

May 15, 2003

Ms. Karen Streich ChevronTexaco P.O. Box 6004 San Ramon, California 94583



3164 Gold Camp Drive Suite 200 Rancho Cordova, California 95670-6021 916/638-2085 FAX: 916/638-8385

Subject:

Soil Borings and Well Installation at Former Chevron Service Station No. 20-6145, 800 Center

Street Oakland CA, California.

Ms. Streich:

This report summarizes the results of the recent subsurface investigation and well installation performed by Delta Environmental Consultants Inc./Network Associate Gettler-Ryan Inc. (GR), at the subject site. This work was performed at the request of ChevronTexaco (Chevron) to further define the degree and extent of petroleum hydrocarbon impact to soil at and in the vicinity of the subject site. The scope of work included: updating the site safety plan, obtaining the required drilling permits from the Alameda County Public Works Agency (ACPWA), advancing 7 Geoprobe® soil borings, installing one on-site groundwater monitoring well, surveying top of casing (TOC) elevation for the new well, developing and sampling new and preexisting wells, collecting and submitting selected soil samples for chemical analysis and preparing a report summarizing the findings of the investigation.

BACKGROUND

The subject site is located on the northeastern corner of the intersection of 8th Street and Center Street in Oakland, California (Figure 1). Topography in the vicinity of the site is relatively flat at an elevation of approximately 15 feet above mean sea level. The nearest surface water is Oakland Inner Harbor approximately one mile south of the site.

The site was first developed as a service station in 1932. Four 1,000-gallon fuel underground storage tanks (USTs) and one waste oil UST, apparently installed when the site was built, were removed in 1973 when the station was closed. The original station facilities, including the building, USTs and the dispenser islands have been removed and the site is now vacant. Properties in the vicinity are developed as residential housing, churches and retail businesses.

PREVIOUS ENVIRONMENTAL WORK

The information discussed below was obtained from files provided by Chevron. Locations of the wells and borings are shown on Figure 2. In 1989, Subsurface Consultants Inc. drilled five soil borings (1 through 5) to depths between 4.5 and 26 feet below ground surface (bgs). Temporary wells were installed in two of these borings. Borings 1 through 4 were installed in the vicinity of the former USTs, the dispenser island, and sumps along the eastern property boundary.

Concentrations up to 14,000 parts per million (ppm) of Total Petroleum Hydrocarbons as diesel (TPHd), up to 31,000 ppm of Total Petroleum Hydrocarbons as gasoline (TPHg) and up to 500 ppm of benzene were detected in soil collected from depths up to 15 feet bgs. One sample from 3.5 feet bgs in boring 5, situated near the hydraulic hoist, contained 16,000 ppm oil and grease (O&G). Grab groundwater samples were collected from borings 1 and 3. TPHd concentrations were non-detect (ND) in either sample. The sample from boring 3 contained benzene (340 parts per billion, or ppb).

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Groundwater Technology Inc. drilled three soil borings (SB-1 through SB-3) to 12 feet bgs and installed four groundwater monitoring wells (MW-1 through MW-4) to 15 feet bgs in 1995. Concentrations of TPHg (up to 14,000 ppm) and benzene (up to 120 ppm) were detected in soil samples collected at 5 and 10 feet bgs in borings SB-1, SB-2 and MW-1. TPHg or benzene was not detected in soil samples from borings SB-3 or MW-2 through MW-4 (except for 0.24 ppm of benzene in the sample from boring MW-3 at 10 feet bgs).

Pacific Environmental Group advanced 5 soil vapor points (SV-1 through SV-5) to depths up to 12 feet bgs in 1997. Petroleum hydrocarbons were detected in soil samples collected from all borings at concentrations up to 8,000 ppm of TPHg and 52 ppm of benzene. Soil vapor samples from these borings contained up to 50,000 micrograms per liter (μ g/l) of TPHg and 65 μ g/l of benzene. The highest soil vapor concentrations were encountered in soil between 6 and 10 feet bgs.

In 1999, Chevron contracted GR to remove the dispenser island, sumps, hydraulic hoist, building foundations, trash enclosure, yard lights and asphalt remaining at the site. This work was initiated in September 1999. At that time, GR encountered one 1,000 gallon UST in the area of the former fuel UST pit along the western property boundary, adjacent to Center Street. One 550 gallon waste oil UST was encountered in front of the existing station building situated along the eastern property boundary. One buried 55 gallon steel drum, apparently used as a makeshift UST, was encountered in the vicinity of the hydraulic hoist inside the station building. At that time, work at the site was discontinued while negotiations between Chevron and the property owner were initiated concerning UST ownership. The USTs were not removed until April 2001. Locations of the former USTs are shown on Figure 2.

On April 12, 2001, GR conducted compliance soil sampling during the removal of one 1,000 gallon gasoline UST, one 550 gallon waste oil UST, the hydraulic hoist and one 55 gallon drum. Two soil samples were collected from beneath the former gasoline UST at approximately 8.5 feet bgs. One soil sample was collected from beneath the former waste oil UST at approximately 8.0 feet bgs. The two soil samples collected from beneath the gasoline UST contained TPHg at 630 and 32 ppm, benzene at 10 and 0.11 ppm and methyl tert-butyl ether (MtBE) at ND and 0.38 ppm. The soil sample collected from beneath the former waste oil UST contained TPHg, TPHd, benzene, MtBE and O&G at 10.0, 3.2, 0.0092, 0.058 and 110 ppm, respectively.

In January, 2002, one off-site groundwater monitoring well (MW-8) was installed downgradient of the subject site (Figure 2). Soil and groundwater samples collected during the installation of MW-8 were analyzed for TPHg, TPHd, benzene, toluene, ethylbenzene, total xylenes (BTEX) and MtBE. In addition, groundwater samples collected after MW-8 was developed were analyzed for the following eight fuel oxygenate compounds: Ethanol, tert-Butyl-alcohol (TBA), MtBE, di-isopropyl ether (DIPE), ethyl tert- butyl ether (ETBE) tertiary Amyl methyl ether (TAME), 1,2-dichloroethane (1,2 DCA) and ethylene dibromide (EDB). The results of the soil chemical analyses were ND for all hydrocarbon constituents analyzed.

On June 21, 2002, GR conducted a subsurface investigation in order to profile soil for landfill acceptance. During the investigation, 23 Geoprobe soil borings were advanced to approximately 12 feet bgs. At each boring location, soil samples were collected at 5 and 10 feet bgs and shipped to the laboratory for chemical analysis.

The results of the chemical analyses were submitted to Allied Waste and two waste approval numbers were issued for acceptance of gasoline and waste oil impacted soil at Forward Landfill in Manteca, California. Sample locations are shown on Figure 4.

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In November 2002, GR conducted overexcavation work at the site. Overexcavations were conducted in the location of the former dispenser island and gasoline UST, and in the areas where the hydraulic lift and sumps were located. The total depth of each overexcavation was 12 feet bgs, except in one location where discolored soil was observed and removed to 14 feet bgs. A total of approximately 1,584 tons hydrocarbon impacted soil were removed from the site and transported to the Allied Waste Landfill in Manteca California.

A total of 34 confirmation soil samples were collected during overexcavation work and sent to Lancaster Laboratories, in Lancaster Pennsylvania (ELAP #2116) for analysis. Analytical results are summarized on Figure 4. During overexcavation of the former pump island and gasoline UST area, MW-1 was destroyed by overexcavation under well destruction permit number W02-1012 issued by the ACPWA. Prior to backfilling, approximately 900 pounds of Oxygen Releasing Compound (ORC) was placed in the base of the pump-island and gasoline UST excavation. Each overexcavation was backfilled with class II aggregate base.

Groundwater Sampling

Quarterly monitoring since October 1995 confirms that dissolved hydrocarbons are present in the groundwater beneath the site. The most recent monitoring and sampling event occurred on February 24, 2003. MtBE was not detected in any of the groundwater samples. Groundwater samples collected from wells MW-2, MW-4 and MW-8 did not contain concentrations of TPHg or BTEX. MW-1A contained TPHg at 5,100 ppb and benzene at 92 ppb. Groundwater samples collected from MW-3, located south of the former dispenser island (Figure 2), contained the highest concentrations of TPHg (52,000 ppb) and benzene (9,600 ppb).

Historically, groundwater elevations at the site have varied from 2.45 feet below mean sea level (MSL) (12.97 feet below the top of well casing) to 13.27 feet below MSL (2.37, feet below TOC). Groundwater flow direction at the site is generally to the south with an average gradient of approximately 0.03 ft/ft.

CURRENT INVESTIGATION

All fieldwork and sampling was conducted in accordance with GR's Field Methods and Procedure (attached). The Geoprobe® borings were advanced under drilling permit number W03-0055, issued on January 22, 2003 by the ACPWA and the monitoring well was installed under drilling permit number W02-1246 issued on December 16, 2002 by the ACPWA. Mr. James Yoo of the ACPWA was notified prior to drilling, however he was not on-site during drilling or backfilling of the boreholes. Underground Service Alert (USA) was notified prior to probing at the site, and USA ticket number 027844 was issued.

Geoprobe® Borings

On January 29, 2003, a GR geologist observed Gregg Drilling Inc. (C57 #485165) advance 7 on-site Geoprobe® borings (G-24 through G-30) with a truck mounted rig at the locations shown on Figure 5. The borings were advanced to approximately 16 feet bgs, and soil samples were collected at 5, 10 and 15 feet bgs. The GR geologist prepared logs of the Geoprobe borings and screened the samples in the field for the presence of volatile organic compounds using a photoionization detector (PID). Screening data and the depths at which soil samples were collected are presented on the boring logs included with this report. The boreholes were backfilled with native soil.

Monitoring Well Installation

One groundwater monitoring well, MW-1A, was installed in the proximity of former MW-1 (Figure 3). The boring for MW-1A was drilled with 8-inch diameter hollow stem augers. The well was constructed using 6-feet of two-inch diameter Schedule 40 PVC blank casing and 10-feet of 0.010-inch machine-slotted well screen.

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Lonestar #2/12 graded sand was placed in the annular space of the wells across the entire screened interval and extending 1 ½ foot above the top of the screen. The well was then sealed with 1 feet of hydrated bentonite followed by neat cement grout.

The top of the well is protected by a traffic-rated, water-resistant, vault box, locking well cap, and lock. The well construction detail is presented on the boring log for MW-1A and is included in the attachments with this report. After the well was installed, the top of casing elevation (TOC) was surveyed relative to mean sea level by Virgil Chavez land surveying of Vallejo, California (License #6323). The drilling permits and the TOC survey elevations are include with the attachments in this report.

Well Monitoring Development and Sampling

On February 24 and 25, 2003, static groundwater levels were measured in the new and preexisting wells. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are summarized in Table 3.

After the static water levels were measured, the new monitoring well (MW-1A) and all the preexisting monitoring wells (MW-2 through MW-8) were developed by GR personnel using a 2-inch diameter stainless steel bailer and a submersible pump. Redevelopment of MW-2 through MW-8 was performed to address possible silt accumulation as requested by the Alameda County Environmental Health Services in email correspondence with Chevron dated October 31, 2002. Following development, all wells at the site were sampled in accordance with the quarterly monitoring and sampling program. Copies of the GR Well Development and Groundwater Sampling Field Data Sheets are included in the attachments at the end of this report.

After development, groundwater samples were collected from all wells at the site and analyzed as described below. Water generated during well development and sampling was transported to McKittrick Waste Management, in McKittrick, California for disposal.

Laboratory Analysis

All samples collected were shipped to Lancaster Laboratories in Lancaster, Pennsylvania (ELAP #2116) and analyzed for: TPHg and TPHd (EPA 8015M), BTEX and MtBE (EPA 8021). In addition, two selected soil samples were submitted to Sequoia Analytical for analysis of following physical parameters: moisture content by Association of Testing Methods (ASTM) D 2216, Porosity by ASTM D 3152/D 2325, Bulk Density by ASTM D 2937, Soil pH by EPA Method 9045, grain size by ASTM D 2419/D 422 and Sieve, Total Organic Carbon (TOC) by Walkley Black Method and Permeability by ASTM D 5084.

Soil analytical results are summarized in Tables 1 and 2 in the attachments with this report. Also attached is a concentration map showing the boring locations with sample depths and the corresponding analytical results (Figure 3).

RESULTS

Subsurface Conditions

Groundwater was encountered during probing at depths ranging from 12 to 14 feet bgs. Soil encountered during probing consisted primarily of poorly graded fine grain sand with varying amounts of silt. The lithology encountered is consistent with previous investigations at the site.

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Based on the results of the laboratory grain size analysis and sieve analysis, soil at the site is classified as silty clayey sand or sandy loam (i.e. a permeable soil composed of a mixture of clay, silt and sand). Detailed descriptions of the soil encountered during drilling are presented in the boring logs included in the attachments.

Soil Analytical Results

Borings G-25, G-27, G-29 and G-30 were advanced southwest of the former sump area in the southeast quadrant of the site as shown on Figure 3. The highest concentrations of TPHg, TPHd, benzene and MtBE were detected in soil samples collected at 10 and 15 feet bgs in borings G-25, G-27, G-29 and G-30 in concentrations ranging from 1,200 to 16,000 ppm (TPHg), 170 to 1,600 ppm (TPHd), 8.5 to 92 ppm (benzene) and ND to 150 ppm (MtBE). Soil samples collected from borings G-24, G-26 and G-28 contained TPHg, TPHd, and benzene in concentrations ranging from ND to 620 ppm (TPHg), ND to 52 ppm (TPHd) and ND to 2.3 ppm (benzene) respectively. Soil sample MW-1A, collected at 16 feet bgs during the installation of MW-1A, contained benzene at 0.013 ppm, however TPHg, TPHd and MtBE were not detected in the sample. Sample locations and chemical analytical results are shown on Figure 3 and the soil chemical analytical results are summarized on Table 1. The results of the physical parameters previously described are summarized in Table 2.

