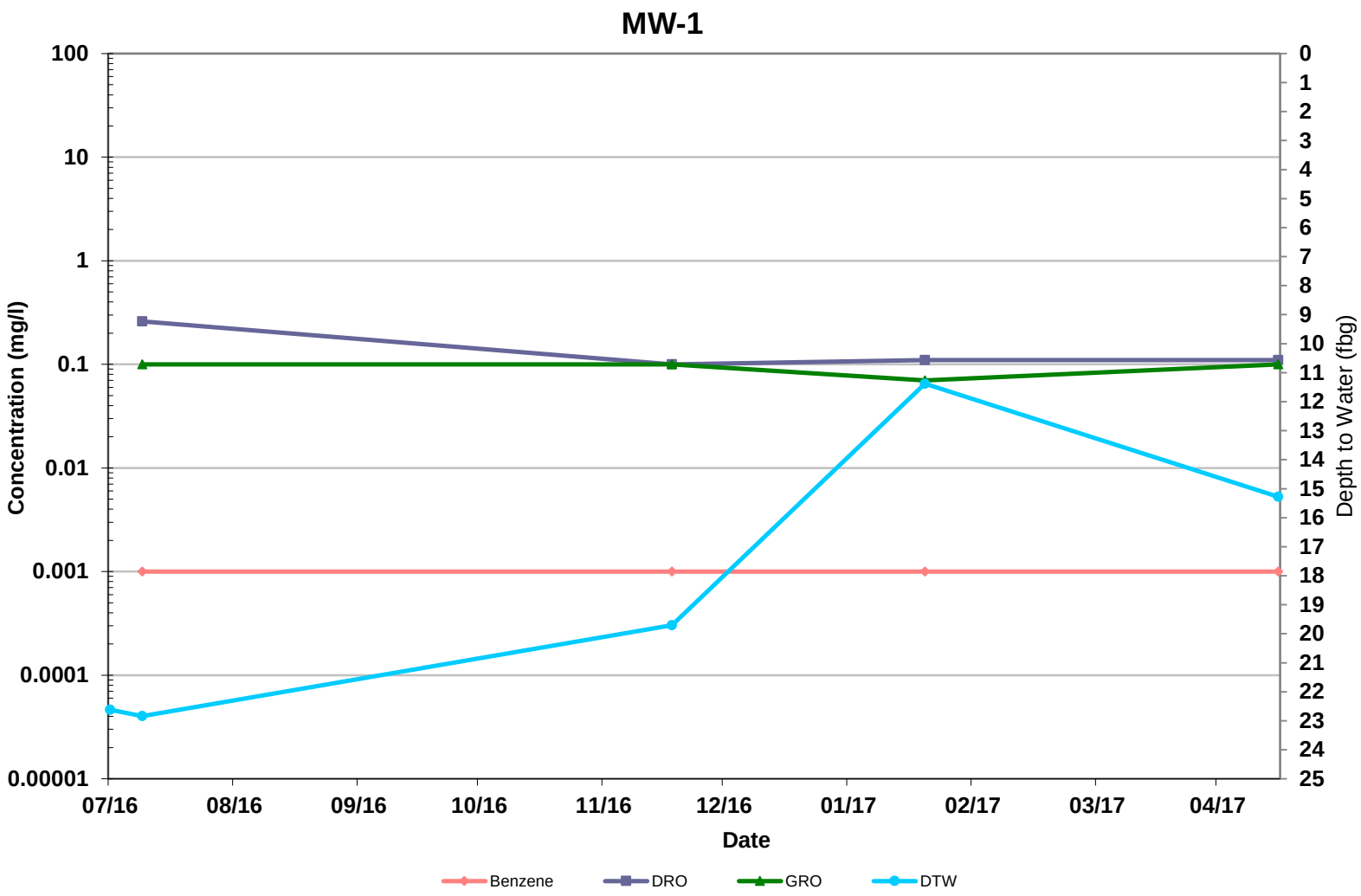
Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have 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.

