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By Alameda County Environmental Health 10:00 am, Jan 23, 2017

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Project Manager
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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 Fourth Quarter 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 whose assistance and advice I have relied.

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

Sincerely,

Brittany frost

Brittany Frost
Project Manager

Attachment: Fourth Quarter Groundwater Monitoring and Sampling Report



January 20, 2017

Reference No. 062164

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

**Re: Fourth Quarter 2016 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 *Fourth Quarter 2016 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 (ACEH) Technical Report Request Letter dated July 19, 2016 (Attachment A). 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 and is being used 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 ACEH, Phillips Petroleum Company owned the property from 1966 through 1973. Since then, the site has had several owners, but has not undergone any major redevelopment. Former site features included at least one 1,000-gallon underground storage tank (UST), one 300-gallon UST, a dispenser island, and a station building with two hydraulic lifts. Approximate locations of the former service station building and USTs are shown on Figure 2. The site is bordered by private residences to the northeast and southeast. Commercial businesses are located southwest beyond MacArthur Boulevard and a vacant lot is located northwest across 76th Avenue.

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 Fourth Quarter 2016 Monitoring Event

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

During the fourth quarter 2016 event, depth to groundwater in site wells ranged from approximately 20 to 21 feet below the top of the well casings. The groundwater flow direction was west-northwest at a gradient of 0.01 (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	<100	<100	<1	<1	<1	<1	<1
MW-2	<100	<100	<1	<1	<1	<1	<1
MW-3	<100	<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 initial 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. Continued quarterly monitoring will determine whether a trend is present and if a hydrocarbon plume is present in groundwater.

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 third quarter sampling event are provided in Attachment E. Documentation for fourth quarter disposal activities will be provided in the first quarter 2017 groundwater monitoring report.

4. Anticipated Future Activities

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

ACEH has requested quarterly monitoring for four continuous quarters to determine groundwater conditions at the site. The next sampling event will occur during the first quarter 2017 and includes sampling of wells MW-1 through MW-3.



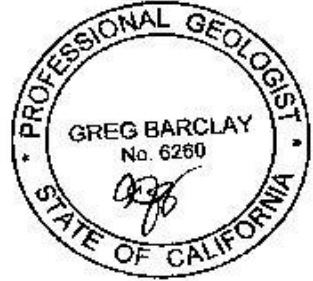
We appreciate the opportunity to work with you on this project. Should you have any questions on the above, please do not hesitate to contact Matthew Davis at (253) 302-8281.

Sincerely,

GHD

Matthew Davis

Greg Barclay PG 6260

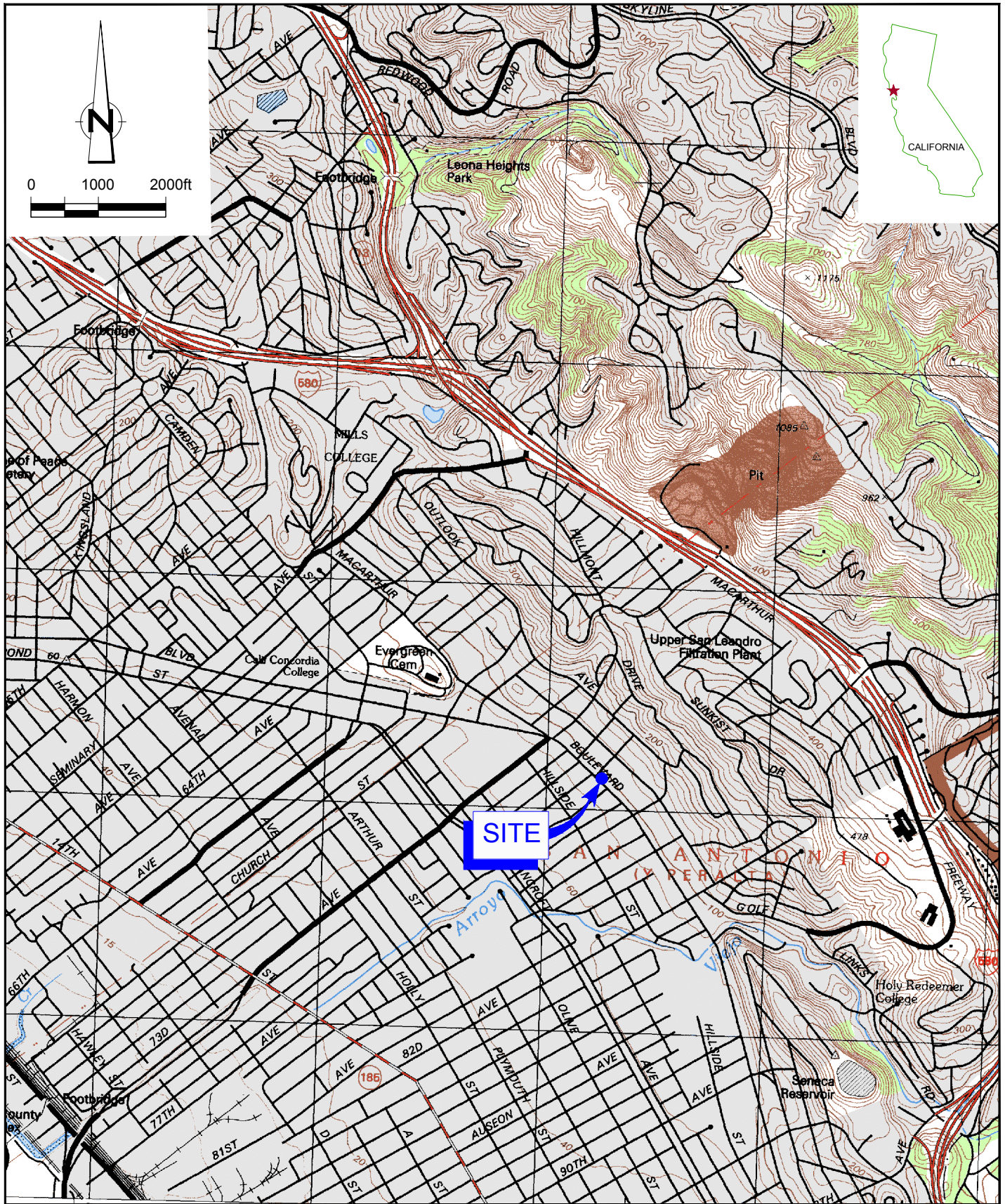


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|--------------|--|
| Figure 1 | Vicinity Map |
| Figure 2 | Groundwater Elevation Contour and Hydrocarbon Map |
| Table 1 | Cumulative Groundwater Elevation and Analytical Data |
| Table 2 | Historical PAH Data |
| Table 3 | Historical Metals Data |
| 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.

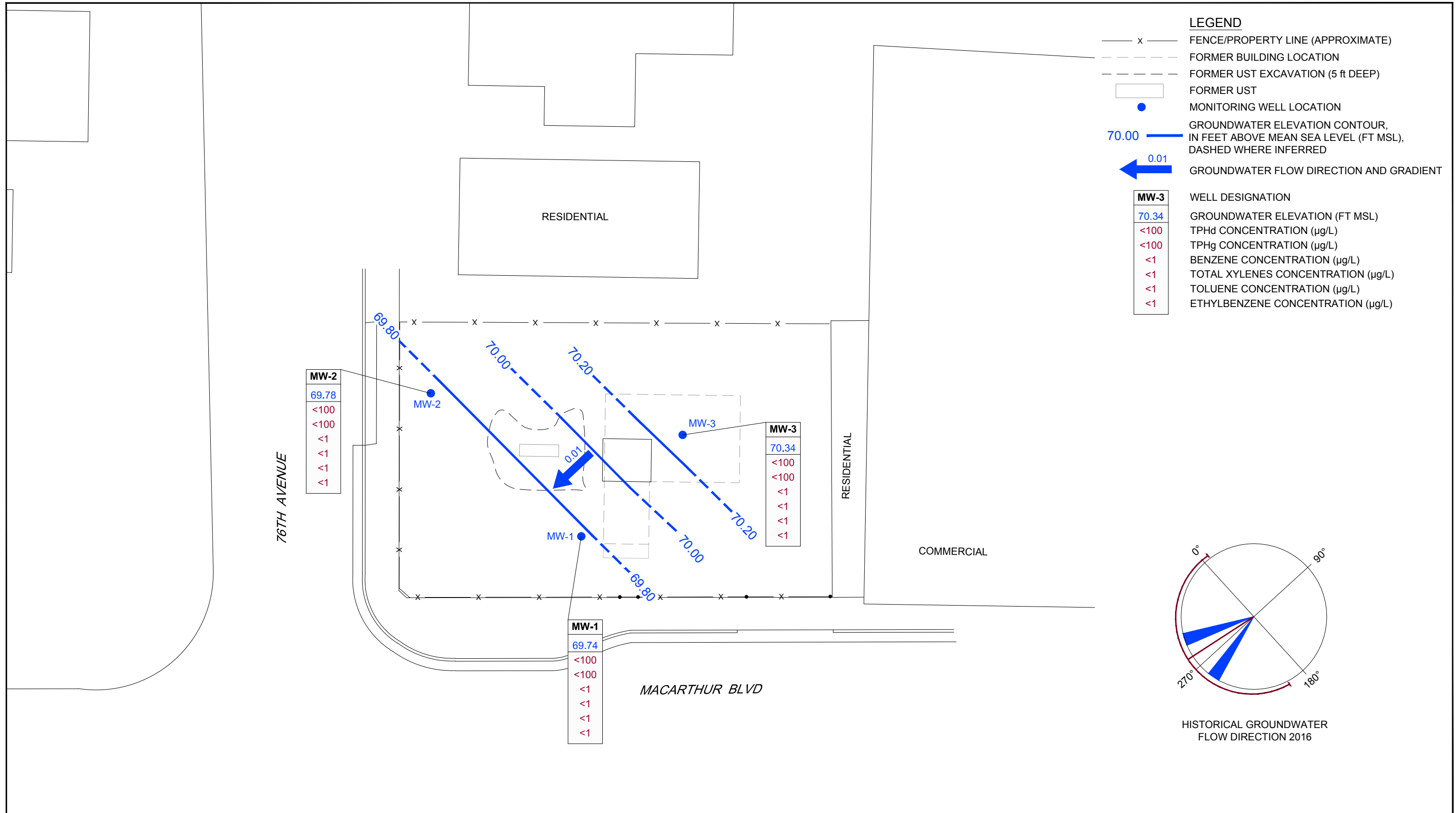


FORMER CHEVRON SERVICE STATION 373378
 7600 MACARTHUR BLVD
 OAKLAND, CALIFORNIA

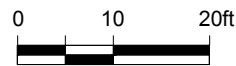
62164-95
 Jan 11, 2017

VICINITY MAP

FIGURE 1



SOURCE: MORROW SURVEYING, OCTOBER 8, 2014.