Groundwater Analytical Results

Groundwater samples were collected from monitoring wells MW-1A through MW-8 after well development. None of the hydrocarbon constituents analyzed were detected in groundwater samples collected from MW-5 through MW-8. MtBE was not detected in any of the groundwater samples collected. TPHg and benzene were detected in the groundwater samples collected from MW-1A at 5,100 ppb (TPHg) and 92 ppb (benzene) and MW-3 at 52,000 ppb (TPHg) and 9,600 ppb (benzene). TPHd was detected in wells MW-1A through MW-4 in concentrations ranging form 140 ppb and 4,600 ppb. Groundwater analytical data are summarized in Table 3.

Discussion

The Geoprobe® borings (G-24 through G-30) were advanced in locations outside of the former excavations in order to further define soil conditions at the subject site. Analytical data from boring G-25, G-27, G-29 and G-30 indicate that soil within the groundwater fluctuation zone (10 and 15 feet bgs) and in the saturation zone is impacted by petroleum hydrocarbons. Analytical data from well MW-1A (reconstructed after excavation activities) indicate that TPHg and benzene concentrations are lower that the historical data from MW-1. Further monitoring and sampling events will be conducted at the subject site to evaluate trends.

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If you have any questions regarding this report, please feel free to call us in our Sacrament Office at (916) 631-1300.

No. 6882

Sincerely,

Gettler-Ryan Inc.

Andrew Smith Staff Geologist

Senior Geologist, R.G. 6882

Attachments:

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Figure 3 - Potentiometric Map

Figure 4 – Post – Overexcavation – Soil Sample Concentration Map

Figure 5 - Concentration Map

Table 1- Soil Sample Chemical Analytical Data Table 2- Soil Physical Parameter Analytical Data

Table 3- Groundwater Monitoring and Chemical Analytical Data

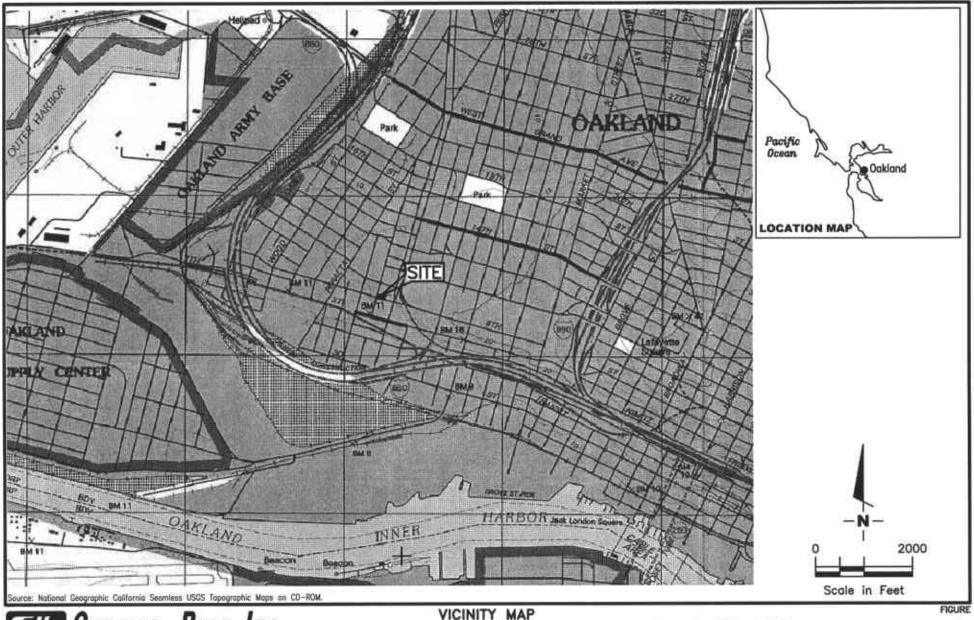
GR's Field Methods and Procedures Boring Logs

Drilling Permits Boring Logs

Groundwater Monitoring and Well Development Field Data Sheets

TOC Survey Data

Laboratory Analytical Reports and Chain-of Custody Records





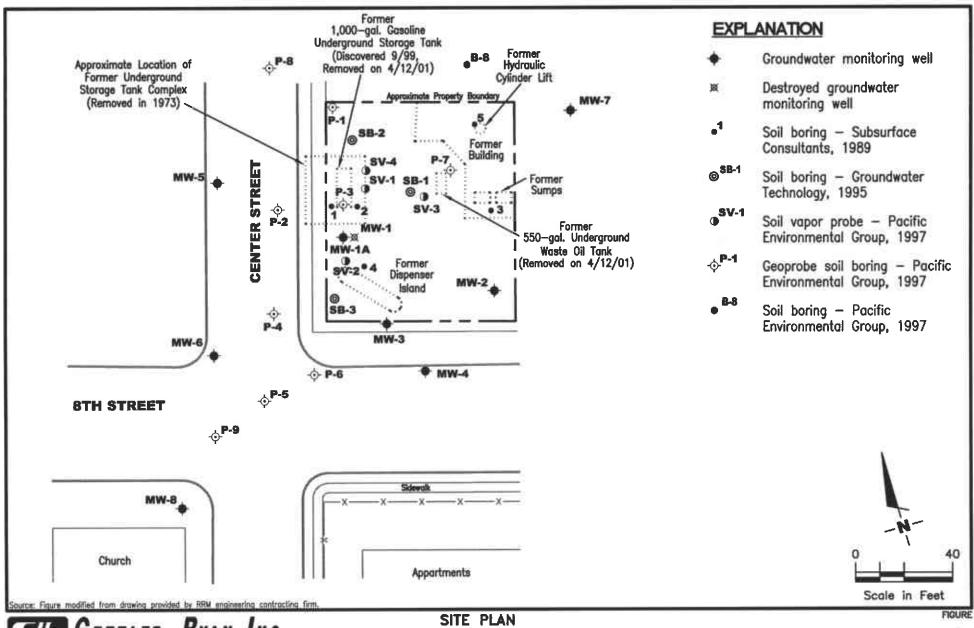
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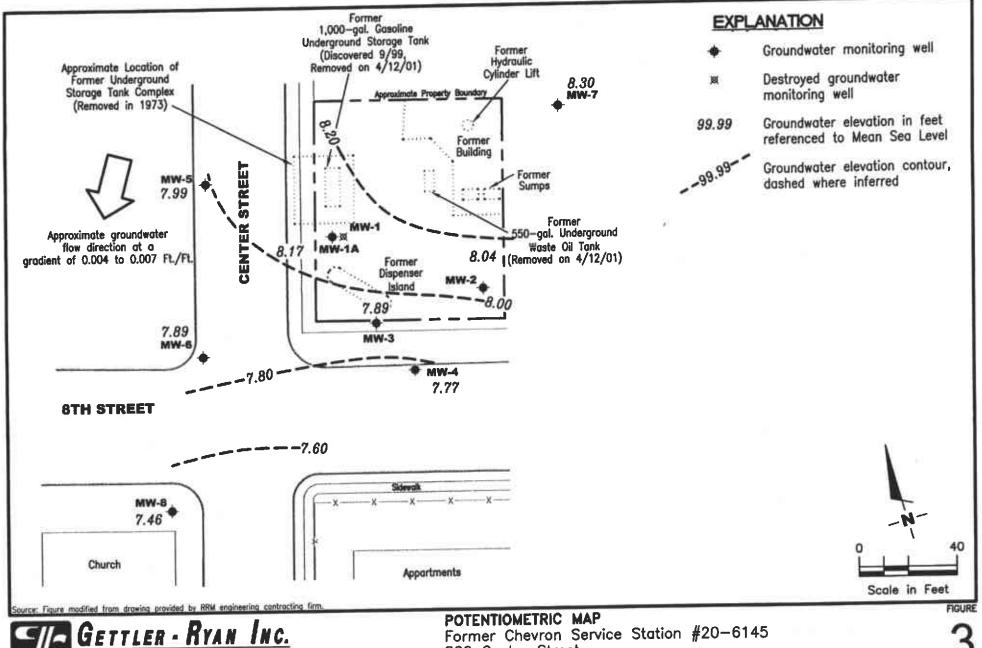


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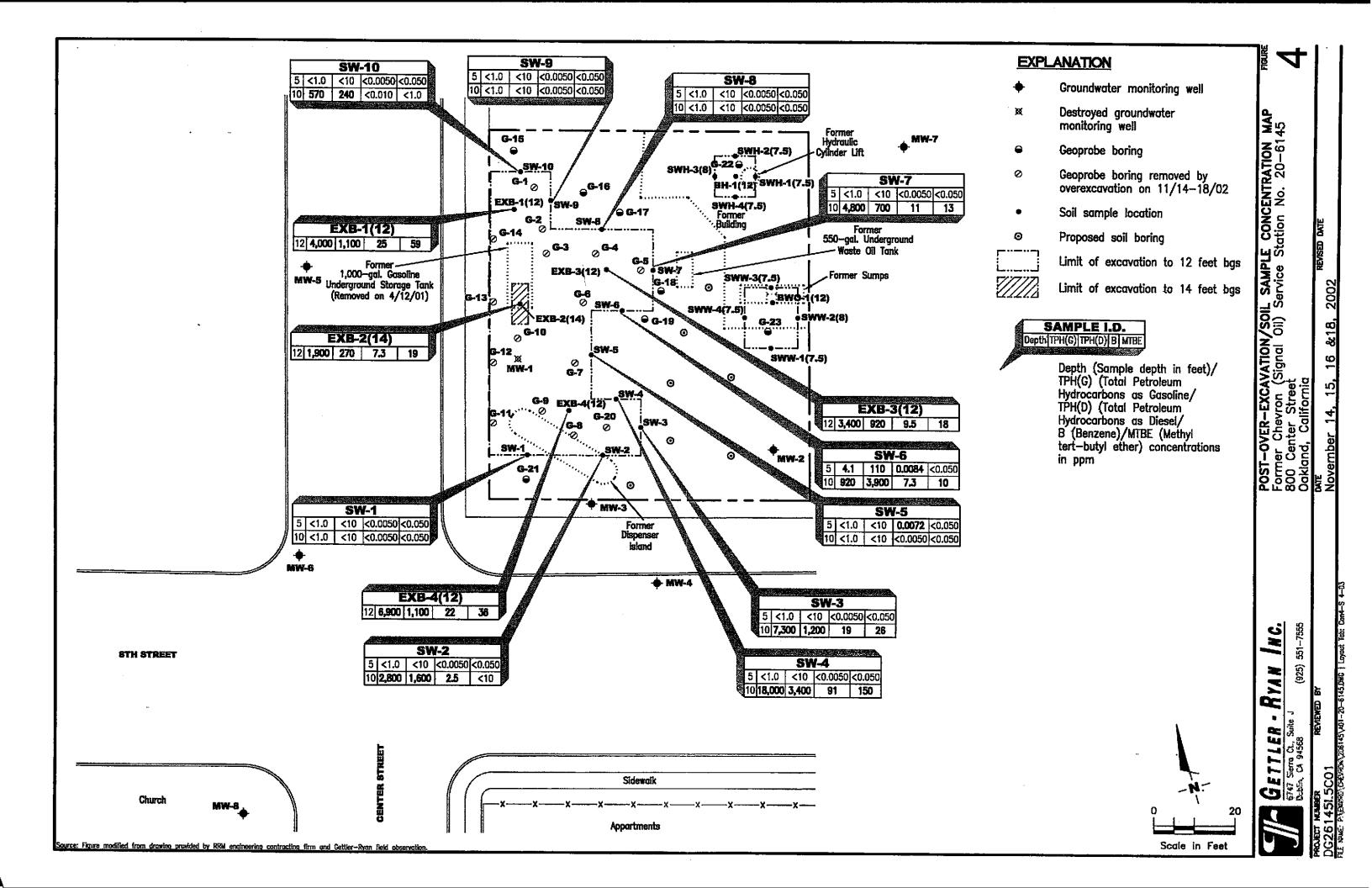
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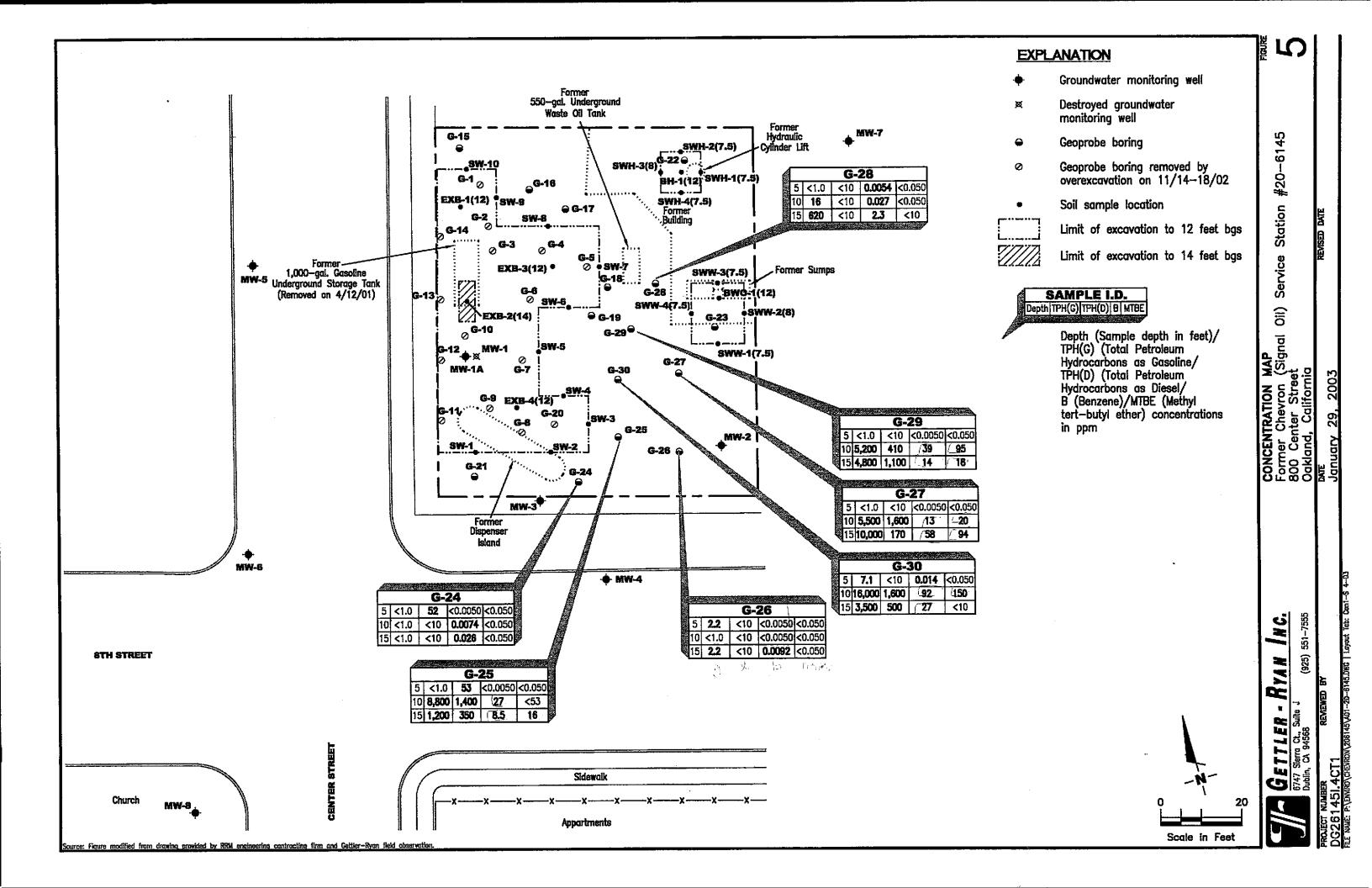