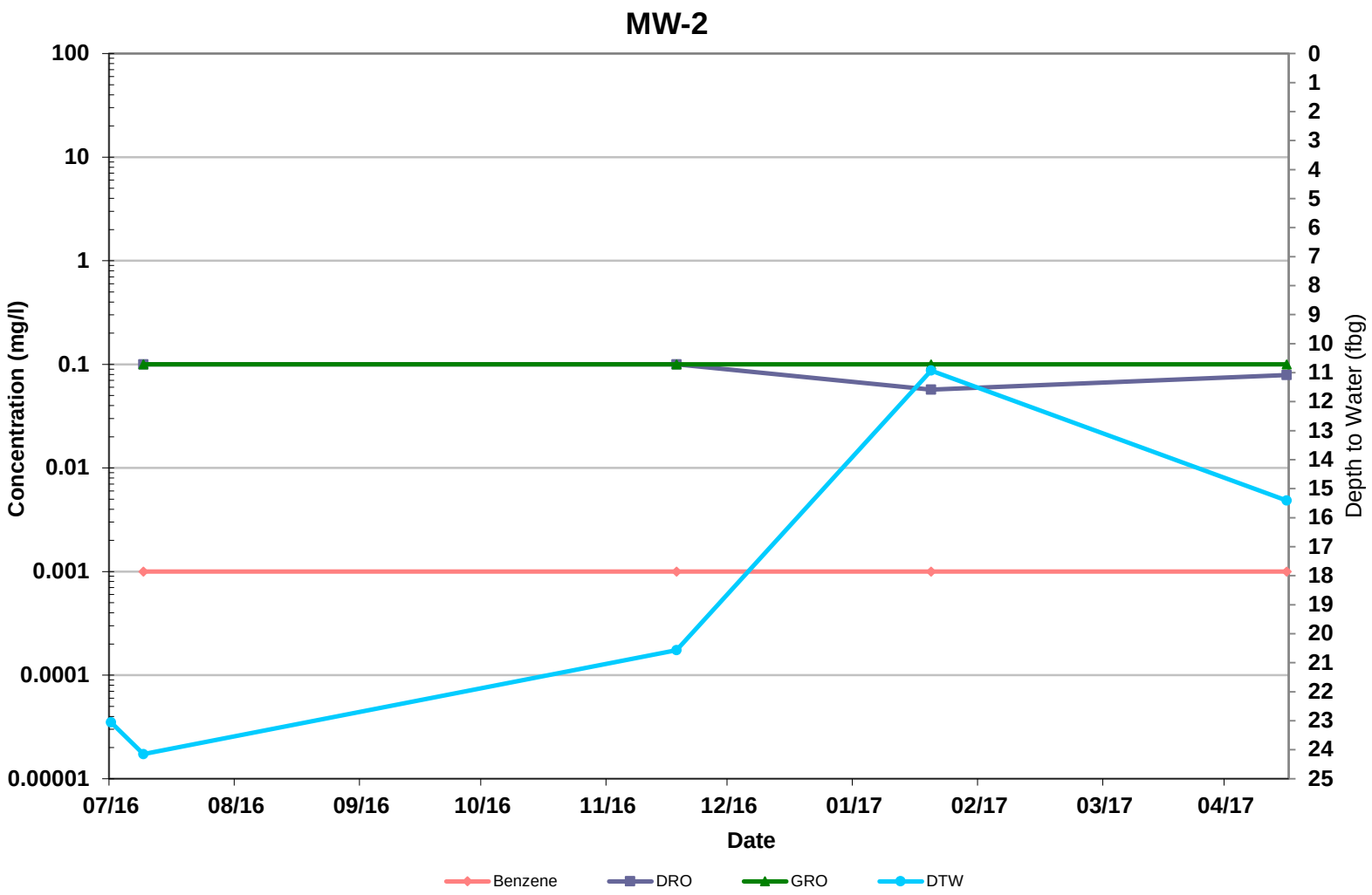
Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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.