FORMER CHEVRON SERVICE STATION 373378
7600 MACARTHUR BLVD
OAKLAND, CALIFORNIA

62164-95
Jan 19, 2017

GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON
CONCENTRATION MAP - DECEMBER 15, 2016

FIGURE 2

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-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-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
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

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**

Sample ID	Date Sampled	Additional SVOC's			PAH's															
		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-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-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
QA-T	8/5/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	12/15/2016	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2

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

Sample ID	Date Sampled	Additional SVOC's			PAH's													
		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)

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-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-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
QA-T	8/5/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QA-T	12/15/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Abbreviations and Notes

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

Attachment A Agency Correspondence



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,



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*

Ladies and Gentlemen
RO0003087
July 19, 2016, Page 5

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

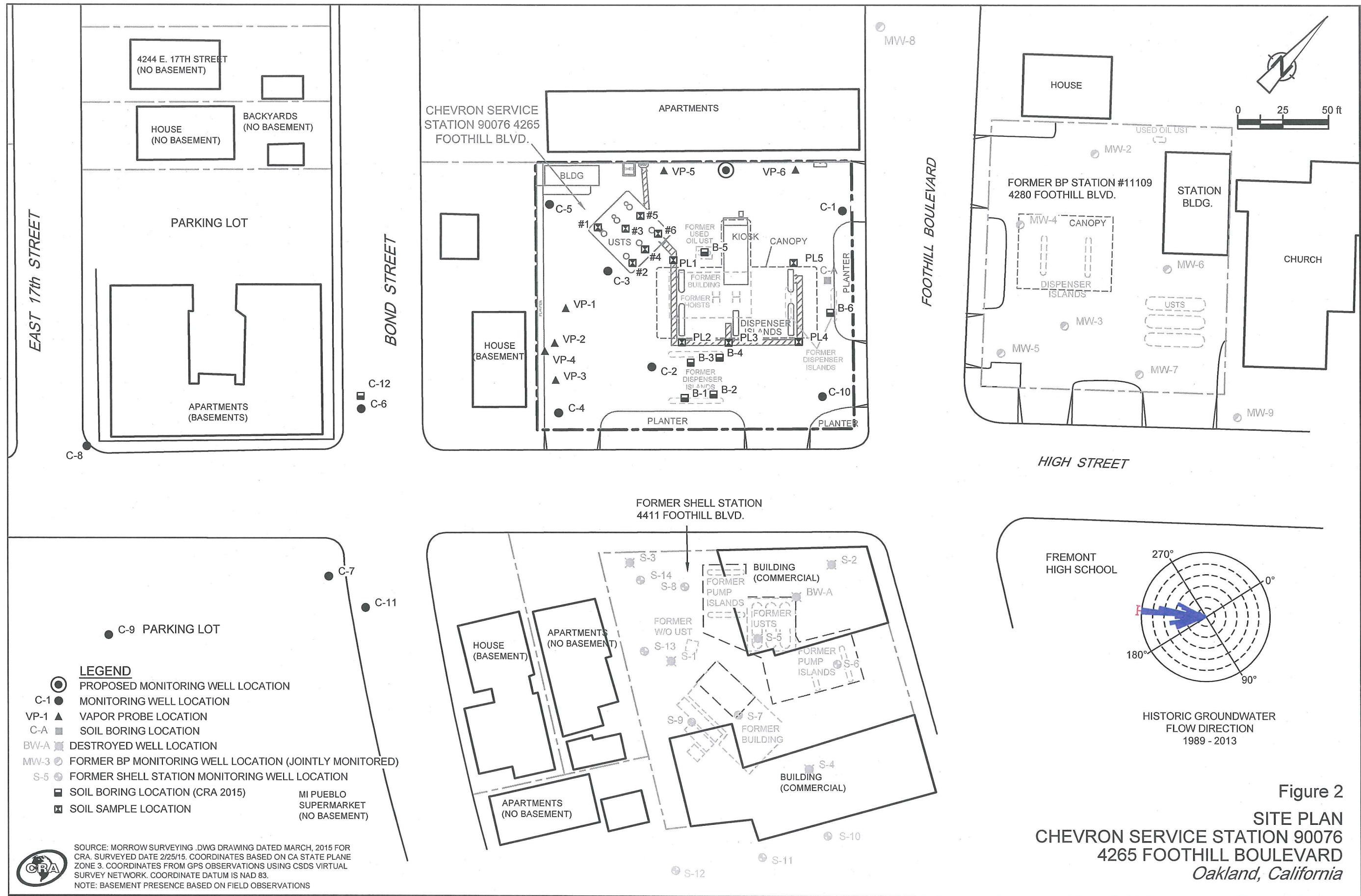
- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original 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.

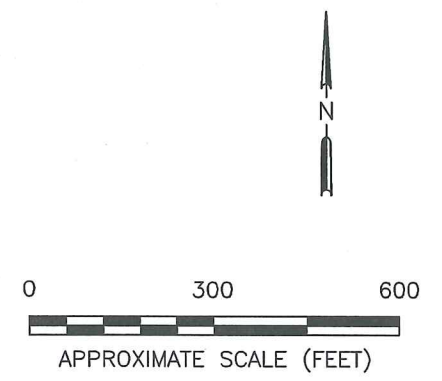
ATTACHMENT 2




SOURCE: MORROW SURVEYING .DWG DRAWING DATED MARCH, 2015 FOR CRA. SURVEYED DATE 2/25/15. COORDINATES BASED ON CA STATE PLANE ZONE 3. COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK. COORDINATE DATUM IS NAD 83.
 NOTE: BASEMENT PRESENCE BASED ON FIELD OBSERVATIONS



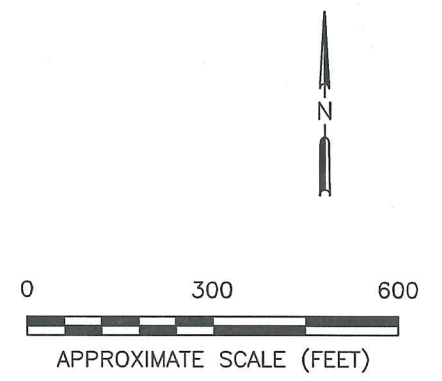
- LEGEND:**
- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
 - MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
 - ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
 - ACTIVE GROUNDWATER MONITORING WELL LOCATION
 - DESTROYED GROUNDWATER MONITORING WELL LOCATION
 - AVERAGE PLUME LENGTH (5 ug/L)
 - 90TH PERCENTILE PLUME LENGTH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



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



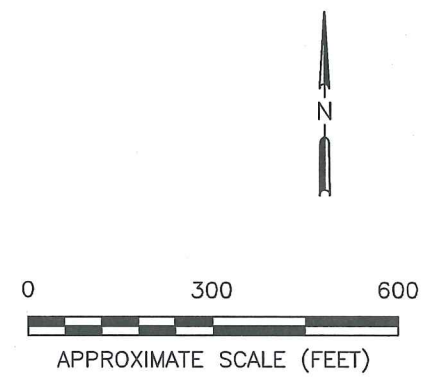
- LEGEND:**
- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
 - MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
 - ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
 - ⊕ ACTIVE GROUNDWATER MONITORING WELL LOCATION
 - ⊖ DESTROYED GROUNDWATER MONITORING WELL LOCATION
 - AVERAGE PLUME LENGTH (5 ug/L)
 - 90TH PERCENTILE PLUME LENGTH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




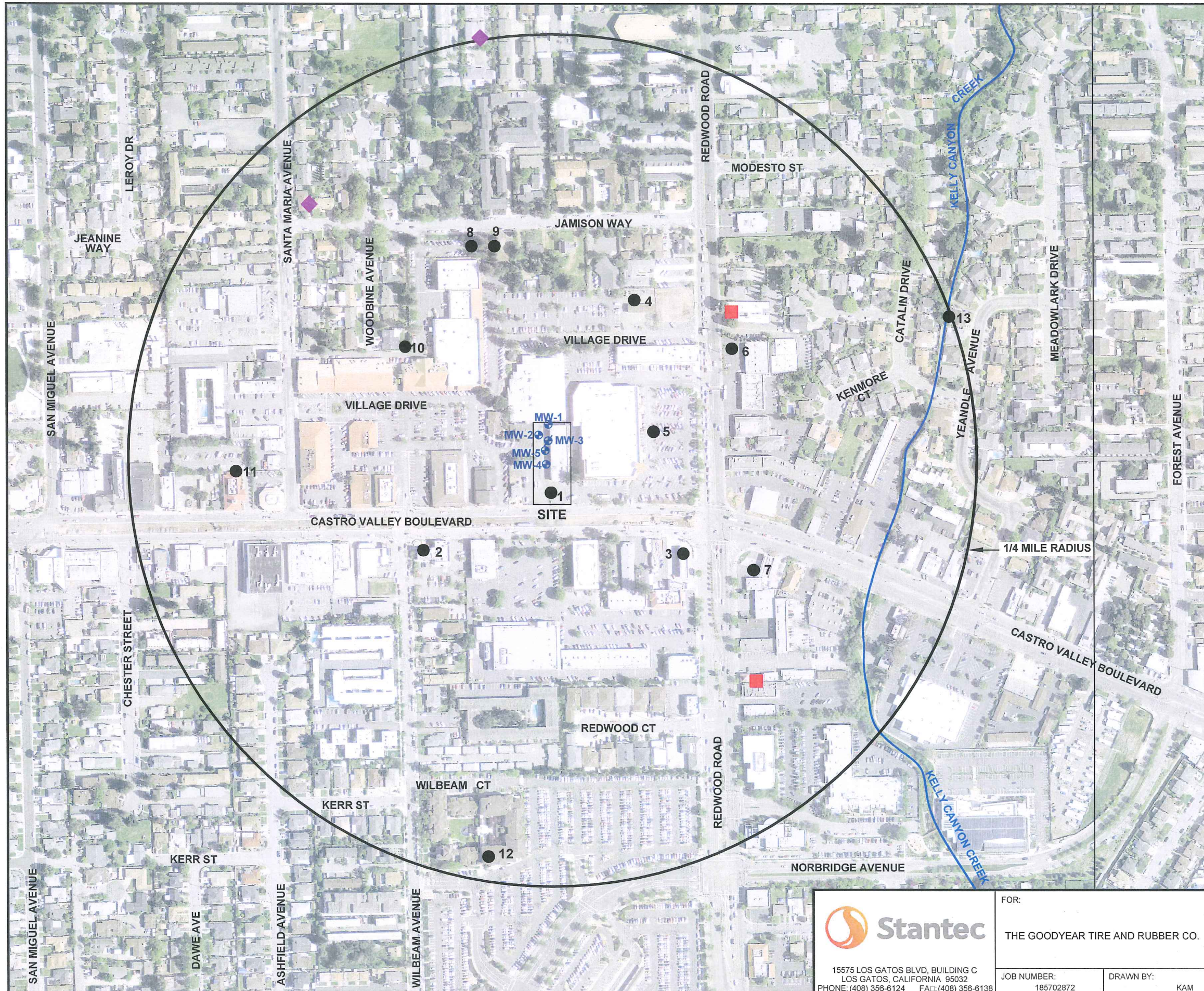
<p>15575 LOS GATOS BLVD, BUILDING C LOS GATOS, CALIFORNIA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138</p>	FOR: THE GOODYEAR TIRE AND RUBBER CO.		POTENTIAL MTBE PLUME LENGTHS BASED ON LTCP TECHNICAL JUSTIFICATION GOODYEAR DEX #9578 3430 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA		FIGURE: 11
	JOB NUMBER: 185702872	DRAWN BY: KAM	CHECKED BY: KM	APPROVED BY: GM	DATE: 01/08/15