TABLE 1 - SOIL SAMPLE CHEMICAL ANALYTICAL DATA

Former Chevron Service Station No. 20-6145 800 Center Street Oakland, California

		Sample					Ethyl-	Total	
Sample	Sample	Depth	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MtBE
No.	Date	(Feet)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Geoprobe Soil	Samples		·		•				
G-24(5)	1/29/2003	5	52	< 1.0	< 0.0050	0.012	< 0.0050	< 0.015	< 0.050
G-24(10)	1/29/2003	10	<10	<1.0	0.0074	0.014	< 0.0050	< 0.015	< 0.050
G-24(15)	1/29/2003	15	<10	<1.0	0.026	0.012	0.0096	< 0.015	< 0.050
G-25(5)	1/29/2003	5	53	<1.0	< 0.0050	0.0095	< 0.0050	< 0.015	< 0.050
G-25(10)	1/29/2003	10	1,400	8,800	27	560	290	1,200	<53 ¹
G-25(15)	1/29/2003	15	350	1,200	8.5	90	35	140	16
G-26(5)	1/29/2003	5	<10	2.2	< 0.0050	0.020	0.0076	0.036	< 0.050
G-26(10)	1/29/2003	10	<10	<1.0	< 0.0050	0.0092	< 0.0050	< 0.015	< 0.050
G-26(15)	1/29/2003	15	<10	2.2	0.0092	< 0.020	0.019	0.031	< 0.050
G-27(5)	1/29/2003	5	<10	<1.0	< 0.0050	0.020	< 0.0050	0.018	< 0.050
G-27(10)	1/29/2003	10	1,600	5,500	13	250	180	700	20
G-27(15)	1/29/2003	15	170	10,000	58	790	350	1,300	94
G-28(5)	1/29/2003	5	<10	<1.0	0.0054	0.030	0.0063	0.026	< 0.050
G-28(10)	1/29/2003	10	<10	16	0.027	0.096	0.056	0.28	< 0.050
G-28(15)	1/29/2003	15	<10	620	2.3	34	17	71	<10
G-29(5)	1/29/2003	5	<10	<1.0	< 0.0050	0.021	0.0057	0.021	< 0.050
G-29(10)	1/29/2003	10	410	5,200	39	380	160	640	95
G-29(15)	1/29/2003	15	1,100	4,800	14	290	170	670	18

ANALYTICAL METHOD:

TPHg and TPHd =Total Petroleum Hydrocarbons as gasoline and diesel by California Luft /EPA Method 8015B modified Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA method 8021B

 $MtBE = Methyl \ tert-butyl \ ether \ by \ EPA \ Method \ 8021B$

ANALYTICAL LABORATORY:

Lancaster Laboratories (ELAP #2116)

EXPLANATION:

ppm = parts per million

¹= Due to the presence of an interferent near its retention time, the normal reporting limit was not attained.

TABLE 1 - SOIL SAMPLE CHEMICAL ANALYTICAL DATA

Former Chevron Service Station No. 20-6145

800 Center Street

Oakland, California

	• •	Sample					Ethyl-	Total	
Sample	Sample	Depth	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MtBE
No.	Date	(Feet)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Geoprobe Soil	<u>Samples</u>								
G-30(5)	1/29/2003	5	<10	7.1	0.014	0.25	0.14	0.70	< 0.050
G-30(10)	1/29/2003	10	1,600	16,000	92	1,000	480	1,900	150
G-30(15)	1/29/2003	15	500	3,500	27	210	85	370	<10
Monitoring We	ell Soil Sample								
MW-1A(16)	1/29/2003	16	<10	<1.0	0.013	0.033	0.0087	0.027	< 0.050

EXPLANATION:

ppm = parts per million

ANALYTICAL METHOD:

TPHg and TPHd =Total Petroleum Hydrocarbons as gasoline and diesel by California Luft /EPA Method 8015B modified Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA method 8021B

MtBE = Methyl tert-butyl ether by EPA Method 8021B

ANALYTICAL LABORATORY:

Lancaster Laboratories (ELAP #2116)

¹ = Due to the presence of an interferent near its retention time, the normal reporting limit was not attained.

TABLE 2 - SOIL PHYSICAL PARAMETERS.

Former Chevron Service Station # 800 Center Street
Oakland, California

		Sample	Moisture				Grain	
Sample	Sample	Depth	Content %	Porosity	Soil	Sand	Fine	
No.	Date	(in feet)			рH	%	%	
G-24(8)	1/29/2003	8	15.75	34.10	7.82	64.77	34.8	
G-27(14)	1/29/2003	14	18.74	32.97	7.07	69.06	30.9	

EXPLANATION:

lbs/cu ft = Pounds Per Cubic Foot gm/cc = Grams per cubic centimeter TOC = Total Organic Carbon cm/sec = Centimeter per second

ppm = parts per million

ANALYTICAL METHOD:

Moisture Content American Society of Testing And Materials (ASTM) Method D 2216 Porosity by ASTM D 3152/ D 2325 Bulk Density by ASTM Method D 2937 Soil pH by Environmental Protection Agency (EPA) Method 9045

Grain Size by ASTM D 2419/ D 422 $\,$

TOC =Total Organic Carbon by Walkley Black

Permeability by ASTM Method D 5084

TABLE 3 - GROUNDWATER MONITORING AND CHEMICAL ANALYTICAL DATA

Former Chevron Service Station #20-6145 800 Center Street

Oakland, California

Sample No.	Sample Date	Total Well Depth (ft.)	Well ¹ Elev. (ft. MSL)	Depth to Water (ft.)	Floating Product (ft.)	Ground Water Elevation (ft. MSL)	TPHd (ppb)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MtBE (ppb)
MW-1A	2/24/2003	16.83	15.49	7.32	0.00	8.17	4,600	5,100	92	340	66	480	<10
MW-2	2/24/2003	14.39	— 15,69	7.65	0.00	8.04	140	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
MW-3	2/25/2003	14.55	15.40	7.51	0.00	7.89	4,500	52,000	9,600	4,800	2,900	4,100	$<130^{2}$
MW-4	2/24/2003	15.41	14.37	6.60	0.00	7.77	200	<50	8.0	< 0.50	< 0.50	<1.5	<2.5
MW-5	2/25/2003	19.35	15.01	7.02	0.00	7.99	<50	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
MW-6	2/25/2003	16.50	14.68	6.79	0.00	7.89	<50	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
MW-7	2/25/2003	19.35	16.31	8.01	0.00	8.30	<50	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
MW-8	2/25/2003	20.29	15.29	7.83	0.00	7.46	<50	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5

EXPLANATION:

ANALYTICAL LABORATORY:

ft. = feet

Severn Trent Laboratories CA DHS ELAP # 2496

ft. MSL = feet relative to Mean Sea Level

ppb = parts per billion

ANALYTICAL METHODS:

TPHg, TPHd = Total Petroleum Hydrocarbons as gasoline and diesel according to California Luft /EPA Method 8015B modified

Benzene, Toluene, Ethylbenzene, and Total Xylenes according to EPA Method 8021B

MtBE = Methyl tertiary-butyl ether according to EPA Method 8021B

¹ = Well elevations reported as top of casing (TOC) surveyed by Virgil Chavez, Licensed California Land Surveyor No. 6323

² = The reporting limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

GETTLER - RYAN FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan, Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the of these plans contents prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Exploratory soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the exploratory soil boring with a split-barrel sampler or other appropriate sampling device fitted with clean brass or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soil is described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

- a. depth relative to underground storage tanks and existing ground surface
- b. depth relative to known or suspected groundwater
- c. presence or absence of contaminant migration pathways
- d. presence or absence of discoloration or staining
- e. presence or absence of obvious gasoline hydrocarbon odors
- f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Stockpile Sampling

Stockpile samples consist of four individual sample liners collected from each 100 cubic yards (yd³) of stockpiled soil material. Four arbitrary points on the stockpiled material are chosen, and discrete soil sample is collected at each of these points. Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass tube into the stockpiled material with a wooden mallet or hand driven soil sampling device. The sample tubes are then covered on both ends with teflon sheeting or aluminum foil, capped, labeled, placed in the

cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Construction of Monitoring Wells

Monitoring wells are constructed in the exploratory borings with Schedule 40 polyvinyl Chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen which generally extends from the total well depth to a point above the groundwater. An appropriately-sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cernent grout.

Wellheads are protected with water-resistant traffic rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting or stored in drums depending on site conditions and regulatory requirements. Stockpile samples are collected and analyzed on the basis of one composite sample per 50 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless or brass sample tube into the stockpiled material with a hand, mallet, or drive sampler. The sample tubes are then covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Wellhead Survey

The top of the newly-installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (M.S.L.).

Well Development

The purpose of well development is to improve hydraulic communication between the well and surrounding aquifer. Prior to development, each well is monitored for the presence of separate-phase hydrocarbons and the depth-to-water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Grab Groundwater Sampling

A Hydropunch® groundwater sampling tool or temporary PVC casing installed in the boring may be used to facilitate grab groundwater sample collection. Samples of groundwater are collected from the surface of the water in the Hydropunch® or temporary casing using a teflon bailer. The water samples are then gently poured into laboratory-cleaned containers and sealed with teflon-lined caps, and inspected for air bubbles to check for headspace. The samples are then labeled by an adhesive label, noted in permanent ink, and promptly placed in an ice storage. A Chain-of-

Custody Record is initiated and updated throughout handling of the samples, and accompanies the samples to the laboratory certified by the State of California for analyses requested.

Groundwater Sampling

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip (or comparable) interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. 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 possible. 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. 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. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

T-811 P.002/002 F-289

Jan-21-03 03:11pm

From-Gettler-Ryan Inc



LEASE PRINT NAME

ALAMEDA COUNTY PUBLIC WORKS AGENCY

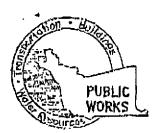
WATER RESOURCES SECTION J99 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (\$10) 670-5554 FAX (510)782-1939

DRILLING PERMIT	APPLICATION
FOR APPLICANT TO COMPLETE LOCATION OF PROJECT 800 Center Street OAKtoria	FOR OFFICE USE PERMIT NUMBER
	PERMIT CONDITIONS Circled Permit Requirements Apply
CLIENT Name Neuron Texaco Address Phone City San Ramon Zip APPLICANT Name 1981//2r - Ryan Inc. Address 6747 Signe of Sum J Phone (125) 551-7844 City Dublin CA Zip 94568	A. GENERAL 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date. 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report. 3. Permit is void if project not begun within 90 days of approval date
TYPE OF PROJECT Well Construction	B. WATER SUPPLY WELLS 1. Minimum surface seal thickness is two inches of coment grout placed by tremic. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and imagnion wells unless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE New Domestic	I. Minimum surface seal thickness is two inches of coment grout placed by tremic. Z. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
DRILLING METHOD: Mad Rotary D Air Rotary D Auger D Cable D Other D	D. GEOTECHNICAL Backfill bore hole by namic with cement grout of cement grout/sand mixture. Upper two-three feet replaced in kind of with compacted entings.
DRILLER'S NAME Greege Drilling & Testing Driller's LICENSENO. C57 # 485165	E. CATHODIC Fill hole anode zone with concrete placed by tremic. F. WELL DESTRUCTION Send a map of work site. A separate permit is required for wells deeper than 45 feet. C. SPECIAL CONDITIONS
WELL PROJECTS Drill Hole Diameter in. Maximum Casing Diameter in. Depth R. Surface Seal Depth R. Owner's Well Number	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
Humber of Burings 4 Maximum Hule Diameter b. Depth 1	
ESTIMATED STARTING DATE 1/29/03 ESTIMATED COMPLETION DATE 1/29/03	APPROVED DATE -22-0
hereby agree to comply with all requirements of this permit and Alameda County On	inance No. 73-68/

Rev.S-13-00

TING DATE PLETION DATE From-Gettler-Ryan Inc

+925 551 7899



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 399 FLMHUKST ST. BAYWARD CA. 94544-1395 PHONE (510) 670-6613 James You

FAX (510)782-1939

Applicants: Please attach a site map for all drilling permit applications DESTRUCTION OF WELLS OVER 45 PEET REQUIRES A SEPARATE PERMIT APPLICATION