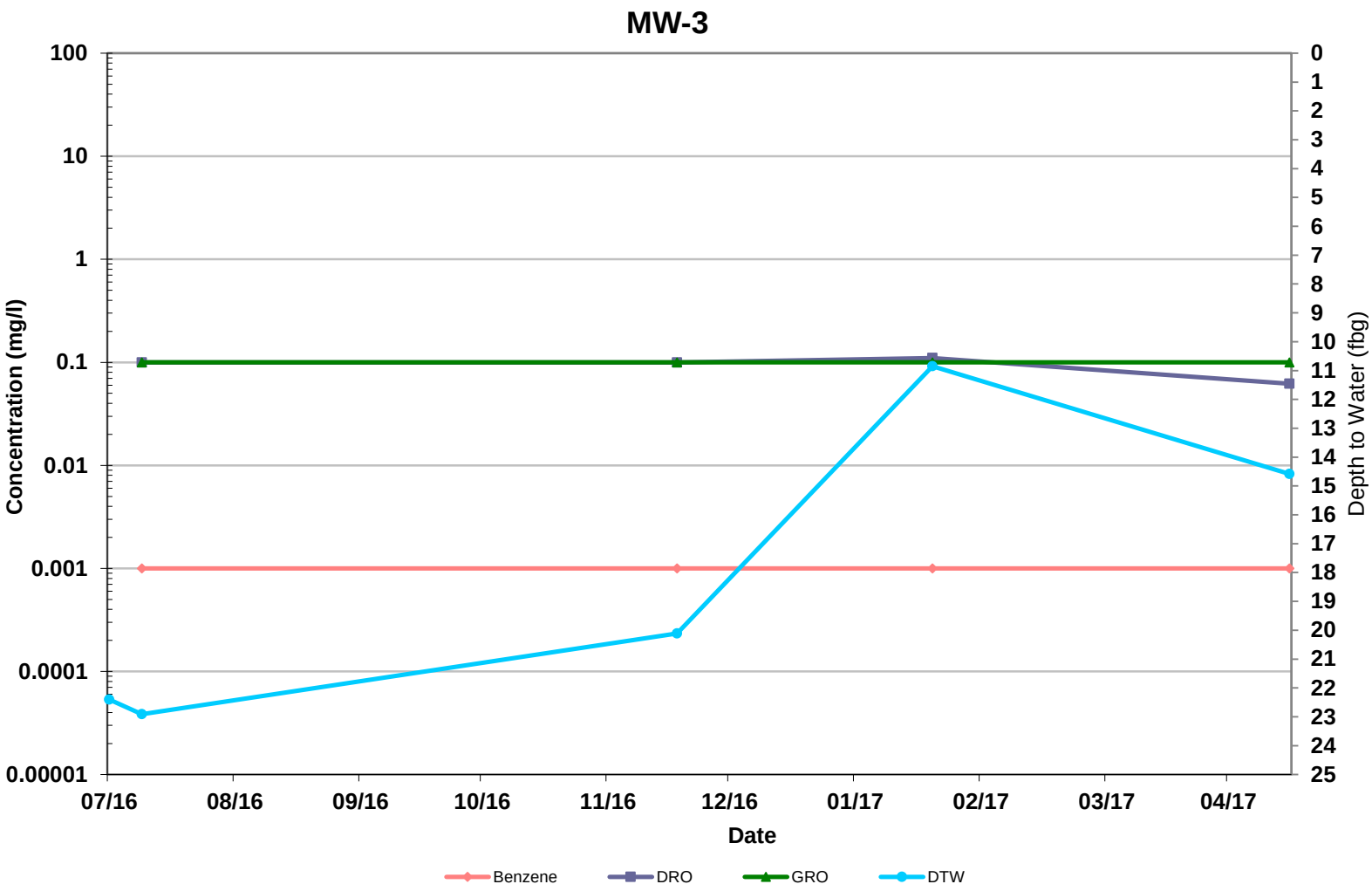
Attachment D
Groundwater Elevation and Concentration Graphs