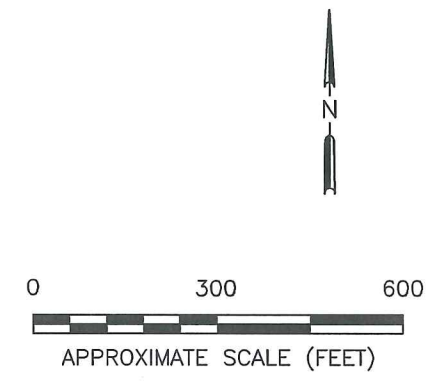
- LEGEND:**
- PROPERTIES WITH WELLS WITHIN 1/4-MILE OF SITE
 - MEDICAL OFFICES WITHIN 1/4-MILE OF SITE
 - ◆ SCHOOLS WITHIN 1/4-MILE OF SITE
 - ⊕ ACTIVE GROUNDWATER MONITORING WELL LOCATION
 - ⊖ DESTROYED GROUNDWATER MONITORING WELL LOCATION
 - AVERAGE PLUME LENGTH (100 ug/L)
 - 90TH PERCENTILE PLUME LENGTH (100 ug/L)
 - MAXIMUM PLUME LENGTH (100 ug/L)




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



- 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



 15575 LOS GATOS BLVD, BUILDING C LOS GATOS, CALIFORNIA 95032 PHONE: (408) 356-6124 FA: (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: 185702872	DRAWN BY: KAM	CHECKED BY: KM	APPROVED BY: GM	DATE: 01/08/15

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

December 22, 2016

G-R #385905

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 Special Event of December 15, 2016

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.

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.

As requested by Chevron Environmental Management Company, 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
 Site Address: 7600 Macarthur Blvd.
 City: Oakland, CA

Job Number: 385905
 Event Date: 12.15.16 (inclusive)
 Sampler: ET

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 37.31 ft.
 Depth to Water: 19.71 ft.

Date Monitored: 12.15.16

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

Check if water column is less than 0.50 ft.

17.60 xVF .17 = 2.99 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 23.23

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters
 Peristaltic Pump _____
 QED Bladder Pump _____
 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): 1150
 Sample Time/Date: 1235 / 12.15.16
 Approx. Flow Rate: 1 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: RAW
 Water Color: LT. BRN Odor: Y / 0
 Sediment Description: S. SILTY
 DTW @ Sampling: 22.89

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1157</u>	<u>3.0</u>	<u>7.96</u>	<u>796</u>	<u>19.0</u>	_____	_____
<u>1204</u>	<u>6.0</u>	<u>7.99</u>	<u>794</u>	<u>19.2</u>	_____	_____
<u>1211</u>	<u>9.0</u>	<u>8.02</u>	<u>788</u>	<u>19.6</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x vov vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL LIST VOC's(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015)
	2 x 1 liter WM glass	YES	HCL	LANCASTER	OIL & GREASE SGT-HEM(1664A)
	2 x 250ml ambers	YES	NP	LANCASTER	PAH's(8270)
	2 x 250ml ambers	YES	NP	LANCASTER	NAPHTHALENE(8270)
	1 x 250ml poly	YES	HNO3	LANCASTER	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
 Site Address: 7600 Macarthur Blvd.
 City: Oakland, CA

Job Number: 385905
 Event Date: 12-15-16 (inclusive)
 Sampler: FT

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 36.06 ft.
 Depth to Water: 20.57 ft.
15.49 xVF > 17 = 2.63 x3 case volume = Estimated Purge Volume: 8.0 gal.

Date Monitored: 12-15-16

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 23.66

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer <input checked="" type="checkbox"/> Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0915
 Sample Time/Date: 0955 / 12.15.16
 Approx. Flow Rate: 1 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: LT. RAIN
 Water Color: LT. B.W. Odor: Y 10
 Sediment Description: S. SILTY
 DTW @ Sampling: 23.64

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0921</u>	<u>2.5</u>	<u>8.23</u>	<u>762</u>	<u>19.2</u>	/	/
<u>0927</u>	<u>5.0</u>	<u>8.17</u>	<u>779</u>	<u>19.4</u>	/	/
<u>0934</u>	<u>8.0</u>	<u>8.13</u>	<u>791</u>	<u>19.8</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/FULL LIST VOC's(8260)
	<u>2</u> x 500ml ambers	YES	NP	LANCASTER	TPH-DRO(8015)
	<u>2</u> x 1 liter WM glass	YES	HCL	LANCASTER	OIL & GREASE SGT-HEM(1664A)
	<u>2</u> x 250ml ambers	YES	NP	LANCASTER	PAH's(8270)
	<u>2</u> x 250ml ambers	YES	NP	LANCASTER	NAPHTHALENE(8270)
	<u>1</u> x 250ml poly	YES	HNO3	LANCASTER	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
 Site Address: 7600 Macarthur Blvd.
 City: Oakland, CA

Job Number: 385905
 Event Date: 12.15.16 (inclusive)
 Sampler: PT

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 37.47 ft.
 Depth to Water: 20.11 ft.

Date Monitored: 12.15.16

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

Check if water column is less than 0.50 ft.
 $17.36 \times VF .17 = 2.95$ x3 case volume = Estimated Purge Volume: 9.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 23.58

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters
 Peristaltic Pump _____
 QED Bladder Pump _____
 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): 1030 Weather Conditions: LT. RAIN
 Sample Time/Date: 1125 / 12.15.16 Water Color: LT. BRN Odor: Y 10
 Approx. Flow Rate: 1 gpm. Sediment Description: S. SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 23.57

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS / cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1038</u>	<u>3.0</u>	<u>7.98</u>	<u>777</u>	<u>19.3</u>	_____	_____
<u>1046</u>	<u>6.0</u>	<u>8.05</u>	<u>784</u>	<u>19.5</u>	_____	_____
<u>1054</u>	<u>9.0</u>	<u>8.13</u>	<u>790</u>	<u>19.7</u>	_____	_____

LABORATORY INFORMATION

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



1L + 500 + 250
Lancaster Laboratories

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

121516-06

1041

1 Client Information				4 Matrix				5 Analyses Requested																																						
Facility # SS#373378-OML G-R#385905 Global ID#T10000003434				Sediment <input type="checkbox"/> <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers				BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Dissolved WEAR METALS Method (6010) FULL LIST VOCs (8260) OIL & GREASE SGT-HEM (1664A) PAHs (8270) NAPHTHALENE (8270)																																						
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 TEVINIOP				3 Composite				Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits <input type="checkbox"/>																																						
2 Sample Identification		Soil Depth	Collected		Grab	Composite	Soil													Water	Oil	Total Number of Containers	6 Remarks																							
			Date	Time																																										
QA			16.12.15																			2													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											
MW-1				1235	X																	3																								
MW-2				0955	X																	3																								
MW-3				1125	X					3																																				

7 Turnaround Time Requested (TAT) (please circle)

Standard 5 day 4 day
 72 hour 48 hour 24 hour **EDF/EDD**

Relinquished by	Date	Time	Received by	Date	Time
				15 DEC 16	1545

8 Data Package (circle if required)

Type I - Full
 Type VI (Raw Data)

EDD (circle if required)

EDDFLAT (default)
 Other: _____

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ °C

Received by _____ Date _____ Time _____

Custody Seals Intact? Yes No

Attachment C Laboratory Analytical Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GHD
10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Report Date: January 05, 2017

Project: 373378 Tidewater Oakland

Submittal Date: 12/16/2016
Group Number: 1745744
PO Number: 4072862
State of Sample Origin: CA

Client Sample Description

QA-T-161215 Water
MW-1-W-161215 Grab Water
MW-2-W-161215 Grab Water
MW-3-W-161215 Grab Water

Lancaster Labs

(LL) #

8750385
8750386
8750387
8750388

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 GHD
Electronic Copy To Chevron
Electronic Copy To GHD

Attn: Matt Davis
Attn: Report Contact
Attn: Chevron EDF

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-161215 Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750385
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016

GHD

Submitted: 12/16/2016 10:00

10969 Trade Center Drive

Reported: 01/05/2017 12:18

Suite 107

Rancho Cordova CA 95670

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	
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: QA-T-161215 Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750385
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016

GHD

10969 Trade Center Drive
Suite 107
Rancho Cordova CA 95670

Submitted: 12/16/2016 10:00

Reported: 01/05/2017 12:18

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	
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	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
10335	8260 Full List w/ Sep. Xylenes	SW-846 8260B	1	N163632AA	12/28/2016 19:03	Matthew S Krause	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N163632AA	12/28/2016 19:03	Matthew S Krause	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16355A20A	12/20/2016 11:47	Brett W Kenyon	1

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

Sample Description: QA-T-161215 Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750385
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016