APPROVED

DRILLING PERMIT APPLICATION FOR APPLICANT TO COMPLETE FOR OFFICE USE CONTON OF PROJECT PERMIT NUMBER CAKISAL WELL NUMBER APN PERMIT CONDITIONS Circled Permit Requirements Apply A. GENERAL hime 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to graposed starting date, Albanit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report. 3. Permit is void if project not begun within 90 days of approval dale u. Water supply wells 1. Minimum surface cout thickness is two inches of THE OF PROJECT coment grout placed by tremle. Vell Constitution Guotechnical Investigation 7. Minimum teal depth is 50 feet for municipal and bulhadic Projection General Industrial wells or 20 feet for domestic and irrigation Contagination wells unless a leaser depth is specially approved. Mairr Supply Aonthering | Well Destruction GROUNDWATER MONITORING WELLS INCI.UTING PIEZOMETERS DPOSED WATER SUPPLY WELL USE 1. Minimum surface seal thickness is two inches of Replacement Domestic New Demostle 11 11 coment grout placed by trende. Municipal lirigation 11 2. Minimum scal depth for monitoring wells is the ŧι ไทส์บริษาย์ Other 11 nucleion depth practicable or 20 feet. D. GEOTECHNICAL ILLING METHOD: Dackfill bare hole by tremic with coment grout of coment Mud Ratary Air Rothy Auger groul/sand mixture. Upper two-three feet replaced in kind Jubile. Other or with compacted cuttings. E. CATHODIC Fill hale anode zone with concrete placed by trende. F. WELL DESTRUCTION ILLERUS LICENSE NO. Send a map of work site A separate permit is required for wells deeper than 45 feet. G. SPECIAL CONDITIONS AL PROJECTS hill Hale Diameter NOTE: One application must be submirted for each well or well Maximum bring Diameter Depth_{ destruction. Multiple borings on one application are neceptable urface Scal Depth ... Owner's Well Number _ for gentechnical and contamination investigations, TECHNICAL PROJECTS umber of Borings Μακίιηση ole Diameter ___ Depth _

by spice to comply with all requirements of this permit and Adamical County Ordinance No. 73-68.

	G	ettie	'-F	₹уғ	n, I	nc.	Log of Boring G-	-24		
PROJ	ECT:	Former C	hev	ron S	Service	Station No. 20-6145	LOCATION: 800 Center Street, Oakland,	California		
GR P	ROJEC	T NO.:	DG2	61451	.4CT1		SURFACE ELEVATION:			
DATE	STAF	RTED: O	1/29	/03			WL (ft. bgs): 13 DATE: 01/29/03 TIME: 07:40			
DATE	FINI	SHED: 0	1/29	0/03			WL (ft. bgs): DATE: TIME	:		
DRIL	LING I	METHOD:	2 ii	n. Ge	oprobe	- Direct Push	TOTAL DEPTH: 16 feet			
DRIL	LING (COMPANY:	G	regg	Drilling		GEOLOGIST: Andrew Smith			
DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS		
3-	d.	55	0		SP-SM	POORLY GRADED SAN 3/3), moist, loose; 90	ID WITH SILT (SP-SM) - dark brown (7.5YR % fine sand, 10% silt.	Boring backfilled with neat cement to ground surface.		
6	O	G-24 (5) G-24 (8)			SP	POORLY GRADED SAN medium dense; 95% fi	ND (SP) – strong brown (7.5YR 5/6), moist, ne sand, 5% silt.			
12-	o	G-24 (10)				Ţ		-		
15-	1.7	G-24 (15)				Bottom of boring at	16 feet bgs.			
18-			-							

	G	ettler	·-F	lya	n, Ir	nc.	Log of Boring	G-	25
PROJ	ECT:	Former C	hevi	ron S	Gervice	Station No. 20-6145	LOCATION: 800 Center Street, Oakl	and, (California
GR P	ROJEC	T NO.: 1	DG26	31451	.4CTI		SURFACE ELEVATION:		
DATE	STAF	RTED: O	/29/	/03			WL (ft. bgs): 14.5 DATE: 01/29/03	TIME:	08:10
DATE	FINI	SHED: 0	1/29	/03				TIME:	
		 			oprobe	- Direct Push	TOTAL DEPTH: 16 feet		
		COMPANY:			 		GEOLOGIST: Andrew Smith		
DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION		REMARKS
3- 3- 6- 12-	520	G-25 (10)		STREET	OS SM SP-SM	medium dense; 65% fir POORLY GRADED SAN 3/3), moist, medium de	AVEL (SM) - dark brown (7.5YR 3/3), moist, he sand, 20% silt, 15% gravel. D WITH SILT (SP-SM) - dark brown (7.5YR ense; 90% fine sand, 10% silt. D with silt (5P-SM) - dark brown (7.5YR ense; 90% fine sand, 10% silt.		Boring backfilled with neat cement to ground surface.
18-						Bottom of boring at	16 feet bgs.		

JOB NUMBER: DG26145I.4CT1

	G	Settler	'-F	Rya	n, I	nc.	Log of Boring G	-26
PROJ	ECT:	Former C	hev	ron S	Service	Station No. 20-6145	LOCATION: 800 Center Street, Oaklan	d, California
GR PI	ROJEC	T NO.: 1	DG2	61451	.4 <u>C</u> T1		SURFACE ELEVATION:	
DATE	STA	RTED: 01	1/29	/03		·	WL (ft. bgs): 12 DATE: 01/29/03 T1	ME: <i>08:25</i>
DATE	FINI	SHED: 0	1/29	0/03		-	WL (ft. bgs): DATE: TI	ME:
DRIL	LING	METHOD:	2 ii	n. Ge	oprobe	– Direct Push	TOTAL DEPTH: 16 feet	
DRIL	LING	COMPANY:	G	regg	Drilling		GEOLOGIST: Andrew Smith	
ОЕРТН (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS
3	g	G-26 (5)			SP	POORLY GRADED SAN medium dense, 95% fir Color changes to dar		Boring backfilled with neat cement to ground surface.
9—	0	G-26 (8)						-
- 12- - - 15-	1.7	G-26 (10)				♥ Color changes to gre	eenish gray (5GY 4/1).	-
- 18-	-					Bottom of boring at	16 feet bgs.	-
21-	-							-

	G	ettler	·-F	lyε	n, Ir	nc.	Log of Boring G-	27
PROJ	ECT:	Former C	hevi	ron S	Service	Station No. 20-6145	LOCATION: 800 Center Street, Oakland,	California
GR PI	ROJEC	T NO. : 4	DG26	31451	.4CT1		SURFACE ELEVATION:	
DATE	STAI	RTED: 01	/29/	/03			WL (ft. bgs): 13 DATE: 01/29/03 TIME	08:30
DATE	FINI	SHED: 0	1/29	/03			WL (ft. bgs); DATE: TIME	
DRIL	LING	METHOD:	2 in	n. Ge	oprobe	– Direct Push	TOTAL DEPTH: 16 feet	
DRIL	LING	COMPANY:	Gr	egg	Drilling		GEOLOGIST: Andrew Smith	
DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS
3- 6- 12- 15-	0 35 135	G-27 (10) G-27 (14) G-27 (15)		98 STATES OF THE	SP-SM	3/3), moist, medium de	D WITH SILT (SP-SM) - dark brown (7.5YR ense; 90% fine sand, 10% silt. Eng brown (7.5YR 5/6). Denish gray (5GY 4/1).	Boring backfilled with neat cement to ground surface.
21-	-		_	1				

	G	ettler	- F	₹ya	n, Ir	nc.	Log of Boring G-28				
PROJE	CT:	Former C	hev	ron S	Gervice	Station No. 20-6145	LOCATION: 800 Center Street, Oakland,	California			
GR PR	OJEC	T NO.: 1) <i>G</i> 2	6 14 5I	.4CTI		SURFACE ELEVATION:				
DATE	STAF	RTED: 01	/29	/03			WL (ft. bgs); 13 DATE: 01/29/03 TIME: 09:05				
DATE	FINI	SHED: 0	1/29	1/03			WL (ft. bgs): DATE: TIME				
DRILL	ING N	ÆTHOD:	2 ii	n. Ged	oprobe	- Direct Push	TOTAL DEPTH: 16 feet	·			
		COMPANY:					GEOLOGIST: Andrew Smith				
ОЕРТН (feet)	PIO (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	S01L CLASS	(GEOLOGIC DESCRIPTION	REMARKS			
3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	90	G-28 (10)		9 0000000000000000000000000000000000000	SP-SM		D (SP) - strong brown (7.5YR 5/6), moist, e sand, 5% silt. ID WITH SILT (SP-SM) - strong brown hase; 90% fine to medium sand, 10% silt.	Boring backfilled with neat cement to ground surface.			

JOB NUMBER: DG26145I.4CT1

	G	Settler	·-R	lya	n, II	nc.	Log of Boring G-	29
PROJ	ECT:	Former C	hevr	on S	ervice	Station No. 20-6145	LOCATION: 800 Center Street, Oakland,	California
GR PI	ROJEC	T NO.: 4	DG26	1451.	4CT1	· · · · · · · · · · · · · · · · · · ·	SURFACE ELEVATION:	
DATE	STAI	RTED: 0	/29/	′03	-		WL (ft. bgs): 12.5 DATE: 01/29/03 TIME	: 09:45
DATE	FINI	SHED: 0	1/29	/03			WL (ft. bgs); DATE: TIME	:
DRIL	LING I	METHOD:	2 in	. Ged	probe	- Direct Push	TOTAL DEPTH: 16 feet	
DRIL	LING (COMPANY:	Gr	egg i	Drilling		GEOLOGIST: Andrew Smith	
OEPTH (feet)	PIO (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS
3-6-	0	G-29 (5)		<u> </u>	SP	POORLY GRADED SAN medium dense; 95% fii	ID (SP) - strong brown (7.5YR 5/6). moist, ne sand, 5% silt.	Boring backfilled with neat cement to ground surface.
12- 15- 15-	289	G-29 (15)			SP	dense; 95% fine to c	ND (SP) — strong brown (7.5YR 5/6), wet, d, 5% silt.	
21-								- -

JOB NUMBER: DG26145I.4CT1

	G	ettler	'-F	Rya	n, Ir	nc.	Log of Boring G-	-30
PROJ	ECT:	Former C	hev	ron S	ervice	Station No. 20-6145	LOCATION: 800 Center Street, Oakland,	California
		T NO.: 1					SURFACE ELEVATION:	
DATE	STAI	RTED: 0	1/29,	/03			WL (ft. bgs): 14 DATE: 01/29/03 TIME	: 09:55
DATE	FINI	SHED: 0	1/29	1/03			WL (ft. bgs): DATE: TIME	:
ORIL	LING I	METHOD:	2 ir	n. Ged	probe	- Direct Push	TOTAL DEPTH: 16 feet	
		COMPANY:					GEOLOGIST: Andrew Smith	
DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	. (GEOLOGIC DESCRIPTION	REMARKS
3- 3- 6- 12- 15-	0 71 280	G-30 (15)		E9	SP-SM	medium dense; 95% fir Trace gravel. POORLY GRADED SAN (7.5YR 5/6), moist, d	ID WITH SILT (SP-SM) - strong brown ense; 90% fine to medium sand, 10% silt.	Boring backfilled with neat cement to ground surface.
21-				-				-

	6	ettler	-F	lya	n, In	nc.	Log of Boring	MW-1A
PRO	IECT:	Former C	hevi	on S	ervice .	Station No. 20-6145	LOCATION: 800 Center Street, Oa	kland, California
		T NO.: 1					CASING ELEVATION:	
	E STA		/29/				WL (ft. bgs): 12.5 DATE: 01/29/03	TIME: 11:10
——		SHED: 0				···	WL (ft. bgs): DATE:	TIME:
		METHOD:		-	low Ste	m Auger	TOTAL DEPTH: 16.5 feet	
		COMPANY:					GEOLOGIST: Andrew Smith	
DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		DLOGIC DESCRIPTION	WELL DIAGRAM
3- 6- 12-	119	MW-1A (16			SP-SM	POORLY GRADED SAM (5GY 4/1), wet, media silt. Bottom of boring at	ND WITH SILT (SP-SM) - greenish gray um dense; 90% fine to medium sand, 10%	Cap

JOB NUMBER: DG261451.4CT1

Gettler-F	Ryan, Inc.	Log of Boring	MW-1A
JECT: Former Chev	ron Service Station No. 20-6145	LOCATION: 800 Center Street, Oak	land, California
PROJECT NO.: DG2	<u> </u>	CASING ELEVATION:	
TE STARTED: 01/29		WL (ft. bgs): 12.5 DATE: 01/29/03	TIME: 11:10
TE FINISHED: 01/28		WL (ft. bgs): DATE:	TIME:
	in. Hollow Stem Auger	TOTAL DEPTH: 16.5 feet	
	Gregg Drilling	GEOLOGIST: Andrew Smith	
PID (ppm) SAMPLE NUMBER SAMPLE INT.	GEAPHIC LOG SOIL CLASS Class II aggregate by	OLOGIC DESCRIPTION	WELL DIAGRAM
2- 15- 119 MW-1A (16)	POORLY GRADED SA (5GY 4/1), wet, med silt. Bottom of boring at	ND WITH SILT (SP-SM) - greenish gray dium dense; 90% fine to medium sand, 10%	Cap Cap Cap Cap Cap Cap Cap Cap