Former Tidewater Service Station
Chevron Site 373378
7600 MacArthur Blvd
Oakland, California



Former Tidewater Service Station
Chevron Site 373378
7600 MacArthur Blvd
Oakland, California



Former Tidewater Service Station
Chevron Site 373378
7600 MacArthur Blvd
Oakland, California

Attachment E
Purge Water Disposal Documentation

Tidewater Purge Log Worksheet

04-07-2017 Shipment

Billed 5/19/17

Non-Hazardous Water Transport Form

Profile No.: 500-1963
Date of Shipment Pick-up: 4/7/2017

Tracking #: *1963-040717*
PO/SO #: W170816216 / 1701619946
BOL #: 0039872

Texaco Downstream Properties Inc.
TIDEWATER SITE INFORMATION

Manifest Doc No.	SAMPLE DATE (Shipment Date)	SITE NUMBER (Generator)	CITY	SITE ADDRESS	VOLUME
A	12/15/2016	373378	OAKLAND	7600 MACARTHUR BLVD.	25
B	1/4/2017	211717	SACRAMENTO	66 BROADWAY STREET	150
C	1/6/2017	307996	AUBURN	203 PLEASANT AVENUE	139
D	1/9/2017	307515	RED BLUFF	545 SOUTH MAIN STREET	125
E	2/16/2017	373378	OAKLAND	7600 MACARTHUR BLVD.	35
F	3/6/2017	372359	UKIAH	195 BRUSH STREET	26

Note: The TW steel tank holds up to 500 gallons; the lock combo: 3910.

G-R Total Qty: **500**

Clean Harbors Qty: ***500***

BOL DD39872
TRACKING # 1963 – D4D7 2017

Seaport Environmental

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

Texaco Downstream Prop.
6805 Sierra Ct.
Dublin Ca

CUSTOMER INFORMATION

Clean Harbors Environmental
781-792-5000
PO# W1708162 16
So# 170161 9946

DESCRIPTION OF WATER: Purging of Groundwater Monitoring Wells
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10)AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Desirée Waltm
Generator/Authorised Agent

Sign
4/7/17
date

SITE INFORMATION

6805 Sierra Ct.
Dublin
Ca

GROSS	
TARE	
NET	
TOTAL GALLONS	~~1000~~ 500

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

Clean Harbors

Truck ID: BT4

Driver: IGNACIO RIOS
Print full name & sign
date

TIME OUT	
TIME IN	
TIME SPENT	

DISPOSAL FACILITY INFORMATION **EPA ID: CAR 000239673**

Seaport Environmental
679 Seaport Boulevard
Redwood City, Ca 94063
Phone: (650) 364 1024

Approval Number
500 - 1963

Solids %Wt **pH**

Solids Surcharge ¢/USG

Received by:
Print full name & sign
date

Site Address: 6805 Sierra Court Suite G
Dublin,CA 94568

SC PPW 1/4/2017

WORK ORDER NO. DI 1701619946

DOCUMENT NO. 0039872 **STRAIGHT BILL OF LADING**

TRANSPORTER 1 Clean Harbors Environmental Service, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY	SHIPPER
Seaport Environmental LLC	Texaco Downstream Properties
FACILITY EPA ID # CAL000422492	SHIPPER EPA ID # NONEREQUIRED
ADDRESS 679 Seaport Boulevard	ADDRESS 6805 Sierra Court, Suite G
CITY Redwood City STATE CA ZIP 94063	CITY Dublin STATE CA ZIP 94568

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1	TT		A. NON HAZARDOUS, NON D.O.T. REGULATED, (PURGE WATER)	750 gal	G
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE # (800) 424-9300 GENERATOR: Texaco Downstream Properties
A300-1340 SEAPORT PROFILE 500-1963

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Desiree Walton		4/7/17
TRANSPORTER 1	Xavier Ruiz		4-7-17
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

4

CHL107

Shipment List

Manifest Tracking/Doc No. | Starts With | %1963-040717 | Search | Advanced

Displaying 1 - 6 of 6 records.