GHD

Submitted: 12/16/2016 10:00

10969 Trade Center Drive

Reported: 01/05/2017 12:18

Suite 107

Rancho Cordova CA 95670

MBOQA

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	16355A20A	12/20/2016 11:47	Brett W Kenyon	1

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

Sample Description: MW-1-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750386
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 12:35 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750386
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 12:35 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750386
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 12:35 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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	100	1
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07058	Manganese	7439-96-5	0.288	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	55.4	1.1	5.0	1
08014	Boron	7440-42-8	1,200	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	2.0 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	23,900	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	24.1 J	10.0	100	1
01765	Silicon	7440-21-3	16,800	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	11,400	83.3	500	1
07069	Tin	7440-31-5	N.D.	7.1	20.0	1
07070	Titanium	7440-32-6	1.7 J	1.3	10.0	1
07071	Vanadium	7440-62-2	24.0	1.6	5.0	1
07072	Zinc	7440-66-6	N.D.	5.4	20.0	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
00612	SGT-HEM (TPH)	n.a.	N.D.	1.4	5.0	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	N163632AA	12/28/2016 19:27	Matthew S Krause	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N163632AA	12/28/2016 19:27	Matthew S Krause	1

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

Sample Description: MW-1-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750386
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 12:35 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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	16354WAV026	12/21/2016 15:53	Catherine E Bachman	1
07807	BNA Water Extraction	SW-846 3510C	1	16354WAV026	12/20/2016 08:00	Kayla A Yuditsky	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16355A20A	12/20/2016 15:20	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16355A20A	12/20/2016 15:20	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163550010A	12/22/2016 00:55	Heather E Williams	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163550010A	12/20/2016 22:30	Nicholas W Shroyer	1
01743	Aluminum	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07046	Barium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
08014	Boron	SW-846 6010B	1	163551848001	12/22/2016 14:08	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
01750	Calcium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07051	Chromium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07053	Copper	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
01754	Iron	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07055	Lead	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
01757	Magnesium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07058	Manganese	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07061	Nickel	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
10143	Phosphorus	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
01765	Silicon	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07066	Silver	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
01767	Sodium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
12004	Sulfur	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07069	Tin	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07070	Titanium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07071	Vanadium	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
07072	Zinc	SW-846 6010B	1	163551848001	12/21/2016 19:48	Cindy M Gehman	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163551848001	12/21/2016 07:05	Lisa J Cooke	1
00612	SGT-HEM (TPH)	EPA 1664A	1	16364807803A	12/29/2016 08:19	Yolunder Y Bunch	1

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

Sample Description: MW-2-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750387
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 09:55 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750387
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 09:55 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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	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-2-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750387
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 09:55 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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.	N.D.	50	100	1
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07058	Manganese	7439-96-5	0.0035 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	57.3	1.1	5.0	1
08014	Boron	7440-42-8	404	8.3	50.0	1
07049	Cadmium	7440-43-9	N.D.	0.49	5.0	1
01750	Calcium	7440-70-2	58,400	38.2	200	1
07051	Chromium	7440-47-3	3.2 J	1.8	15.0	1
07053	Copper	7440-50-8	4.2 J	4.1	10.0	1
01754	Iron	7439-89-6	172 J	74.7	200	1
07055	Lead	7439-92-1	N.D.	6.2	15.0	1
01757	Magnesium	7439-95-4	25,200	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	37.4 J	10.0	100	1
01765	Silicon	7440-21-3	17,000	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	15,700	83.3	500	1
07069	Tin	7440-31-5	N.D.	7.1	20.0	1
07070	Titanium	7440-32-6	5.8 J	1.3	10.0	1
07071	Vanadium	7440-62-2	33.6	1.6	5.0	1
07072	Zinc	7440-66-6	N.D.	5.4	20.0	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
00612	SGT-HEM (TPH)	n.a.	N.D.	1.4	5.0	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	N163632AA	12/28/2016 19:51	Matthew S Krause	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N163632AA	12/28/2016 19:51	Matthew S Krause	1

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

Sample Description: MW-2-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750387
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 09:55 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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	16354WAV026	12/21/2016 19:51	Brandon H Smith	1
07807	BNA Water Extraction	SW-846 3510C	1	16354WAV026	12/20/2016 08:00	Kayla A Yuditsky	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16355A20A	12/20/2016 15:47	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16355A20A	12/20/2016 15:47	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163550010A	12/22/2016 01:17	Heather E Williams	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163550010A	12/20/2016 22:30	Nicholas W Shroyer	1
01743	Aluminum	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07046	Barium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
08014	Boron	SW-846 6010B	1	163551848001	12/22/2016 14:17	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
01750	Calcium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07051	Chromium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07053	Copper	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
01754	Iron	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07055	Lead	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
01757	Magnesium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07058	Manganese	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07061	Nickel	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
10143	Phosphorus	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
01765	Silicon	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07066	Silver	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
01767	Sodium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
12004	Sulfur	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07069	Tin	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07070	Titanium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07071	Vanadium	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
07072	Zinc	SW-846 6010B	1	163551848001	12/21/2016 19:51	Cindy M Gehman	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163551848001	12/21/2016 07:05	Lisa J Cooke	1
00612	SGT-HEM (TPH)	EPA 1664A	1	17004807801A	01/04/2017 02:03	Huyen Dao-Kendig	1

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

Sample Description: MW-3-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750388
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 11:25 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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	3	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	0.8 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-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750388
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 11:25 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750388
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 11:25 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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.	N.D.	50	100	1
Metals						
	SW-846 6010B		mg/l	mg/l	mg/l	
07058	Manganese	7439-96-5	0.0034 J	0.0018	0.0050	1
	SW-846 6010B		ug/l	ug/l	ug/l	
01743	Aluminum	7429-90-5	107 J	86.8	200	1
07046	Barium	7440-39-3	60.6	1.1	5.0	1
08014	Boron	7440-42-8	1,150	8.3	50.0	1
07049	Cadmium	7440-43-9	N.D.	0.49	5.0	1
01750	Calcium	7440-70-2	63,900	38.2	200	1
07051	Chromium	7440-47-3	3.1 J	1.8	15.0	1
07053	Copper	7440-50-8	4.6 J	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	26,700	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	41.0 J	10.0	100	1
01765	Silicon	7440-21-3	15,600	19.2	50.0	1
07066	Silver	7440-22-4	N.D.	1.9	5.0	1
01767	Sodium	7440-23-5	81,600	173	1,000	1
12004	Sulfur	7704-34-9	15,700	83.3	500	1
07069	Tin	7440-31-5	N.D.	7.1	20.0	1
07070	Titanium	7440-32-6	3.6 J	1.3	10.0	1
07071	Vanadium	7440-62-2	26.7	1.6	5.0	1
07072	Zinc	7440-66-6	N.D.	5.4	20.0	1
Wet Chemistry						
	EPA 1664A		mg/l	mg/l	mg/l	
00612	SGT-HEM (TPH)	n.a.	N.D.	1.4	5.0	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	N163632AA	12/28/2016 20:14	Matthew S Krause	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N163632AA	12/28/2016 20:14	Matthew S Krause	1

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

Sample Description: MW-3-W-161215 Grab Water
Facility# 373378 CRAW
7600 MacArthur Blv-Oakland T10000003434

LL Sample # WW 8750388
LL Group # 1745744
Account # 13534

Project Name: 373378 Tidewater Oakland

Collected: 12/15/2016 11:25 by FT GHD
10969 Trade Center Drive
Submitted: 12/16/2016 10:00 Suite 107
Reported: 01/05/2017 12:18 Rancho Cordova CA 95670

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	16354WAV026	12/21/2016 20:21	Brandon H Smith	1
07807	BNA Water Extraction	SW-846 3510C	1	16354WAV026	12/20/2016 08:00	Kayla A Yuditsky	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16355A20A	12/20/2016 16:13	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16355A20A	12/20/2016 16:13	Brett W Kenyon	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	163550010A	12/22/2016 01:39	Heather E Williams	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	163550010A	12/20/2016 22:30	Nicholas W Shroyer	1
01743	Aluminum	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07046	Barium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
08014	Boron	SW-846 6010B	1	163551848001	12/22/2016 14:20	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
01750	Calcium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07051	Chromium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07053	Copper	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
01754	Iron	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07055	Lead	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
01757	Magnesium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07058	Manganese	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07061	Nickel	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
10143	Phosphorus	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
01765	Silicon	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07066	Silver	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
01767	Sodium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
12004	Sulfur	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07069	Tin	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07070	Titanium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07071	Vanadium	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
07072	Zinc	SW-846 6010B	1	163551848001	12/21/2016 19:54	Cindy M Gehman	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	163551848001	12/21/2016 07:05	Lisa J Cooke	1
00612	SGT-HEM (TPH)	EPA 1664A	1	17004807801A	01/04/2017 02:03	Huyen Dao-Kendig	1

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

Quality Control Summary

Client Name: GHD
Reported: 01/05/2017 12:18

Group Number: 1745744

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** ug/l	LOQ ug/l
Batch number: N163632AA	Sample number(s): 8750385-8750388		
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: 01/05/2017 12:18

Group Number: 1745744

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: 16354WAV026	Sample number(s):	8750386-8750388	
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
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

*- Outside of specification

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Quality Control Summary

Client Name: GHD
Reported: 01/05/2017 12:18

Group Number: 1745744

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Pyrene	N.D.	0.1	0.5
Batch number: 16355A20A	Sample number(s): 8750385-8750388		
TPH-GRO N. CA water C6-C12	N.D.	50	100
Batch number: 163550010A	Sample number(s): 8750386-8750388		
TPH-DRO CA C10-C28	N.D.	32	100
	mg/l	mg/l	mg/l
Batch number: 163551848001	Sample number(s): 8750386-8750388		
Manganese	0.0043 J	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	N.D.	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	N.D.	19.0	100
Molybdenum	N.D.	1.7	10.0
Nickel	N.D.	2.8	10.0
Phosphorus	N.D.	10.0	100
Silicon	23.0 J	19.2	50.0
Silver	N.D.	1.9	5.0
Sodium	211 J	173	1,000
Sulfur	111 J	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
	mg/l	mg/l	mg/l
Batch number: 16364807803A	Sample number(s): 8750386		
SGT-HEM (TPH)	N.D.	1.4	5.0
Batch number: 17004807801A	Sample number(s): 8750387-8750388		
SGT-HEM (TPH)	N.D.	1.4	5.0