- A ddus	ChevronTexaco	#200145	JOD	Number: 3	86492	
e Address:	800 Center Stre	et	Eve	ent Date: 🛚 💆	2.24.03	
ty:	Oakland, CA		Sar	mpler:	ГМ	· · · · · · · · · · · · · · · · · · ·
/ell ID	MW-/A	Date N	Vonitored: 02-2	24-03	Well Condition	: <u>Ok</u>
/ell Diameter iitial Total Depth inal Total Depth			Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0. 5"= 1.02 6"= 1.	
epth to Water	7.32 ft. 9.43 xVF	.17	= 1.60 ×10	ase volume) = Es'	imated Purge Volun	ne: <i>//6 ^{F®}30</i> gal.
-	^\\			,	Time Started:	(2400 h
urge Equipment:		-	ling Equipment:		Time Bailed:	
isposable Bailer		•	sable Bailer		Depth to Water	ft
Stainless Steel Baile	r		sure Bailer		Hydrocarbon Thic	kness:
Stack Pump			ete Bailer		Visual Confirmation	
Suction Pump		Other	<u></u>		Climenes / Absort	pant Sock (circle one)
Grundfos						om Skimmer: g
Other:					Amt Removed fro	om Well:g
					Product Transfer	red to:
Time (2400 hr.) 1353 1358 1408	3 5 6 9 12 12	pH 8.92 8.87 8.93 9.06 9.08 9.09	Conductivity (u mhos/cm) 433 420 417 414 421	Temperature (C/F) /5.9 /5.8 /5.8 /5.4 /5.7	D.O. (mg/L)	ORP (mV)
1416 1416 141 141	21 3 24 6 27	9.11 9.13 <u>4.07</u> <u>9.04</u>	421 435 437 422	16.0 16.2 15.8 16.2		
1410	21 3 24 6 27	9.04	435 437	110.0 110.2 15.8 16.2		
1410	21 3 24 6 27 0 30	9.04	435 437 422	1/2.2 15.8 14.Z DRMATION LABORATO		ANALYSES
1410 141 142 142 SAMPLE ID	2/ 3 24 6 27 0 30 (#) CONTAINER	LA REFRIG. I YES	435 437 422 BORATORY INFO PRESERV. TYPE HCL	1/2.2 15.8 14.2 DRMATION LABORATOL LANCASTE	R TPH-G(8015)/	ANALYSES BTEX+MTBE(8021)
/4/2 /4/ /4/ /42	2/ 3 24 6 27 0 30 (#) CONTAINER	LA REFRIG.	435 437 422 BORATORY INFO	1/2.2 15.8 14.Z DRMATION LABORATO	R TPH-G(8015)/	
1410 141 147 142 SAMPLE ID	2/ 3 24 6 27 0 30 (#) CONTAINER	LA REFRIG.	435 437 422 BORATORY INFO PRESERV. TYPE HCL	1/2.2 15.8 14.2 DRMATION LABORATOL LANCASTE	R TPH-G(8015)/	
/ 4/ U / 4 / / 4 / / 4 / / 4 / / W SAMPLE ID MW-/#	2 21 2 4 2 7 3 6 (#) CONTAINER 2 × 3 mbe	LA REFRIG. I YES I YES	435 437 422 BORATORY INFO PRESERV. TYPE HCL	1/2.2 1/5.8 1/6.Z DRMATION LABORATO LANCASTE LANCASTE	R TPH-G(8015)/I R TPH-D	BTEX+MTBE(8021)

	Center Stre	<u>et</u>			7W.	
y: <u>Oa</u>	kland, CA				///·	
ell ID _	MW-Z	Date N	Monitored: 02.	24.03	Well Condition:	ok.
• •	2 in. 10.35 ft.		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0.1 5"= 1.02 6"= 1.5	
nal Total Depth	14.39 ft.					purged 3.
epth to Water	7.65 ft. 2.70 xVF_	17	\$10 = 0.45 × X) see volume) = Fstil	mated Purge Volum	e: 4.5 gal.
	XVF	=	= <u>/2,75</u>	ase volume) – Esm	Time Started:	
urge Equipment:		Samp	ling Equipment:	/	Time Bailed:	(2400 hrs)
isposable Bailer		Dispos	sable Bailer		Depth to Product:_	
tainless Steel Bailer		Press	ure Bailer		Depth to Water: Hydrocarbon Thick	
tack Pump		Discre	ete Bailer		Visual Confirmation	
uction Pump		Other	•	_ }		
irundfos				ļ		ant Sock (circle one) m Skimmer gal
Other:						m Well: gai
					Product Transferre	
Sample Time/Date: Purging Flow Rate: Did well de-water? Time	1.5 gpm.	Sedimer If yes, Time	Conductivity	Volume:	gal. D.O.	ORP (m)0
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /248 /250 /253 /255 /258 /300	/.5 gpm. // Volume (gal.) 3 // // // // // // // // //	Sedimer If yes, Time pH 7.42 7.33 7.25 7.02 6.81 6.78	Conductivity (umhos/cm) 758 750 757 754 751 758 759 759	Volume:		ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /245 /250 /253 /255 /255 /255 /300 /304	/.5 gpm. // Volume (gal.) 3 // // // // // // // // //	Sedimer If yes, Time pH 7.42 7.33 7.25 7.14 7.02 6.81	Conductivity (umhos/cm) 758 750 .752 754 751 758 750 745	Volume:	D.O.	-
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /248 /250 /253 /255 /258 /300	/.5 gpm. // Volume (gal.) 3 // // // // // // // // //	Sedimer If yes, Time pH 7.42 7.33 7.25 7.02 6.81 6.78	Conductivity (umhos/cm) 758 750 757 754 751 758 759 759	Volume:	D.O.	-
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /245 /250 /253 /255 /255 /255 /300 /304	/.5 gpm. // Volume (gal.) 3 // // // // // // // // // // // // /	Sedimer If yes, Time pH 7.42 7.33 7.25 7.14 7.02 6.81 6.78 6.78 6.78 LA	Conductivity (umhos/cm) 758 750 .757 .757 .759 .751 .758 .750 .748 .743 .741 BORATORY INFO	Volume: Temperature (OF) 19-8 19-9 19-9 19-1 19-9 19-9 19-9 19-9	D.O. (mg/L)	(mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /248 /259 /259 /255 /258 /300 /304 /307	/. 5 gpm. // Volume (gal.) 3	Sedimer If yes, Time pH 7.42 7.33 7.25 7.14 7.02 6.81 6.78 6.73 6.73 6.16 REFRIG.	Conductivity (umhos/cm) 758 750 757 754 757 759 759 759 759 759 745 743 741 BORATORY INFO	Volume:	D.O. (mg/L)	(mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /248 /258 /258 /255 /258 /303 /304 /307 SAMPLE ID MW- Z	/. 5 gpm. // Volume (gal.) 3	Sedimer If yes, Time pH 7.42 7.33 7.25 7.14 7.02 6.81 6.73 6.73 LA REFRIG. YES	Conductivity (umhos/cm) 758 750 757 757 759 757 759 759 745 743 741 BORATORY INFO	Volume: Temperature (OF) 14-8 14-9 14-9 14-9 14-9 14-9 14-9 14-9 14-9	D.O. (mg/L) Y TPH-G(8015)/B	(mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /248 /259 /259 /255 /258 /300 /304 /307	/. 5 gpm. // Volume (gal.) 3	Sedimer If yes, Time pH 7.42 7.33 7.25 7.14 7.02 6.81 6.73 6.73 LA REFRIG. YES	Conductivity (umhos/cm) 758 750 757 754 757 759 759 759 759 759 745 743 741 BORATORY INFO	Volume:	D.O. (mg/L) Y TPH-G(8015)/B	(mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) /243 /245 /245 /245 /250 /253 /255 /255 /255 /200 /304 /307 SAMPLE ID MW-Z MW-Z	/. 5 gpm. // Volume (gal.) 3 // // // // // // // // // // // // /	Sedimer If yes, Time pH 7.42 7.33 7.25 7.14 7.02 6.81 6.78 6.78 6.78 LA REFRIG. I YES	Conductivity (umhos/cm) 758 750 757 754 751 758 750 748 743 741 BORATORY INFO PRESERV. TYPE HCL NP	Temperature (OF) 14-8 14-9 14-9 14-1 19-1 19-1 19-1 19-1 LABORATOR LANCASTEF	D.O. (mg/L) Y R TPH-G(8015)/B	(mV)

Add/Replaced Lock: _____

Event Date: 02.24.03 - 02.25.03 Oakland, CA Sampler: Well ID Well Diameter Initial Total Depth Depth to Water Purge Equipment: Disposable Bailer Disposable Bailer Event Date: 02.24.03 - 02.25.03 Sampler: Well Condition: 0.6 Well Condition: 0.6 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 Time Started: (2400 hrs. 1.50 12"= 5.80) Time Bailed: (2400 hrs. 1.50 12"= 5.80) Purge Equipment: Disposable Bailer Depth to Water: 1.50 12"= 5.80	Client/Facility #:	ChevronTexaco	#206145	Job	Number: 3	<u>86492 </u>	
Dakland, CA Sampler: Dake MW-3 Date Monitored: Dake Da		,			ent Date: 6	12.24.03-0.	2.25.03
Well Diameter 2 in.	Dity:			Sar	mpler:	DUL	
nitial Total Depth 73.47 st.			Date N	Monitored: 02.2	4.03	Well Condition	0.K
2.0 9 XVF 7	Initial Total Dept	h $\frac{13.43}{14.55}$ ft.		Factor (VF)	4"= 0.66	5"= 1.02 6"= 1.	.50 12"= 5.80
Purge Equipment: Sampling Equipment: Disposable Baller Disposable Pytes Disposab	Depth to Water	7.5/ ft. 7.04 xVF	./7	= /-/4 x3 (ce	ese volume) = Es	timated Purge Volum	ne: 12+030 gal.
Stainless Steel Bailer	-		Samp	ling Equipment:	_/_	Time Started Time Bailed: Depth to Product:	(2400 hrs
Skimmer Absorbant Sock (circle one)	Stainless Steel Bail Stack Pump	er	Discre	ete Bailer		Hydrocarbon Thic	kness:ft
Sample Time/Date:	Grundfos		0410			Amt Removed fro Amt Removed fro	om Skimmer: gal om Well: gal
Time	Sample Time/I	Date: <u>/500 loz.</u> Rate: Zgpm.	z⊊ ∙o 3 Sedimer	Water Color: <u></u>	silty		or: <i>{{CS}</i>
Time (2400 hr.) (gal.)	Did well de-wa	ater? No	If yes, Time	e: `			OBB
1427 6 6.23 882 21.9 1427 6 6.23 882 22.3 1430 12 6.24 859 70.7 1432 15 6.23 563 70.9 1437 21 6.21 559 71.4 1447 77 6.23 852 71.4 1447 77 6.23 852 71.4 1447 77 6.23 852 71.4 1447 77 6.23 852 71.4 1447 77 6.23 852 71.5 LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-3 3 x voa vial YES HCL LANCASTER TPH-G(8015)/BTEX+MTBE(8021) MW-3 7 x amber YES NP LANCASTER TPH-D			рН	-	(C/F)		-
1430	142	2 3 4				-	<u> </u>
1430					123		
1432			1.4	450 -	20.7		
1435			777		70.9		
1437 21 6.21 \$59 21.4 1440 24 6.27 \$5\$ 21.2 1445 30 6.70 \$59 21.5 LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW-3 3 x voa vial YES HCL LANCASTER TPH-G(8015)/BTEX+MTBE(8021) MW-3 2x amber YES NP LANCASTER TPH-D			10.16		21.3		
1440		<u> </u>			21.4		
1445 27 6.23 853 21.2 21.5 21				858	21.4		
LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 3 3 x voa vial YES HCL LANCASTER TPH-G(8015)/BTEX+MTBE(8021) MW- 3 7 x amber YES NP LANCASTER TPH-D	14 4			853	21.2		
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 3				854	21.5		
SAMPLE ID (#) CONTAINER REPRIG. PRESERV. TE LANCASTER TPH-G(8015)/BTEX+MTBE(8021) MW- 3			LA	BORATORY INFO	RMATION		
MW- 3 3 x voa vial YES HCL LANCASTER TPH-G(8015)/BTEX+MTBE(8021) MW- 3 2 x amber YES NP LANCASTER TPH-D	SAMPLE	D (#) CONTAINER	REFRIG.	PRESERV. TYPE			
MVP 3 2 xamber 1ES IVI	MW-						B1EX+M1BE(8021)
COMMENTS: Hand hailed 15 gallows, well teeps having sitt run	MW- 3	z x amber	YES	NP	LANCAST	K IPH-U	
COMMENTS: Have hailed 15 gallows, well teeps having sitt run					ļ		
COMMENTS: Have hailed 15 gallows, well teeps having sitt run			 				
The company of the co	COMMENT	S: Hand hair	Led 19	gallows, s	vell tee	as paving	g sett run
	uno a	M & pull					

ent/Facility #: Che	evronTexaco i	#206145	Job	Number: 38	6492	
	Center Stree			ent Date: 💋	24.03-02.	25.53
ty: Oa	kland, CA		Sai	mpler: $\underline{\mathcal{I}}$	M	
/ell ID _	MW- 4/	Date N	Monitored:	·24·03	Well Condition:	ak.
_	2 in. 8.73 ft. 15.4/ ft.		Volume Factor (VF)	•	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	1
_	1.100 ft. 2.13 xVF	.17	=10.36 ×10	ase volume) = Estil	mated Purge Volume:	44-30 gal.
 Purge Equipment:			ling Equipment:	_ [Time Started: Time Bailed:	(2400 hr
Disposable Bailer	, .	Dispo	sable Bailer		Depth to Product:	ft
Stainless Steel Bailer		•	ure Bailer		Depth to Water:	ess:
Stack Pump		Discre	ete Bailer		Hydrocarbon Thickn Visual Confirmation	
Suction Pump		Other	:		Alphai Columnianois	
Grundfos			·		Skimmer / Absorbar	
Other:						Skimmer: 98
Outel					Arnt Removed from Product Transferred	Well:98
					1 10000 Hallardiler	
Time (2400 hr.) 15 24 15 26 15 33 15 37 15 40 15 42 15 45 15 45	Volume (gal.) 3 4 7 12 15 18 21	pH 7.5/e 7.24 7.1/e 7.15 7.10	Conductivity (u mhos/cm) 5/7 53 4 53 5 53 9 54 1 525 527 523	Temperature (C/F) /8.0 -20.3 -22.9 -2/./ -20.9 -2.2 -23./ -24.3 -24.2 -22.6	gal. D.O. (mg/L)	ORP (mV)
		LA	BORATORY INFO	ORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATOR		NALYSES
MW- 4/	⊰ x voa vial	YES	HCL	LANCASTER		EX+MTBE(8021)
MW- 4/	Z x amber	YES	NP	LANCASTER	R TPH-D	
 				<u> </u>		<u> </u>
						