Shipment No.	Manifest Tracking/Doc No.	Manifest State Number	Shipment Date	Status	Generator	Disposal Facility
373378-0000005	1963-040717A	1963-040717A	12/15/2016	Shipped	Tidewater 373378	Seaport Refining and Environmental, LLC (Redwood City)
211717-0000056	1963-040717B	1963-040717B	1/4/2017	Shipped	Texaco Downstream Properties Inc. 211717	Seaport Refining and Environmental, LLC (Redwood City)
307996-0000058	1963-040717C	1963-040717C	1/6/2017	Shipped	Texaco Downstream Properties Inc. 307996	Seaport Refining and Environmental, LLC (Redwood City)
307515-0000074	1963-040717D	1963-040717D	1/9/2017	Shipped	Texaco Downstream Properties Inc. 307515	Seaport Refining and Environmental, LLC (Redwood City)
373378-0000007	1963-040717E	1963-040717E	2/16/2017	Shipped	Tidewater 373378	Seaport Refining and Environmental, LLC (Redwood City)
372359-0000024	1963-040717F	1963-040717F	3/6/2017	Shipped	Former Tidewater 372359	Seaport Refining and Environmental, LLC (Redwood City)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1		1963-040717E

GENERATOR

5. Generator's Name and Mailing Address
Tidewater 373378
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
Generator's Phone 877 386-6044

Generator's Site Address (if different than mailing address)
7600 MacArthur Blvd
Oakland, CA 94605-2944

6. Transporter 1 Company Name
Gettler-Ryan Inc
U.S. EPA ID Number

7. Transporter 2 Company Name
Clean Harbors Environmental Services Inc., MA
U.S. EPA ID Number M A D 0 3 9 3 2 2 2 5 0

8. Designated Facility Name and Site Address
Seaport Refining and Environmental, LLC (Redwood City)
679 Seaport Blvd.
Redwood City, CA 94063
Facility's Phone
U.S. EPA ID Number C A L 0 0 0 0 3 2 0 6 8

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Haz, Non-DOT regulated liquid (purge water)	1	T T	35	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. Wear Level "D" PPE, Wear Splash Protect

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature(for exports only): Date Leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month Day Year

Transporter 2 Printed/Typed Name | Signature | Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 17a.

Printed/Typed Name | Signature | Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1		1963-040717A

5. Generator's Name and Mailing Address
Tidewater 373378
PO Box 6004 - Chevron EMC Waste Desk
San Ramon, CA 94583
Generator's Phone: 877 386-6044

Generator's Site Address (if different than mailing address)
7600 MacArthur Blvd
Oakland, CA 94605-2944

6. Transporter 1 Company Name
Gettler-Ryan Inc
U.S. EPA ID Number:

7. Transporter 2 Company Name
Clean Harbors Environmental Services Inc., MI
U.S. EPA ID Number: M A D 0 3 9 3 2 2 2 5 0

8. Designated Facility Name and Site Address
Seaport Refining and Environmental, LLC (Redwood City)
679 Seaport Blvd.
Redwood City, CA 94063
Facility's Phone:
U.S. EPA ID Number: C A L 0 0 0 0 3 2 0 6 8

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Haz, Non-DOT regulated liquid (purge water)	1	T T	25	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. Wear Level "D" PPE, Wear Splash Protec

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature(for exports only): Date Leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month Day Year

Transporter 2 Printed/Typed Name | Signature | Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in Item 17a.

Printed/Typed Name | Signature | Month Day Year