LCS/LCSD

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					

*- Outside of specification

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Quality Control Summary

Client Name: GHD
Reported: 01/05/2017 12:18

Group Number: 1745744

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: N163632AA Sample number(s): 8750385-8750388									
Acetone	150	156.34	150	156.52	104	104	50-168	0	30
t-Amyl methyl ether	20	19.69	20	19.68	98	98	67-120	0	30
Benzene	20	20.4	20	20.56	102	103	78-120	1	30
Bromobenzene	20	19.85	20	19.87	99	99	80-120	0	30
Bromochloromethane	20	21.15	20	21.42	106	107	80-125	1	30
Bromodichloromethane	20	19.41	20	19.49	97	97	80-120	0	30
Bromoform	20	18.62	20	18.57	93	93	59-120	0	30
Bromomethane	20	14.47	20	14.92	72	75	55-123	3	30
2-Butanone	150	135.1	150	135.15	90	90	57-145	0	30
t-Butyl alcohol	200	188.74	200	187.41	94	94	70-128	1	30
n-Butylbenzene	20	19.14	20	19.31	96	97	68-120	1	30
sec-Butylbenzene	20	20.6	20	20.56	103	103	77-120	0	30
tert-Butylbenzene	20	21.25	20	21.21	106	106	74-121	0	30
Carbon Disulfide	20	19.6	20	19.62	98	98	58-120	0	30
Carbon Tetrachloride	20	19.39	20	19.27	97	96	74-130	1	30
Chlorobenzene	20	20.15	20	20.44	101	102	80-120	1	30
Chloroethane	20	15.28	20	15.31	76	77	56-120	0	30
2-Chloroethyl Vinyl Ether	20	18.28	20	18.83	91	94	65-120	3	30
Chloroform	20	19.2	20	19.4	96	97	80-120	1	30
Chloromethane	20	16.54	20	16.59	83	83	59-127	0	30
2-Chlorotoluene	20	20.43	20	20.39	102	102	80-120	0	30
4-Chlorotoluene	20	20.02	20	20.19	100	101	80-120	1	30
1,2-Dibromo-3-chloropropane	20	17.5	20	17.28	88	86	59-120	1	30
Dibromochloromethane	20	18.8	20	18.89	94	94	78-120	0	30
1,2-Dibromoethane	20	20.07	20	20.04	100	100	80-120	0	30
Dibromomethane	20	20.05	20	19.9	100	100	80-120	1	30
1,2-Dichlorobenzene	20	19.84	20	19.75	99	99	80-120	0	30
1,3-Dichlorobenzene	20	19.73	20	19.81	99	99	80-120	0	30
1,4-Dichlorobenzene	20	19.82	20	19.91	99	100	80-120	0	30
Dichlorodifluoromethane	20	14.47	20	14.52	72	73	49-134	0	30
1,1-Dichloroethane	20	18.56	20	18.46	93	92	80-120	1	30
1,2-Dichloroethane	20	16.8	20	16.87	84	84	66-128	0	30
1,1-Dichloroethene	20	20.76	20	21.1	104	105	76-124	2	30
cis-1,2-Dichloroethene	20	21.41	20	21.53	107	108	80-120	1	30
trans-1,2-Dichloroethene	20	21.61	20	21.66	108	108	80-120	0	30
1,2-Dichloropropane	20	19.42	20	19.44	97	97	80-120	0	30
1,3-Dichloropropane	20	18.5	20	18.49	93	92	80-120	0	30
2,2-Dichloropropane	20	18.54	20	18.67	93	93	66-128	1	30
1,1-Dichloropropene	20	18.61	20	18.32	93	92	78-120	2	30
cis-1,3-Dichloropropene	20	20.42	20	20.39	102	102	80-120	0	30
trans-1,3-Dichloropropene	20	18.67	20	18.54	93	93	76-120	1	30
Ethanol	500	471.08	500	455.78	94	91	47-155	3	30
Ethyl t-butyl ether	20	18.24	20	18.37	91	92	69-120	1	30
Ethylbenzene	20	19.96	20	20.01	100	100	78-120	0	30
Freon 113	20	19.67	20	19.83	98	99	64-136	1	30
Hexachlorobutadiene	20	17.16	20	16.31	86	82	61-127	5	30
2-Hexanone	100	83.24	100	81.71	83	82	49-146	2	30

*- Outside of specification

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Quality Control Summary

Client Name: GHD
Reported: 01/05/2017 12:18

Group Number: 1745744

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	16.79	20	16.83	84	84	70-124	0	30
Isopropylbenzene	20	20.79	20	20.85	104	104	80-120	0	30
p-Isopropyltoluene	20	20.18	20	20.3	101	102	76-120	1	30
Methyl Tertiary Butyl Ether	20	18.92	20	19.02	95	95	75-120	1	30
4-Methyl-2-pentanone	100	87.18	100	87.56	87	88	55-141	0	30
Methylene Chloride	20	20.12	20	20.35	101	102	80-120	1	30
Naphthalene	20	17.51	20	17.04	88	85	59-120	3	30
n-Propylbenzene	20	20.16	20	20.26	101	101	79-121	1	30
Styrene	20	20.67	20	20.63	103	103	80-120	0	30
1,1,1,2-Tetrachloroethane	20	18.78	20	18.95	94	95	80-120	1	30
1,1,2,2-Tetrachloroethane	20	19.75	20	19.86	99	99	72-120	1	30
Tetrachloroethene	20	20.99	20	21.63	105	108	80-129	3	30
Toluene	20	20.2	20	20.31	101	102	80-120	1	30
1,2,3-Trichlorobenzene	20	17.21	20	16.43	86	82	69-120	5	30
1,2,4-Trichlorobenzene	20	18.07	20	17.91	90	90	72-120	1	30
1,1,1-Trichloroethane	20	17.26	20	17.33	86	87	66-126	0	30
1,1,2-Trichloroethane	20	20	20	19.9	100	100	80-120	0	30
Trichloroethene	20	20.99	20	21	105	105	80-120	0	30
Trichlorofluoromethane	20	15.7	20	15.67	79	78	67-129	0	30
1,2,3-Trichloropropane	20	19.66	20	19.69	98	98	80-120	0	30
1,2,4-Trimethylbenzene	20	19.76	20	20.08	99	100	75-120	2	30
1,3,5-Trimethylbenzene	20	20.12	20	20.38	101	102	75-120	1	30
Vinyl Chloride	20	19.02	20	19.24	95	96	63-121	1	30
m+p-Xylene	40	41.25	40	41.3	103	103	80-120	0	30
o-Xylene	20	20.37	20	20.28	102	101	80-120	0	30

Batch number: 16354WAV026	Sample number(s): 8750386-8750388	ug/l	ug/l	ug/l	ug/l	
Acenaphthene	50	47.87			96	64-121
Acenaphthylene	50	39.76			80	63-120
Anthracene	50	46.51			93	70-125
Benzo (a) anthracene	50	50.55			101	74-124
Benzo (a) pyrene	50	45.05			90	71-119
Benzo (b) fluoranthene	50	44.62			89	72-124
Benzo (g, h, i) perylene	50	46.55			93	58-129
Benzo (k) fluoranthene	50	46.35			93	72-126
Chrysene	50	51.33			103	75-129
Dibenz (a, h) anthracene	50	46.88			94	65-126
Fluoranthene	50	47.99			96	74-126
Fluorene	50	47.75			96	67-120
Indeno (1, 2, 3-cd) pyrene	50	45.98			92	63-122
Naphthalene	50	43.79			88	54-109
Phenanthrene	50	47.03			94	70-122
Pyrene	50	46.63			93	69-119

Batch number: 16355A20A Sample number(s): 8750385-8750388

*- 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: 01/05/2017 12:18

Group Number: 1745744

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
TPH-GRO N. CA water C6-C12	1100	995.94	1100	983.19	91	89	77-120	1	30
Batch number: 163550010A TPH-DRO CA C10-C28	1600	1333.54	1600	1315.6	83	82	53-115	1	20
Batch number: 163551848001 Manganese	0.500	0.538			108		80-120		
Batch number: 163551848001 Aluminum	2000	2091.58			105		80-120		
Barium	2000	2107.62			105		80-120		
Boron	2000	1972.28			99		80-120		
Cadmium	50	53.77			108		80-120		
Calcium	4000	4177.73			104		80-120		
Chromium	200	210.46			105		80-120		
Copper	250	269.44			108		80-120		
Iron	1000	1057.1			106		80-120		
Lead	150	163.53			109		80-120		
Magnesium	2000	2127.69			106		80-120		
Molybdenum	2000	2096.57			105		80-120		
Nickel	500	546.93			109		80-120		
Phosphorus	1000	1045.21			105		80-120		
Silicon	1000	1180.34			118		80-120		
Silver	50	53.16			106		80-120		
Sodium	10000	10204.59			102		80-120		
Sulfur	1000	1018.99			102		80-120		
Tin	4000	3998.34			100		80-120		
Titanium	1000	1041.15			104		80-120		
Vanadium	500	541.94			108		80-120		
Zinc	500	525.69			105		80-120		
Batch number: 16364807803A SGT-HEM (TPH)	20	16.1	20	14.6	81	73	64-132	10	18
Batch number: 17004807801A SGT-HEM (TPH)	20	16	20	16.6	80	83	64-132	4	18