						
				<u> </u>		
	11 / /		Talla.	with in	Tamles D	tel leave
COMMENTS:	Hand Me	une /	1 gumerus	W-++C 40/		
before p	usque;					
	1 8				Dha.	Size:
Add/Replac	ced Lock:			Add/Replaced	riug:	_ Size:

	evronTexaco #	+206145		_	386492		
ite Address: 80	0 Center Stree		Ever	nt Date: 💪	02.24.6	<u> 13-02</u>	25.03
ity: Oa	akland, CA		Sam	pler:	DM.		
/ell ID	MW-5	Date Mo	onitored: oz.z	4.03	Well Co	ndition:	D.K.
	2 in. 19.04 ft. 19.35 ft.		Volume Factor (VF)	3/4°= 0.02 4°= 0.66	1°= 0.04 5°= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
epth to Water	7.02 ft.	. 71 _	Z09_x10	se volume) = E	stimated Pure	ge Volume:	Z/ _ gal
/ :	2.33xVF	<u>·/</u>	<u></u>	e volunta, —		rted:	(2400 hrs
urge Equipment:	•	Sampli	ng Equipment:	/	Time Bail		(2400 hr
Disposable Bailer	,	Disposa	able Bailer			Product:	ft
Stainless Steel Bailer		Pressu	re Bailer			Water: bon Thickne	
Stack Pump			e Bailer		- Visual Co	onfirmation/E	escription:
Suction Pump		Other.			Skimmer	/ Absorbant	Sock (circle one)
Grundfos					Amt Ren	noved from S	Skimmer ge
Other	<u> </u>				Amt Ren	noved from \	Well: ga
					Product	i ransierieū	to:
Purging Flow Rate Did well de-water			Description:	/olume:	g	al.	
Time (2400 hr.) 	Volume (gal.)	-1.1	Conductivity (umhos/cm) 457 440	Temperature (C/F) /S. Z /S. B		0.O. ng/L)	ORP (mV)
Time (2400 hr.) /2/8 /2 20	(gal.) <u>Z</u> (6	рН	(u mhos/cm)	(C/F) 18.Z 18.B 20.1			
Time (2400 hr.) /2/8 /2 20 /2 22	(gal.)	.58	(umhos/cm) 457 490	(CIF) 18.2 16.8 20.1 19.2			
Time (2400 hr.) /2/8 /2 20 /2 22 /7 24	(gal.) 2 6 4 6	.58 - .59 - .65 -	(umhos/cm) 457 440 503	(CIF) 18.2 18.8 20.1 19.2 19.2			
Time (2400 hr.) 2 8 12 20 12 22 7 24 12 26	(gal.) 2 6 4 6 4 10	.58 .59 65 63	(umhos/cm) 457 490 503 505 510	(CIF) 18.2 16.8 20.1 19.2			
Time (2400 hr.) 1218 1220 1222 1724 1226 1226	(gal.) 2	58 59 6.65 6.63 6.63	(umhos/cm) 457 490 503 505 507 505	(CIF) 18.2 18.8 20.1 19.2 19.2			
Time (2400 hr.) 1218 1220 1222 1724 1226 1226 1231	(gal.) 2 6 4 6 10 6 12 6 10 6 12 6	58 59 6.65 6.63 6.63	(umhos/cm) 457 490 503 505 507 505	(CIF) 18.2 18.8 20.1 19.2 19.2			
Time (2400 hr.) 2 8 12 20 12 22 17 24 12 26 12 25 12 31 12 35	(gal.) 2 6 4 6 10 6 12 6 12 6 14 6 14 6	58 59 1.65 1.65 1.62 1.62 1.67	(umhos/cm) 457 490 503 505 510 507	(CIF) 18.2 18.8 20.1 19.2 19.2			
Time (2400 hr.) 1218 1220 1222 1724 1226 1226 1231	(gal.) 2 6 4 6 10 6 12 6 12 6 14 6 14 6	58 59 6.65 6.63 6.63	(umhos/cm) 457 490 503 505 507 507 509	(CIF) 18.2 18.8 20.1 19.2 19.4 19.6 19.5 19.5			
Time (2400 hr.) 1218 1220 1222 1724 1226 1229 1231 1233	(gal.) 2	58 59 1.65 1.63 1.63 1.63 1.67 1.67 1.69 1.85	(umhos/cm) 457 490 503 505 510 507 505 509 504	(CIF) 18.8 20.1 19.2 19.4 19.6 19.5 19.9 20.4 19.7		ng/L)	(mV)
Time (2400 hr.) 1218 1220 1222 1724 1226 1226 1231 1233 1237	(gal.) 2	58 59 1.65 1.63 1.63 1.63 1.67 1.67 1.69 1.85	(umhos/cm) 457 490 503 505 510 507 505 509	(C/F) /5. Z /6. B Z0.1 /9. Z /9. 4 /9. 5 /9. 7 PRMATION LABORAT	ORY	AP	(mV)
Time (2400 hr.) 12/8 1220 1222 1724 1226 1226 1231 1233 1237 1240 SAMPLE ID	(gal.) 2	58 .59 .65 .63 .63 .63 .62 .63 .64 .67 .64 .69 .685	(umhos/cm) 457 490 503 505 510 507 505 509 504 512	(C/F) /8. Z /8. B 20.1 /9. Z /9. 2 /9. 5 /9. 5 /9. 7 PRMATION LABORAT LANCAS	ORY TER TPH	AN G(8015)/BTI	(mV)
Time (2400 hr.) 1218 1220 1222 1724 1226 1226 1231 1233 1237	(gal.) 2	58 .59 .65 .63 .63 .63 .63 .64 .67 .64 .67 .687 .685 .687 .685 .685 .685	(umhos/cm) 457 490 503 505 500 507 507 509 504 512 BORATORY INFO	(C/F) /5. Z /6. B Z0.1 /9. Z /9. 4 /9. 5 /9. 7 PRMATION LABORAT	ORY TER TPH	AN G(8015)/BTI	(mV)
Time (2400 hr.) /2/8 //// //// SAMPLE ID MW- 5	(gal.) 2	58 .59 .65 .63 .63 .63 .63 .64 .67 .64 .67 .687 .685 .687 .685 .685 .685	(umhos/cm) 457 490 503 505 500 507 505 509 504 512 BORATORY INFO PRESERV. TYPE HCL	(C/F) /8. Z /8. B 20.1 /9. Z /9. 2 /9. 5 /9. 5 /9. 7 PRMATION LABORAT LANCAS	ORY TER TPH	AN G(8015)/BTI	(mV)
Time (2400 hr.) /2/8 /2/8 /220 /222 /724 /224 /226 /23/ /233 /237 /240 SAMPLE ID MW-5	(gal.) 2	58 .59 .65 .63 .63 .63 .63 .63 .63 .63 .63 .63 .63	(umhos/cm) 457 490 503 505 510 507 505 509 504 512 BORATORY INFO PRESERV. TYPE HCL NP	(C/F) /8. Z /8. B ZØ.1 /9. 2 /9. 2 /9. 4 /9. 5 /9. 7 RMATION LANCAS LANCAS	ORY TER TPH-	AP G(8015)/BTI	(mV)

	vronTexaco#			Number: <u>38</u>		3
te Address: 800	Center Street	·	Ever		1.24.03.02	25.03
ty: Oak	land, CA		Sam	ipler: <u>Di</u>	<u>u</u>	
. <u>Juk</u>	10110, 071					
/ell ID	MW- <i>6</i>	Date M	onitored: <u> タマ・</u> Z	4.02	Well Condition:	: OK
/ell Diameter	2 in.		·			
	.45 ft.		Volume	Q Q	1"= 0.04	
· · · · · · · · · · · · · · · · · · ·			Factor (VF)	4°= 0.66	5"= 1.02 6"= 1.	.50 12 0.00
	12.50 ft.					
epth to Water	3.79 ft.	12	1. 65 xa (ca		materi Purne Volun	ne:///2/630gal.
<u>_q</u>	.71xvF	<u> </u>	/. // S X# (Ca	se volume) – Lau	Time Started:	
orge Equipment:		Sampli	ing Equipment:		Time Balled:	(2400 hr
• , ,	•	-	able Bailer		Depth to Product:	ft
Disposable Bailer Stainless Steel Bailer		•	re Bailer		Depth to Water:_ Hydrocarbon Thic	-knoss
Stack Pump		Discret	te Bailer		Visual Confirmation	MI 1033
Suction Pump		Other:				
Grundfos					Skimmer / Absort	bant Sock (circle one) om Skimmer: 98
Other:					Amt Removed fro	om Well: 9
						red to:
Sample Time/Date: Purging Flow Rate: Did well de-water?	て gpm.	Sedimen	er Conditions: // Water Color: // at Description:	/ex/ /olume:		for: <u>(W) </u>
	7 gpm. NO If Volume (gal.) 3 3 4 4 12 4 15 4 24 4 77	Sediment yes, Time pH 7.07	it Description:			ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) 1/03 1/06 1/13 1/15 1/15 1/15 1/120 1/126	7 gpm. NO If Volume (gal.) 3 4 4 15 18 24 27	Sediment yes, Time yes, Time yes, Time 107 86 7 7 7 86 7 7 8 6 7 7 8 6 7 7 8 7 8	Conductivity (umhos/cm) 283 289 289 280 290 291 298 294 293 499 304	Volume:	gal.	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) //03 //06 //09 ///3 ///5 ///5 ///5 ///20 ///25	7 gpm. NO If Volume (gal.) 3 4 4 15 15 24 27 30	Sediment yes, Time yes, Time yes, Time 107 86 7 7 7 86 7 7 8 6 7 7 8 6 7 7 8 7 8	Conductivity (umhos/cm) 283 289 289 290 291 298 294 293 499	Volume:	gal. D.O. (mg/L)	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) //03 //06 //09 ///3 ///3 ///5 ///5 ///5 ///20 //25 SAMPLE ID	7 gpm. NO If Volume (gal.) 3 4 4 15 18 24 27 4	Sediment yes, Time pH 107 86	Conductivity (umhos/cm) 283 289 289 290 291 298 299 304 BORATORY INFO	Volume:	gal. D.O. (mg/L) RY R TPH-G(8015)	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) //03 //06 //09 ///3 ///5 ///5 ///5 ///20 ///25	7 gpm. NO If Volume (gal.) 3	Sedimen yes, Time PH 1.07 86	Conductivity (umhos/cm) 783 789 789 791 791 794 794 794 799 304 BORATORY INFO	Volume: Temperature (C/F) / 9.4 70.5 71.5 71.0 71.3 71.7 71.7 71.7 71.7 71.7 71.7 71.7	gal. D.O. (mg/L) RY R TPH-G(8015)	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) //03 //06 //09 ///3 ///3 ///5 ///5 ///20 ///25 SAMPLE ID MW- 4	7 gpm. NO If Volume (gal.) 3 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sediment yes, Time yes, Ti	Conductivity (umhos/cm) 283 289 289 286 290 291 298 298 299 306 BORATORY INFO	Volume:	gal. D.O. (mg/L) RY R TPH-G(8015)	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) //03 //06 //09 ///3 ///3 ///5 ///5 ///20 ///25 SAMPLE ID MW- 4	7 gpm. NO If Volume (gal.) 3 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sediment yes, Time yes, Ti	Conductivity (umhos/cm) 283 289 289 286 290 291 298 298 299 306 BORATORY INFO	Volume:	gal. D.O. (mg/L) RY R TPH-G(8015)	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) 1103 1104 1109 1113 1115 1115 11120 1125 1126 1125 SAMPLE ID MW-4 MW-4	7 gpm. N/O If Volume (gal.) 3	Sedimentyes, Times pH 107 SLe 74 73 2.71 LeZ 2.43 LA REFRIG. YES YES	Conductivity (umhos/cm) 783 789 786 791 794 794 799 799 80RATORY INFO	Volume: Temperature (C/F) / 9.4 ZO.5 Z1.5 Z1.5 Z1.2 Z1.Z Z1.Z Z1.Z Z1.Z Z1.Z DRMATION LABORATO LANCASTE LANCASTE	gal. D.O. (mg/L) RY R TPH-G(8015) R TPH-D	ORP (mV)
Purging Flow Rate: Did well de-water? Time (2400 hr.) 1103 1104 1109 1113 1115 1115 11120 1125 1126 1125 SAMPLE ID MW-4 MW-4	7 gpm. NO If Volume (gal.) 3 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sedimentyes, Times pH 107 SLe 74 73 2.71 LeZ 2.43 LA REFRIG. YES YES	Conductivity (umhos/cm) 783 789 786 791 794 794 799 799 80RATORY INFO	Volume: Temperature (C/F) / 9.4 ZO.5 Z1.5 Z1.5 Z1.2 Z1.Z Z1.Z Z1.Z Z1.Z Z1.Z DRMATION LABORATO LANCASTE LANCASTE	gal. D.O. (mg/L) RY R TPH-G(8015) R TPH-D	ORP (mV)

e Address:	800 Center Stree	t	Eve	ent Date: <u>@2</u>	.24.03.02	2.25.03
y:	Oakland, CA		Sar		u.	
- 					Vell Condition:	nle
ell ID	MW- 7	Date M	Ionitored: 22.	24.03	Yell Condition.	<u> </u>
ell Diameter	in.			0.44-0.03 4	= 0.04 2°= 0.17	3*= 0.38
itial Total Dept	h <u>18.10 ft.</u>		Volume Factor (VF)		= 1.02 6°= 1.50	
nal Total Depti	h 1975 ft. 19.	35				
epth to Water			14- 4/0			+030
•	11.32 xVF_	17 =	192 x2(cs	se volume) = Estim	ated Purge Volume:	14/2 gal.
					Time Started:	(2400
urge Equipment:	•	•	ling Equipment:		Time Bailed: Depth to Product:	(2400
isposable Bailer	/	•	sable Bailer		Depth to Water:	
tainless Steel Bail	er		ure Bailer		Hydrocarbon Thickn	ess:
tack Pump			te Bailer		Visual Confirmation	Description:
Suction Pump		Otner			Skimmer / Absorbar	nt Sock (circle one)
Grundfos	<u> </u>				Amt Removed from	Skimmer:
Other:				I	Amt Removed from	
					Product Transferred	10:
Start Time (our	ge): <u>/330</u>	Weath	er Conditions: <u>"</u>	Sunge		
	Date: / 1/05 1/02:2	£.03	Water Color:	laul Brow	Odor Odor	: Wo
	Rate: Z gpm.		nt Description:			
Zuraina Flow i						
				Volume:	gal.	
					 -	
		f yes, Time	Conductivity	Volume:	D.O.	ORP (m)()
Did well de-wa Time (2400 hr.	volume (gal.)		Conductivity (u mhos/cm)	Volume: Temperature (C/F)	 -	ORP (mV)
Did well de-wa	volume (gal.)	pH	Conductivity (umhos/cm)	Volume: Temperature (C/F)	D.O.	
Did well de-wa Time (2400 hr.	Volume (gal.) 5 6 7	pH	Conductivity (umhos/cm) 348 33/	Volume: Temperature (C/F) / 7.8 / 8.5	D.O.	
Time (2400 hr. / 337	volume (gal.) 5 6 6 7 6 7 7 7 7 7 7 7 7 7	pH 7.10 -	Conductivity (umhos/cm) 348 33/	Volume: Temperature (C/F) / 7.8 / 8.5 ZU. Z	D.O.	
Time (2400 hr. / 33	volume (gal.) 7 6 7 6 7 7 7 7 7 7 7 7 7	pH 7.10 1.97 1.96	Conductivity (umhos/cm) 3 48 3 3/ 3 3 2	Volume: Temperature (C/F) / 7.8/ / 8.5 Zu. Z Zo. /	D.O.	
Time (2400 hr. / 33 / / 34 / / 34 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / / 3 4 / / / /	Volume (gal.) 7 6 7 6 7 7 7 7 7 7 7 7 7	pH 7.10 -	Conductivity (umhos/cm) 348 33/ 332 333 337	Volume: Temperature (C/F) / 7.8 / 8.5	D.O. (mg/L)	
Time (2400 hr. / 337	Volume (gal.) 3	pH 7.10 1.97 1.96	Conductivity (umhos/cm) 3 48 3 3/ 3 3 2	Volume: Temperature (C/F) / 7.8/ / 8.5/ ZD Z ZO./ / 19.4/ ZO./	D.O. (mg/L)	
Time (2400 hr. / 33 / / 34 / / 34 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / 3 4 / / / 3 4 / / / /	Volume (gal.) 7 6 7 6 7 6 7 7 7 7 7 7 7	pH 7.10 1.97 1.96 1.94	Conductivity (umhos/cm) 348 33/ 332 333 337	Volume: Temperature (C/F) / 7.8/ / 8.5 ZO. Z ZO. / / 19.4/ ZO. / ZO. 4	D.O. (mg/L)	
Time (2400 hr. / 33 / / 34 / / 34 / / 34 / / 34 / / 35	Volume (gal.) 7 6 7 6 7 6 7 6 7 7 7 7 7	pH 7.10 97 96 -94 -93	Conductivity (umhos/cm) 348 33/ 332 337 337	Volume: Temperature (C/F) 17.8 18.5 20.2 20.1 19.4 20.1 20.4 20.5	D.O. (mg/L)	
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35	Volume (gal.) 7 6 7 6 7 6 7 6 7 7 7 7 7	pH 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	Conductivity (umhos/cm) 348 33/ 332 337 337	Volume: Temperature (C/F) / 7.8/ / 8.5 ZO. Z ZO. / / 19.4/ ZO. / ZO. 4	D.O. (mg/L)	
Time (2400 hr. / 33 / 34 / 34 / 34 / 34 / 34 / 35	Volume (gal.) 7 6 7 6 7 6 7 6 7 7 7 7 7	pH 7.10 .97 .96 .94 -93	Conductivity (umhos/cm) 3 48 3 3/ 3 32 3 3 3 3 3 7 3 3 2 3 3 4 3 3 6	Volume: Temperature (C/F) 17.8 18.5 20.2 20.1 19.4 20.1 20.4 20.5	D.O. (mg/L)	
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 7 6 7 6 7 6 7 7 7 7 7 7 7	pH 7.10 .97 .96 .94 .93 .92 .92	Conductivity (umhos/cm) 3 48 3 3/ 3 32 3 3 7 3 3 7 3 3 2 3 3 4 3 3 6 3 3 4	Volume: Temperature (C/F) / 7.8 / 8.5 ZD. Z ZO. / / 19. 4 ZO. / ZO. 4 ZO. 5 ZD. 5	D.O. (mg/L)	
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 7 6 7 6 7 6 7 6 7 7 7 7 7	pH 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	Conductivity (umhos/cm) 3 48 3 3/ 3 32 3 3 3 3 3 7 3 3 2 3 3 4 3 3 6 3 3 7 3 3 7	Volume: Temperature (C/F) / 7.8 / 8.5 20.2 20.1 / 9.4 20.1 20.4 20.4 20.5 20.5 20.7	D.O. (mg/L)	
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 3 4 6 7 6 7 6 7 7 7 7 7 7 7 7	pH 7.10 .97 .96 .94 .93 .92 .92 .93 .93	Conductivity (umhos/cm) 3 48 3 3/ 3 32 3 37 3 37 3 37 3 39 3 39 3 39 3 39 3 39	Volume: Temperature (C/F) / 7.8 / 8.5	D.O. (mg/L.)	
Time (2400 hr. / 33) / 34 / 34 / 34 / 35 / 35 / 35 / 35 / 35	Volume (gal.) 7 6 7 6 7 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8	pH 7.10 .97 .94 .92 .92 .93 .92 .93 .93 .93 .93	Conductivity (umhos/cm) 3 48 3 3/ 3 32 3 3 3 3 3 7 3 3 2 3 3 4 3 3 6 3 3 7 3 3 7	Volume: Temperature (C/F) / 7.8 / 8.5 20.2 20.1 / 9.4 20.1 20.4 20.5 20.3 20.7	D.O. (mg/L)	(mV)
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 5 7 6 9 12 15 15 6 7 15 6 7 18 7 18 8 7 18 8 7 18 8 7 18 8 8 7 8 8 8 8 8 8 8 8 8 8	pH 7.10 .97 .96 .94 .93 .92 .92 .93 .93	Conductivity (umhos/cm) 3 48 3 3/ 3 3 7 3 3 7 3 3 7 3 3 7 3 3 9 3 3 4 3 3 4 3 3 4 3 3 6 3 3 7 BORATORY INFO	Temperature (C/F) /7.8 /8.5 ZO.2 ZO.1 /9.4 ZO.4 ZO.4 ZO.5 ZO.7 DRMATION LABORATORY	D.O. (mg/L)	(mV)
Time (2400 hr. / 33) / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 5 7 6 9 12 15 15 6 7 15 6 7 18 7 18 8 7 18 8 7 18 8 7 18 8 8 7 8 8 8 8 8 8 8 8 8 8	pH 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	Conductivity (umhos/cm) 3 48 3 3/ 3 3 7 3 3 7 3 3 7 3 3 7 3 3 9 3 3 4 3 3 4 3 3 4 3 3 4 3 3 9 3 9 1 BORATORY INFO PRESERV. TYPE HCL	Temperature (C/F) / 7.8 / 8.5 ZO.2 ZO.1 / 9.4 ZO.4 ZO.4 ZO.5 ZO.7 CRMATION LABORATORY LANCASTER	D.O. (mg/L)	(mV)
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 5 7 6 9 12 15 15 6 7 15 6 7 18 7 18 8 7 18 8 7 18 8 7 18 8 8 7 8 8 8 8 8 8 8 8 8 8	pH 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10	Conductivity (umhos/cm) 348 33/ 33/ 337 333 337 334 334 334 334 334 331 BORATORY INFO PRESERV. TYPE HCL NP	Temperature (C/F) / 7.8 / 8.5 ZO.2 ZO.1 / 9.4 ZO.4 ZO.4 ZO.5 ZO.7 CRMATION LABORATORY LANCASTER	D.O. (mg/L)	(mV)
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 7 6 7 6 7 6 7 7 7 7 7 7 7	pH 7.10 .97 .94 .92 .92 .92 .93 .92 .93 .92 .93 .92 .93 .92 .93 .92 .93 .92	Conductivity (umhos/cm) 3 48 3 3/ 3 3 7 3 3 3 3 3 7 3 3 3 7 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 1 BORATORY INFO PRESERV. TYPE HCL NP	Temperature (C/F) / 7.8 / 8.5 ZO.2 ZO./ / 9.4 ZO.4 ZO.4 ZO.5 ZO.7 DRMATION LABORATORY LANCASTER	D.O. (mg/L.)	(mV) NALYSES EX+MTBE(8021)
Time (2400 hr. / 33 / 34 / 34 / 34 / 35 / 35 / 35 / 35	Volume (gal.) 7 6 7 6 7 6 7 7 7 7 7 7 7	pH 7.10 .97 .94 .92 .92 .92 .93 .92 .93 .92 .93 .92 .93 .92 .93 .92 .93 .92	Conductivity (umhos/cm) 3 48 3 3/ 3 3 7 3 3 3 3 3 7 3 3 3 7 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 1 BORATORY INFO PRESERV. TYPE HCL NP	Temperature (C/F) / 7.8 / 8.5 ZO.2 ZO./ / 9.4 ZO.4 ZO.4 ZO.5 ZO.7 DRMATION LABORATORY LANCASTER	D.O. (mg/L.)	(mV) NALYSES EX+MTBE(8021)
Time (2400 hr. / 33 / / 34 / / 34 / / 34 / / 35 / 35	Volume (gal.) 5 7 6 7 6 7 7 7 7 7 7 7 7 7	pH 7.10 .97 .94 .92 .92 .92 .93 .92 .93 .92 .93 .92 .93 .92 .93 .92 .93 .92	Conductivity (umhos/cm) 3 48 3 3/ 3 3 7 3 3 3 3 3 7 3 3 3 7 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 1 BORATORY INFO PRESERV. TYPE HCL NP	Temperature (C/F) / 7.8 / 8.5 ZO.2 ZO./ / 9.4 ZO.4 ZO.4 ZO.5 ZO.7 DRMATION LABORATORY LANCASTER	D.O. (mg/L.)	(mV) NALYSES EX+MTBE(8021)