MS/MSD

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

*- Outside of specification

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Quality Control Summary

Client Name: GHD
Reported: 01/05/2017 12:18

Group Number: 1745744

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16354WAV026	Sample number(s): 8750386-8750388 UNSPK: P746433									
Acenaphthene	N.D.	50.2	46.85	50.2	44.99	93	90	64-121	4	30
Acenaphthylene	0.116	50.2	39.44	50.2	37.25	78	74	63-120	6	30
Anthracene	N.D.	50.2	45.64	50.2	43.16	91	86	70-125	6	30
Benzo(a)anthracene	N.D.	50.2	47.32	50.2	45.64	94	91	74-124	4	30
Benzo(a)pyrene	N.D.	50.2	44.01	50.2	42.12	88	84	71-119	4	30
Benzo(b)fluoranthene	N.D.	50.2	42.75	50.2	41.83	85	83	72-124	2	30
Benzo(g,h,i)perylene	N.D.	50.2	45.69	50.2	44.42	91	88	58-129	3	30
Benzo(k)fluoranthene	N.D.	50.2	44.38	50.2	43.2	88	86	72-126	3	30
Chrysene	N.D.	50.2	46.83	50.2	44.58	93	89	75-129	5	30
Dibenz(a,h)anthracene	N.D.	50.2	45.66	50.2	44.15	91	88	65-126	3	30
Fluoranthene	N.D.	50.2	46.65	50.2	45.08	93	90	74-126	3	30
Fluorene	N.D.	50.2	46.84	50.2	44.67	93	89	67-120	5	30
Indeno(1,2,3-cd)pyrene	N.D.	50.2	45.23	50.2	43.31	90	86	63-122	4	30
Naphthalene	N.D.	50.2	44.56	50.2	41.75	89	83	54-109	7	30
Phenanthrene	N.D.	50.2	46.03	50.2	43.48	92	87	70-122	6	30
Pyrene	N.D.	50.2	45.11	50.2	42.93	90	86	69-119	5	30
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 163551848001	Sample number(s): 8750386-8750388 UNSPK: P749595									
Manganese	3.35	0.500	3.75	0.500	3.81	80 (2)	93 (2)	75-125	2	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 163551848001	Sample number(s): 8750386-8750388 UNSPK: P749595									
Aluminum	116.91	2000	2185.07	2000	2208.1	103	105	75-125	1	20
Barium	277.14	2000	2283.24	2000	2341.72	100	103	75-125	3	20
Boron	219.21	2000	2205.87	2000	2257.3	99	102	75-125	2	20
Cadmium	1.01	50	51.76	50	52.99	102	104	75-125	2	20
Calcium	140373.72	4000	140072.73	4000	142713.88	-8 (2)	59 (2)	75-125	2	20
Chromium	N.D.	200	204.68	200	207.63	102	104	75-125	1	20
Copper	N.D.	250	262.49	250	269.21	105	108	75-125	3	20
Iron	2703.98	1000	3579.88	1000	3661.16	88	96	75-125	2	20
Lead	N.D.	150	153.54	150	159.19	102	106	75-125	4	20
Magnesium	31302.22	2000	32387.85	2000	32966.92	54 (2)	83 (2)	75-125	2	20
Molybdenum	4.80	2000	2066.41	2000	2120.04	103	106	75-125	3	20
Nickel	N.D.	500	504.5	500	515.53	101	103	75-125	2	20
Phosphorus	60.73	1000	1136.94	1000	1157.13	108	110	75-125	2	20
Silicon	17639.94	1000	18148.64	1000	18445.13	51 (2)	81 (2)	75-125	2	20
Silver	N.D.	50	52.91	50	53.5	106	107	75-125	1	20
Sodium	106755.65	10000	114147.6	10000	116350.04	74 (2)	96 (2)	75-125	2	20
Sulfur	13535.51	1000	14088.27	1000	14329.71	55 (2)	79 (2)	75-125	2	20
Tin	N.D.	4000	3884.83	4000	3971.35	97	99	75-125	2	20
Titanium	2.79	1000	1038.04	1000	1062.91	104	106	75-125	2	20
Vanadium	N.D.	500	543.52	500	554.67	109	111	75-125	2	20

*- 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: 01/05/2017 12:18

Group Number: 1745744

MS/MSD (continued)

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Zinc	N.D.	500	510.06	500	521.35	102	104	75-125	2	20
Batch number: 16364807803A SGT-HEM (TPH)	Sample number(s): 8750386 UNSPK: P737486 N.D.	21.5	9.57			45*		64-132		
Batch number: 17004807801A SGT-HEM (TPH)	Sample number(s): 8750387-8750388 UNSPK: P764446 3.67	22.2	8.00			20*		64-132		

Laboratory Duplicate

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

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 163551848001 Manganese	Sample number(s): 8750386-8750388 BKG: P749595 3.35	3.30	1	20
Batch number: 163551848001	Sample number(s): 8750386-8750388 BKG: P749595			
Aluminum	116.91	N.D.	200* (1)	20
Barium	277.14	273.46	1	20
Boron	219.21	212.59	3 (1)	20
Cadmium	1.01	1.06	5 (1)	20
Calcium	140373.72	138132.79	2	20
Chromium	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Iron	2703.98	2624.39	3	20
Lead	N.D.	N.D.	0 (1)	20
Magnesium	31302.22	30726.34	2	20
Molybdenum	4.80	N.D.	200* (1)	20
Nickel	N.D.	N.D.	0 (1)	20
Phosphorus	60.73	62.85	3 (1)	20
Silicon	17639.94	17370.58	2	20
Silver	N.D.	N.D.	0 (1)	20
Sodium	106755.65	105110.4	2	20
Sulfur	13535.51	13383.33	1	20
Tin	N.D.	N.D.	0 (1)	20
Titanium	2.79	2.40	15 (1)	20
Vanadium	N.D.	N.D.	0 (1)	20
Zinc	N.D.	N.D.	0 (1)	20

*- 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: 01/05/2017 12:18

Group Number: 1745744

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: N163632AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8750385	96	103	95	97
8750386	98	103	95	97
8750387	97	103	95	97
8750388	96	104	94	95
Blank	97	103	95	96
LCS	97	102	95	97
LCSD	97	102	95	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs 8270C Water
Batch number: 16354WAV026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8750386	75	74	65
8750387	81	80	59
8750388	82	83	64
Blank	68	71	88
LCS	84	88	86
MS	83	85	82
MSD	79	81	78
Limits:	29-119	41-112	38-125

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16355A20A

	Trifluorotoluene-F
8750385	88
8750386	89
8750387	90
8750388	89
Blank	88
LCS	95
LCSD	95
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28
Batch number: 163550010A

	Orthoterphenyl
8750386	86
8750387	87
8750388	92

*- 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: 01/05/2017 12:18

Group Number: 1745744

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: TPH-DRO CA C10-C28
Batch number: 163550010A

	Orthoterphenyl
Blank	86
LCS	101
LCSD	102

Limits: 50-124

*- 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



1L + 500 + 250
**Lancaster
 Laboratories**

Acct. # **13534**

For Eurofins Lancaster Laboratories use only
 Group # **1745744** Sample # **8750385-88**
 Instructions on reverse side correspond with circled numbers.

121516-06

1041

1 Client Information				4 Matrix				5 Analyses Requested												6 Remarks			
Facility # SS#373378-OML G-R#385905 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 TEVINI, NOPI				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil				Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input checked="" type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Oxygenates Total Lead Dissolved WEAR METALS Method WEAR METALS (6010) FULL LIST VOCs (8260) OIL & GREASE SBT-HEM (1664A) PAHs (8270) NAPHTHALENE (8270)												SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits			
2 Sample Identification		Soil Depth		Collected		Grab		Composite														6 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	
QA		16-12-15																					
MW-1		↓		1235		X																	
MW-2		↓		0955		X																	
MW-3		↓		1125		X																	
7 Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour EDF/EDD				Relinquished by <i>[Signature]</i> Date _____ Time _____ Relinquished by <i>[Signature]</i> Date 15 DEC 16 Time 1630				Received by <i>[Signature]</i> Date 15 DEC 16 Time 1545								9							
8 Data Package (circle if required) Type I - Full Type VI (Raw Data)				EDD (circle if required) EDFFLAT (default) Other: _____				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____				Received by <i>[Signature]</i> Date 12-16-16 Time 1000				Temperature Upon Receipt 0.1-2.0 °C Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

Client: CA Office

Delivery and Receipt Information

Delivery Method:	<u>BASC</u>	Arrival Timestamp:	<u>12/16/2016 10:00</u>
Number of Packages:	<u>3</u>	Number of Projects:	<u>2</u>
State/Province of Origin:	<u>CA</u>		

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:	No	VOA Vial Headspace \geq 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 Timothy Cubberley (6520) at 11:07 on 12/16/2016

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	DT131	0.9	DT	Wet	Y	Bagged	N
2	DT131	1.7	DT	Wet	Y	Bagged	N
3	DT131	2.0	DT	Wet	Y	Bagged	N

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 \geq 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.

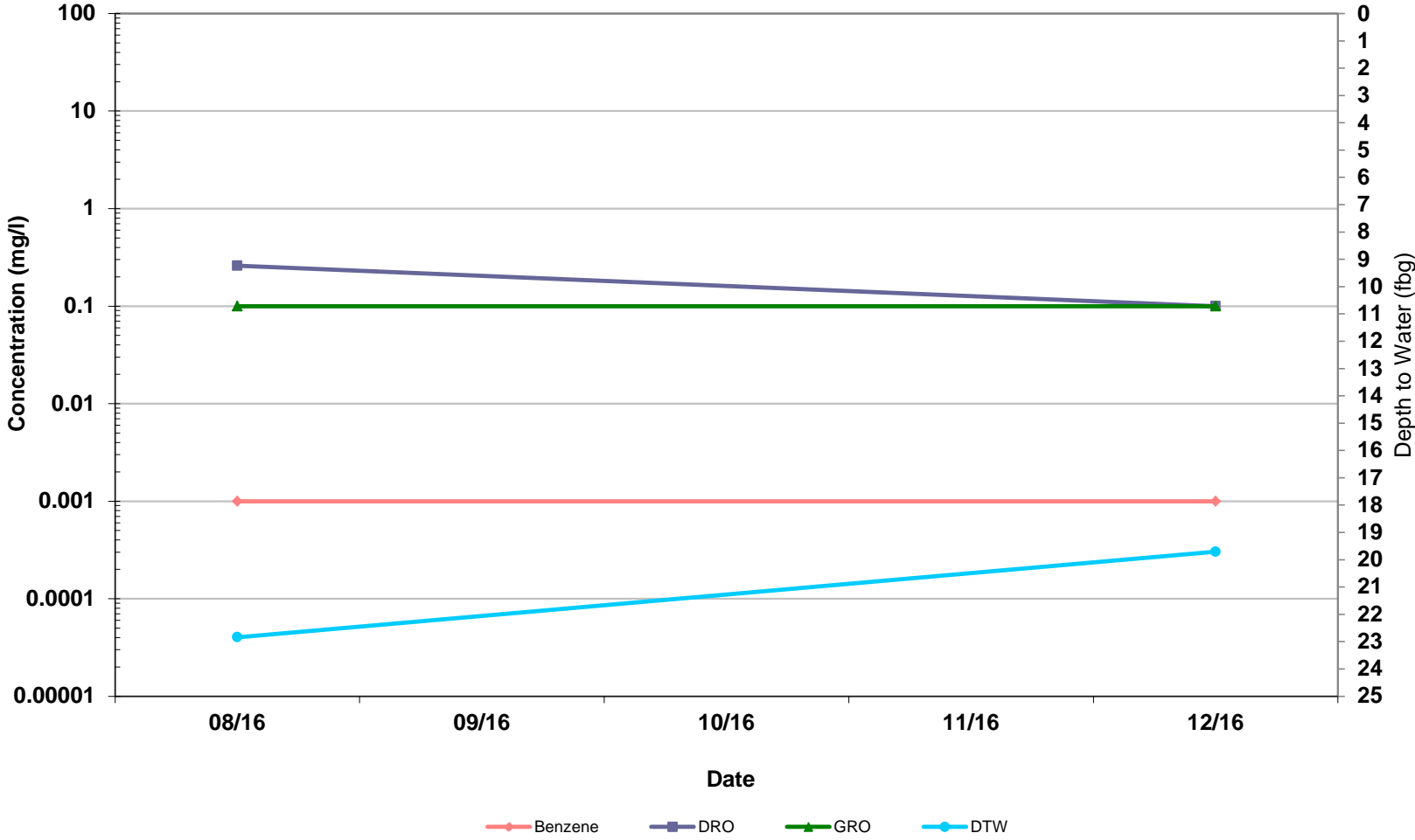
This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

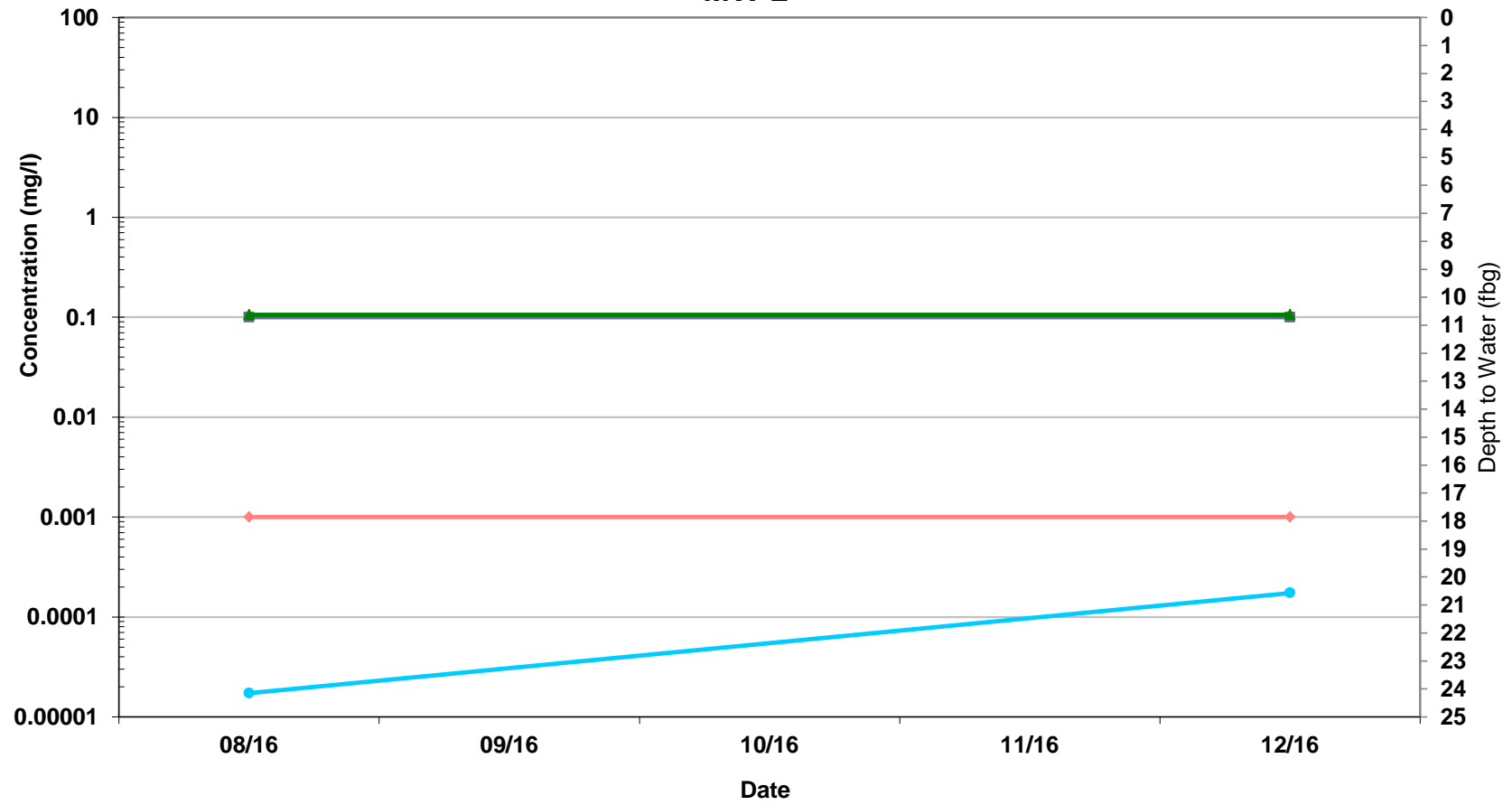
Attachment D Groundwater Elevation and Concentration Graphs

MW-1



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

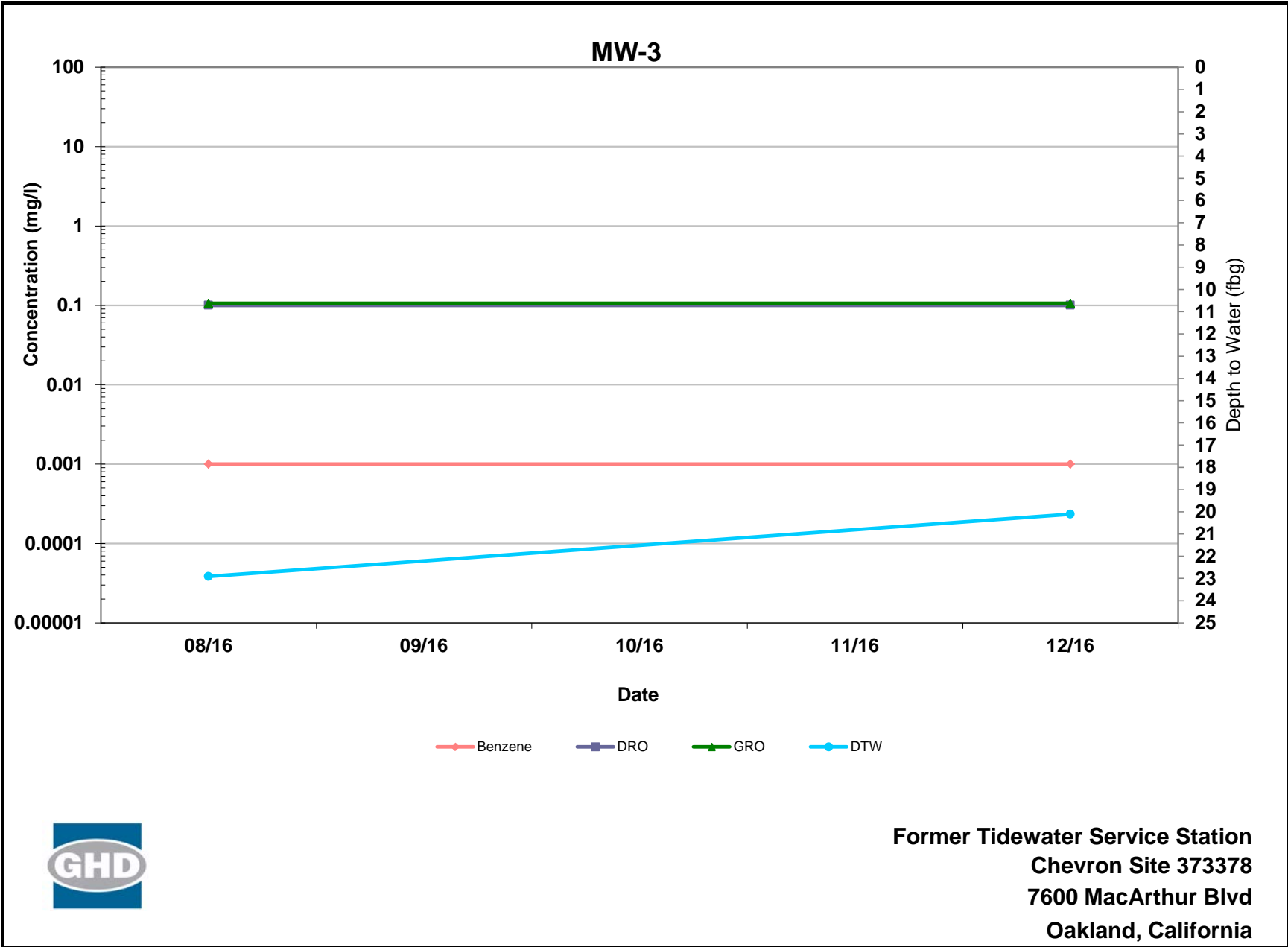
MW-2



Legend: Benzene (red diamond), DRO (purple square), GRO (green triangle), DTW (cyan circle)



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

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

SC PPW 7/20/2015

WORK ORDER NO 1602430471

DOCUMENT NO. 0027471

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 Seaport Refining & Environmental			SHIPPER Texaco Downstream Properties		
FACILITY EPA ID # CAR000239673			SHIPPER EPA ID # NONERQUIRED		
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
01	TT		A. NON HAZARDOUS, NON D.O.T. REGULATED, (PURGE WATER)	494	G
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS A.500-1340			EMERGENCY PHONE #: (800) 483-3718		GENERATOR: Texaco Downstream Properties

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.

SHIPPER	PRINT Desiree Walton	SIGN <i>[Signature]</i>	DATE 8-5-16
TRANSPORTER 1	PRINT NATHANIEL GUARY	SIGN <i>[Signature]</i>	DATE 8-5-16
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN <i>[Signature]</i>	DATE 8-5

1

Tracking #
1344080516

Sales Order
160243071



Seaport Environmental
NON-HAZARDOUS WATER TRANSPORT FORM

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GENERATOR INFORMATION

Chevron EMC
6805 Sierra Court, Suite G
Dublin Ca

CUSTOMER INFORMATION

Clean Harbors Environmental
781-792-5000
PO # W160728994

DESCRIPTION OF WATER: Purge Water
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 281.4 (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.

Desiree Walton
Generator/Authorized Agent

[Signature] 8/5/16
Sign date

SITE INFORMATION

6805 Sierra Court, Suite G
Dublin
Ca

GROSS	
TARE	
NET	
TOTAL GALLONS	494

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

Clean Harbors

Truck ID: 1733

Driver: NATHANIEL GUM 8-5-16
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 - 1344

Solids %Wt

0

pH

8

Solids Surcharge
\$/USG

Received by: [Signature] [Signature] 8-5
Print full name & sign date

45

Shipment List

Displaying 1 - 5 of 5 records.

Shipment No.	Manifest Tracking/Doc No.	Manifest State Number	Shipment Date	Status	Generator	Disposal Facility
372359-0000019	1340-080516A	1340-080516A	6/1/2016	Shipped	Former Tidewater 372359	Seaport Refining and Environmental, LLC (Redwood City)
211717-0000052	1340-080516B	1340-080516B	7/7/2016	Shipped	Texaco Downstream Properties Inc. 211717	Seaport Refining and Environmental, LLC (Redwood City)
307515-0000070	1340-080516C	1340-080516C	7/13/2016	Shipped	Texaco Downstream Properties Inc. 307515	Seaport Refining and Environmental, LLC (Redwood City)
307996-0000056	1340-080516D	1340-080516D	7/21/2016	Shipped	Texaco Downstream Properties Inc. 307996	Seaport Refining and Environmental, LLC (Redwood City)
373378-0000002	1340-080516E	1340-080516E	7/28/2016	Shipped	Tidewater 373378	Seaport Refining and Environmental, LLC (Redwood City)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-080516A	
5. Generator's Name and Mailing Address Former Tidewater 372359 Chevron EMC Waste Desk San Ramon, CA 94583 Generator's Phone 877 386-6044		Generator's Site Address (if different than mailing address) 195 Brush Street Ukiah, CA 95482			
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		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Haz, Non-DOT regulated liquid (purge water)		1	T T	16	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
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date Leaving U.S.: _____					
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
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-080516B	
5. Generator's Name and Mailing Address Texaco Downstream Properties Inc. 211717 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) 66 Broadway SACRAMENTO, CA 95818			
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		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Haz, Non-DOT regulated liquid (purge water)		1	T T	77	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/Offeor's Printed/Typed Name			Signature		Month Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date Leaving U.S.: _____					
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
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number C A R 0 0 0 2 0 2 7 0 5	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-080516C	
5. Generator's Name and Mailing Address Texaco Downstream Properties Inc. 307515 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) 545 South Main St. RED BLUFF, CA 96080		
6. Transporter 1 Company Name Gettler-Ryan Inc			U.S. EPA ID Number		
7. Transporter 2 Company Name Clean Harbors Environmental Services Inc., MZ			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		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Haz, Non-DOT regulated liquid (purge water)		1	T T	134	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/Offeor's Printed/Typed Name			Signature		Month Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature(for exports only): _____ Date Leaving U.S.: _____					
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
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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 C A R 0 0 0 2 1 4 7 3 4	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-080516D	
5. Generator's Name and Mailing Address Texaco Downstream Properties Inc. 307996 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) 203 Pleasant Ave. Auburn, CA 95603-5127			
6. Transporter 1 Company Name Gettler-Ryan Inc			U.S. EPA ID Number		
7. Transporter 2 Company Name Clean Harbors Environmental Services Inc., MZ			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		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Haz, Non-DOT regulated liquid (purge water)		1	T T	195	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/Offorer's Printed/Typed Name			Signature		Month Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit : _____ Transporter Signature (for exports only): _____ Date Leaving U.S.: _____					
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
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-080516E	
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		
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	1. Non-Haz, Non-DOT regulated liquid (purge water)	1	T T	72	G
	2.				
	3.				
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/Offoror's Printed/Typed Name			Signature		Month Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit : _____ Date Leaving U.S.: _____					
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
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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

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

SC PPW 11/29/2016
WORK ORDER NO. DP1603935442

DOCUMENT NO. 0031807 STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Service, Inc. VEHICLE ID # BTH Rear
 EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792 5000
 TRANSPORTER 2 _____ VEHICLE ID # _____
 EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Seaport Refining & Environmental			SHIPPER Texaco Downstream Properties		
FACILITY EPA ID # CAR000239673			SHIPPER EPA ID # NONERQUIRED		
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
01	TT		A. NON HAZARDOUS, NON D.O.T. REGULATED, (PURGE WATER)	186	G
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		
SPECIAL HANDLING INSTRUCTIONS A.500-1340			EMERGENCY PHONE #: (600) 483-3716		GENERATOR: Texaco Downstream Properties

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.

SHIPPER	<u>Jenny's Manberry</u> PRINT	SIGN	<u>Jenny's Manberry</u>	DATE	<u>12-8-16</u>
TRANSPORTER 1	<u>Brian A. Risher</u> PRINT	SIGN	<u>Brian A. Risher</u>	DATE	<u>12-08-16</u>
TRANSPORTER 2	PRINT	SIGN		DATE	
RECEIVED BY	PRINT	SIGN		DATE	





Seaport Environmental

NON-HAZARDOUS WATER TRANSPORT FORM

BDL # 0031807

TRACKING # 1340-12082016

Empty boxes for tracking information

GENERATOR INFORMATION

TE 3610 (TIDE WATER)

Texaco-Downstream-Properties
6805 Sierra Court, Suite G
Dublin Ca

CUSTOMER INFORMATION

Clean Harbors Environmental
Penny Ash

PO # W160771508

SO# 1603935442

DESCRIPTION OF WATER: Purge Water

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.

Handwritten signature: Jennifer Mayberry, GAR

Generator/Authorised Agent

Handwritten signature and date: J Mayberry 12-8-16

Sign

date

SITE INFORMATION

6805 Sierra Court, Suite G
Dublin
Ca

Table with 2 columns: Description (GROSS, TARE, NET, TOTAL GALLONS) and Value

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

Clean Harbors

Truck ID: BT4

Driver: Brian Rusher

date

Handwritten signature and date: 12/8/16

Table with 2 columns: Description (TIME OUT, TIME IN, TIME SPENT) and Value

DISPOSAL FACILITY INFORMATION EPA ID: CAR 000239673

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

Approval Number

500 - 1340

Solids %Wt

pH

Empty boxes for Solids %Wt and pH

Empty box for Solids Surcharge

Solids Surcharge \$/USG

Received by:
Print full name & sign

date

Shipment List

Manifest Tracking/Doc No. Starts With %1340-120816

Displaying 1 - 5 of 5 records.

Shipment No.	Manifest Tracking/Doc No.	Manifest State Number	Shipment Date	Status	Generator	Disposal Facility
373378-0000003	1340-120816A	1340-120816A	8/5/2016	Shipped	Tidewater 373378	Seaport Refining and Environmental, LLC (Redwood City)
372359-0000021	1340-120816B	1340-120816B	9/6/2016	Shipped	Former Tidewater 372359	Seaport Refining and Environmental, LLC (Redwood City)
211717-0000054	1340-120816C	1340-120816C	10/3/2016	Shipped	Texaco Downstream Properties Inc. 211717	Seaport Refining and Environmental, LLC (Redwood City)
307515-0000072	1340-120816D	1340-120816D	10/17/2016	Shipped	Texaco Downstream Properties Inc. 307515	Seaport Refining and Environmental, LLC (Redwood City)
372359-0000023	1340-120816E	1340-120816E	11/30/2016	Shipped	Former Tidewater 372359	Seaport Refining and Environmental, LLC (Redwood City)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-120816A		
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., MZ			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		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
	1. Non Haz, Non-DOT regulated liquid (purge water)	1	T T	21	G	
	2.					
	3.					
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/Offeor's Printed/Typed Name			Signature		Month Day Year	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ 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 <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-120816B			
5. Generator's Name and Mailing Address Former Tidewater 372359 Chevron EMC Waste Desk San Ramon, CA 94583 Generator's Phone 877 386-6044		Generator's Site Address (if different than mailing address) 195 Brush Street Ukiah, CA 95482					
6. Transporter 1 Company Name Gettler-Ryan Inc			U.S. EPA ID Number				
7. Transporter 2 Company Name Clean Harbors Environmental Services Inc., MZ			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		11. Total	12. Unit	
			No.	Type	Quantity	Wt./Vol.	
	1. Non Haz, Non-DOT regulated liquid (purge water)		1	T T	15	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/Offeor's Printed/Typed Name			Signature		Month Day Year		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature(for exports only): _____ Date Leaving U.S.: _____							
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		
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-120816C	
5. Generator's Name and Mailing Address Texaco Downstream Properties Inc. 211717 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) 66 Broadway SACRAMENTO, CA 95818			
6. Transporter 1 Company Name Gettler-Ryan Inc			U.S. EPA ID Number		
7. Transporter 2 Company Name Clean Harbors Environmental Services Inc., M ²			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		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non Haz, Non-DOT regulated liquid (purge water)		1	T T	7	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
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature (for exports only): _____ Date Leaving U.S.: _____					
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
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number C A R 0 0 0 2 0 2 7 0 5	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-120816D			
5. Generator's Name and Mailing Address Texaco Downstream Properties Inc. 307515 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) 545 South Main St. RED BLUFF, CA 96080					
6. Transporter 1 Company Name Gettler-Ryan Inc			U.S. EPA ID Number				
7. Transporter 2 Company Name Clean Harbors Environmental Services Inc., MZ			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		11. Total	12. Unit	
			No.	Type	Quantity	Wt./Vol.	
	1. Non Haz, Non-DOT regulated liquid (purge water)		1	T T	120	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/Offeor's Printed/Typed Name				Signature		Month Day Year	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter Signature(for exports only): _____ Date Leaving U.S.: _____							
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	
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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	

GENERATOR	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Waste Tracking Number 1340-120816E		
	5. Generator's Name and Mailing Address Former Tidewater 372359 Chevron EMC Waste Desk San Ramon, CA 94583 Generator's Phone 877 386-6044			Generator's Site Address (if different than mailing address) 195 Brush Street Ukiah, CA 95482			
	6. Transporter 1 Company Name Gettler-Ryan Inc				U.S. EPA ID Number		
	7. Transporter 2 Company Name Clean Harbors Environmental Services Inc., MZ				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		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	1. Non Haz, Non-DOT regulated liquid (purge water)		1	T T	23	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		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit : _____ Transporter Signature (for exports only): _____ Date Leaving U.S.: _____							
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		
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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		