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

ite Address: 800 Center Street			Event Date:	02.24.03					
ty:		Pakland, CA			Sampler:	PM			
/ell ID	MW	-8	Date 1	Monitored: 6	2.24.03	_ We	ell Condition:	ok.	
ell Diameter	2			Volume	3/4"= 0.02	2 1*=1	0.04 2*= 0.17	3*= 0.38	
itial Total Dept		2 <u>9 ft.</u>		Factor (VF			1.02 6*= 1.50	12"= 5.80	
inal Total Depti epth to Water	7.8	<u> </u>	_	<u> </u>	10				
	12.2	xVF	.17_	= <u>Z.07</u> x	(case volume) =		d Purge Volume:		00 L
urge Equipment:			Samp	oling Equipmen	t:		ne Started: ne Bailed:	· · · · · · · · · · · · · · · · · · ·	00 hrs 00 hr
isposable Bailer		•	Dispo	sable Bailer			pth to Product:		_
itainless Steel Ball	er		•	sure Bail e r			pth to Water drocarbon Thickn		! •
Stack Pump				ete Bailer			sual Confirmation		
Suction Pump Grundfos			Otne	r				nt Sock (circle on	
Other:						An	nt Removed from	Skimmer: Well:	ga ga
							nt Removed mom oduct Transferred		
•									
	Rate:	2 gpm.	Sedime	e: 	n: <i>Wo sila</i> Volume: _		gal. g.O.	ORP	 .
Time (2400 hr 095) 095 095 100	Rate:	2 gpm. 1/0 1 polume (gai.) 2 1 4 7 8 7 8 7	Sedime f yes, Tim	nt Description e: Conductivity (umhos/cm) 44// 435 42/4 4/8	Temperatur (C/F) 19.4 70.6 -21.9 -22.6		gal. D.O. (mg/L)	ORP (mV)	— . — — — — — — — — — — — — — — — — — —
Purging Flow I Did well de-wa Time (2400 hr 0 9 5 0 9 5 0 9 5 100	Rate:	2 gpm. //o 1 polume (gal.) // // // // // // // // // // // // // // //	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08	nt Description e: Conductivity (umhos/cm) 4/4/2 4/3/5 4/2/4 4/8	Temperatur (C/F) 19.4 70.6 -21.9 -21.7	re -	D.O.		
Purging Flow I Did well de-wa Time (2400 hr 095 095 095 100 100	Rate:	2 gpm. 1/0 1 blume (gal.) 2 7 4 7 8 7 1 2 7 1 2 7 1 4 7 1 7 1 7 1 7 1 7 1 7 1 7	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08 7.08	nt Description e: Conductivity (umhos/cm) 44/ 435 42/ 424 4/8 4/8	Temperatur (C/F) 19.4 70.6 21.9 21.7 22.6 23.6	re -	D.O.		
Purging Flow I Did well de-wa Time (2400 hr 095 095 100 100 100	Rate:	2 gpm. 1/0 1 polume (gal.) 4 7 8 7 1/2 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/4 7 1/6 7	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08 7.08 7.08 7.08 7.08 7.08	nt Description e: Conductivity (umhos/cm) 44/, 435 42/e 424 4/8 4/8 4/25 4/8	Temperatur (C/F) 19.4 70.6 21.9 22.6 22.8 23.6 22.0	re -	D.O.		——————————————————————————————————————
Purging Flow I Did well de-wa Time (2400 hr 095 095 095 100	Rate:	2 gpm. 1/0 1 plume (gai.) 2 // // // 8 // // // 1/2 // // // // // // // // // // // // //	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08 7.08	nt Description e: Conductivity (umhos/cm) 44/ 435 42/ 424 4/8 4/8	Temperatur (C/F) 19.4 70.6 21.9 21.7 22.6 23.6	re -	D.O.		
Purging Flow I Did well de-wa Time (2400 hr 0 9 5 0 9 5 100 100 100	Rate:	2 gpm. 1/0 1 blume (gal.) 2 7 4 7 8 7 1 2 7 1 2 7 1 4 7	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	nt Description e: Conductivity (umhos/cm) 44/4 435 42/4 4/8 4/8 4/8 4/8 4/8 4/25 4/8 4/22	Temperatur (C/F) 19.4 70.6 21.9 21.7 22.6 22.0 23.0 22.5	re	D.O.		
Purging Flow I Did well de-wa Time (2400 hr 095 095 100 100 100 100	Rate:	2 gpm. 1/0 plume (gal.) 4 6 7 7 7 7 7 7 7	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	nt Description e: Conductivity (umhos/cm) 44/4 435 42/4 4/8 4/8 4/8 4/8 4/8 4/25 4/8 4/22	Temperatur (C/F) 19.4 70.6 21.9 21.7 22.6 23.6 23.0 23.0 22.5	re	D.O. (mg/L)	(mV)	
Purging Flow I Did well de-wa Time (2400 hr 095 095 100 100 100 100 100	Rate:	2 gpm. 1/0 1 blume (gal.) 2 7 4 7 8 7 1 2 7 1 2 7 1 4 7	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.08 7.08 7.05 7.03 7.02	nt Description e: Conductivity (umhos/cm) 44/2 435 42/4 418 418 418 425 418 422 424	Temperatur (C/F) /9.4 70.6 71.7 72.6 72.8 73.6 23.0 72.5 INFORMATION PE LABORA LANCAS	I STORY	D.O. (mg/L)	(mV)	
Purging Flow II Did well de-wa Time (2400 hr 095 095 100 100 100 100	Rate:	2 gpm. //o	Sedime f yes, Tim pH 7.43 7.70 7.12 7.08 7.08 7.08 7.05 7.05 7.05 7.05 7.05 7.05 7.05 7.05	nt Description e: Conductivity (umhos/cm) 4// 4// 4// 4// 4// 4// 4// 4// 4// 4/	Temperatur (C/F) 19.4 70.6 71.7 72.6 72.8 73.6 23.0 72.5	I STORY	D.O. (mg/L)	(mV)	
Purging Flow I Did well de-wa Time (2400 hr 095 095 100 100 100 100 100 100 100 100 100 10	Rate:	gpm. //o plume (gal.) // // // // // // // // //	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08	Conductivity (umhos/cm) 44/ 425 424 418 418 428 418 428 418 428 HCL	Temperatur (C/F) /9.4 70.6 71.7 72.6 72.8 73.6 23.0 72.5 INFORMATION PE LABORA LANCAS	I STORY	D.O. (mg/L)	(mV)	
Purging Flow I Did well de-wa Time (2400 hr 095 095 100 100 100 100 100 100 100 100 100 10	Rate:	gpm. //o plume (gal.) // // // // // // // // //	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08	Conductivity (umhos/cm) 44/ 425 424 418 418 428 418 428 418 428 HCL	Temperatur (C/F) /9.4 70.6 71.7 72.6 72.8 73.6 23.0 72.5 INFORMATION PE LABORA LANCAS	I STORY	D.O. (mg/L)	(mV)	
Purging Flow I Did well de-wa Time (2400 hr 095 095 100 100 100 100 100 100 100 100 100 10	Rate:	2 gpm. //o lolume (gal.) 2 // 4 // 8 // // //	Sedime f yes, Tim pH 7.43 7.20 7.12 7.08 7.09 7.09 7.09 7.05 7.03 7.02 REFRIG. YES YES	Conductivity (umhos/cm) 44/ 425 424 418 418 428 418 428 418 428 HCL	Temperatur (C/F) 19.4 70.6 21.9 21.7 22.6 23.6 23.0 22.5 INFORMATION YPE LABORA LANCA:	I STORY	D.O. (mg/L)	(mV)	

Virgil Chavez Land Surveying

312 Georgia Street, Suite 225 Vallejo, California 94590-5907 (707) 553-2476 • Fax (707) 553-8698 February 21, 2003 Project No.: 2119-01

-- 9 2 a 2003

Getterfyan Inc. General Contactors

Andrew Smith Gettler-Ryan, Inc. 6747 Sierra Court, Suite J Dublin, CA 94568-2611

Subject:

Monitoring Well Survey

Former Chevron Service Station

800 Center Street Oakland, CA

Dear Andrew:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was completed on February 18, 2003. The benchmark for this survey was a City of Oakland Benchmark #25-H monument disk in well casting in sidewalk at the northwest corner of 7th and Center. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83). Benchmark Elevation = 10.784 feet (NGVD 29).

<u>Latitude</u>	Longitude	Northing	Easting	Elev.	
				15.92	RIM MW-1A
37.8065177	-122.2943676	2121102.82	6043307.79	15.49	TOC MW-1A

No. 6323

Eug 12-3)-06

Sincerely,

Virgil D. Chavez, PLS 6323



ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310

> San Ramon CA 94583 925-842-8582

> > Prepared by:

GETTLEK-KYAN INC.

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 842836. Samples arrived at the laboratory on Thursday, February 27, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-03022425	NA NA	Water	4002202
MW-1A-W-030224	Grab	Water	4002203
MW-2-W-030224	Grab	Water	4002204
MW-3-W-030225	Grab	Water	4002205
MW-4-W-030224	Grab	Water	4002206
MW-5-W-030225	Grab	Water	4002207
MW-6-W-030225	Grab	Water	4002208
MW-7-W-030225	Grab	Water	4002209
MW-8-W-030225	Grab	Water	4002210

1 COPY TO

Cambria C/O Gettler- Ryan

Attn: Deanna L. Harding



Analysis Report



Questions? Contact your Client Services Representative Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

Elizabeth A. Smith

Senior Chemist

Analysis Report



Page 1 of 1

4002202 Lancaster Laboratories Sample No.

Collected: 02/24/2003 00:00 through 02/25/2003 00:00

Submitted: 02/27/2003 09:20 Reported: 03/12/2003 at 17:20

Discard: 04/12/2003

QA-T-03022425

Water

Account Number: 10904

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 206145 Job# 386492

800 Center St-Oakland

T0600102230 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Unita	Dilution Factor
01729	TPH-GRO - Waters					•
01730	TPH-GRO - Waters The reported concentration of TI gasoline constituents eluting pr start time.	n.a. PH-GRO does not rior to the C6	N.D. include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. N.D. N.D.	0.50 0.50 0.50 1.5 2.5	ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1

GRD

		Laboratory	Chro	nicle		
CAT No.	Analysis Name TPH-GRO - Waters	Method N. CA LUFT Gasoline	Trial#	Analysis Date and Time 03/01/2003 03:51	Analyst Jamie A Lutz	Dilution Factor 1
01729 02159 01146	BTEX, MTBE GC VOA Water Prep	Method SW-846 8021B SW-846 5030B	1 1	03/01/2003 03:51 03/01/2003 03:51	Jamie A Lutz Jamie A Lutz	1 n.a.



4002203 Lancaster Laboratories Sample No. WW

Collected: 02/24/2003 14:40

Account Number: 10904

Submitted: 02/27/2003 09:20

Reported: 03/12/2003 at 17:20

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 04/12/2003

MW-1A-W-030224

Water Grab

San Ramon CA 94583

As Received

Facility# 206145 Job# 386492

800 Center St-Oakland

T0600102230 MW-1A

CSO-1

05553 TPH Acco Rang to t hyd:	27020 11000	heak area COMD	STISON OF CHE 60	mbre becream	Units ug/1	Factor
Acco Rang to t hydr	cording to the California LUFT age Organics was performed by that of our #2 fuel oil referd drocarbons).	Protocol, the	quantitation fo	250. or Diesel ample pattern	ug/l	10
Rang to t hyd:	uge Organics was performed by posterior that of our #2 fuel oil reference of the processions.	heak area COMD	STISON OF CHE 60	mbre becream		
arre TDU	H-GRO - Waters					
01/29 IPM						
01730 TPH	H-GRO - Waters	n.a.	5,100.	50.	ug/l	1
The	e reported concentration of TP soline constituents eluting pr art time.	H-GRO does not ior to the C6	include MTBE on (n-hexane) TPH-0	r other GRO range		
02159 BTE	EX, MTBE					
02161 Ber	nzene	71-43-2	92.	0.50	ug/l	1
	luene	108-88-3	340.	0.50	ug/l	1
*****	hylbenzene	100-41-4	66.	0.50	ug/l	1
	otal Xylenes	1330-20-7	480.	1.5	ug/l	1
02172 Met	thyl tert-Butyl Ether	1634-04-4	N.D.	10.	ug/l	1
Due rej pr	the to the presence of an intereporting limit was not attaine resence or concentration of the resence of this interferent.	d for MTBE. T	'he			

GRD

Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.

		Laboratory Chronicle Analysis					
CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B,	Trial# 2	Date and Time 03/06/2003 07:52	Analyst Tracy A Cole	Factor 10	
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline Method	1	03/01/2003 00:36	Jamie A Lutz	1	
02159	BTEX, MTBE GC VOA Water Prep	SW-846 8021B SW-846 5030B	1	03/01/2003 00:36 03/01/2003 00:36	Jamie A Lutz Jamie A Lutz	1 n.a.	



Analysis Report



Page 2 of 2

4002203 Lancaster Laboratories Sample No.

Collected: 02/24/2003 14:40

by DM

Account Number: 10904

Submitted: 02/27/2003 09:20

Reported: 03/12/2003 at 17:20

Discard: 04/12/2003 MW-1A-W-030224

Grab

Water

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 206145 Job# 386492

800 Center St-Oakland

T0600102230 MW-1A

GRD

CSO-1

Extraction - DRO (Waters) 07003

TPH by CA LUFT-DRO/8015B, mod

03/03/2003 09:30

ChevronTexaco

Aubri L Peters



Lancaster Laboratories Sample No. WW 4002204

Collected: 02/24/2003 13:20 by DM

Account Number: 10904

Submitted: 02/27/2003 09:20

Reported: 03/12/2003 at 17:20

ChevronTexaco 6001 Bollinger Canyon Rd L4310

Discard: 04/12/2003

800 Center St-Oakland

MW-2-W-030224

Grab Water

San Ramon CA 94583

Facility# 206145 Job# 386492

T0600102230 MW-2

CSO-2

CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons). Site-specific MS/MSD samples wer was performed to demonstrate pre-	peak area comp ence standard e not submitte	between C10 and ded for the projec	C28 normal	Units ug/l	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of Tigasoline constituents eluting pastart time.	n.a. PH-GRO does no rior to the C6	N.D. t include MTBE or (n-hexane) TPH-G	50. cother GRO range	ug/l	1
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	- · · · · · · · · · · · · · · · · · · ·	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 not submitted recision and a	N.D. N.D. N.D. N.D. N.D. for the project.	0.50 0.50 0.50 1.5 2.5 A LCS/LCSD h level.	ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1

GRD

		Laboratory Chronicle Analysis				Dilution	
CAT No.	Analysis Name	Method	Trial#	Date and Time 03/06/2003 15:46	Analys t Tracy A Cole	Factor 1	
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified N. CA LUFT Gasoline	1	03/04/2003 22:24	Melissa D Mann	1	
01729 02159	TPH-GRO - Waters BTEX, MTBE	Method SW-846 8021B	1	03/04/2003 22:24	Melissa D Mann	1	
02139 01146 07003	GC VOA Water Prep Extraction - DRO (Waters)	SW-846 5030B TPH by CA LUFT- DRO/8015B, mod	1	03/04/2003 22:24 03/03/2003 09:30	Melissa D Mann Aubri L Peters	n.a. 1	



Lancaster Laboratories Sample No. 4002205

Collected: 02/25/2003 15:00

by DM

Account Number: 10904

ChevronTexaco

Submitted: 02/27/2003 09:20

Reported: 03/12/2003 at 17:20

Discard: 04/12/2003

MW-3-W-030225

Grab

Water

San Ramon CA 94583

No Pecaived

6001 Bollinger Canyon Rd L4310

Facility# 206145 Job# 386492 T0600102230 MW-3

800 Center St-Oakland

GRD

CSO-3

			As Received		
		As Received	Method		Dilution
Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
n a markermed by	Deak area com	narisom of the s	520. or Diesel ample pattern	ug/1	20
TPH-GRO - Waters					
TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time.	n.a. PH-GRO does no rior to the Ce	52,000. ot include MTBE control (n-hexane) TPH-	2,500. or other GRO range	ug/l	50
BTEX, MTBE					
Methyl tert-Butyl Ether The reporting limits were raise	1634-04-4 ed because sam	9,600. 4,800. 2,900. 4,100. N.D. ple dilution was range of the sys	25. 25. 25. 75. 130. necessary to	ug/1 ug/1 ug/1 ug/1 ug/1	50 50 50 50 50
	TPH - DRO CA LUFT (Waters) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons). TPH-GRO - Waters TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time. BTEX, MTBE Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether The reporting limits were raise	TPH - DRO CA LUFT (Waters) n.a. According to the California LUFT Protocol, the Range Organics was performed by peak area come to that of our #2 fuel oil reference standard hydrocarbons). TPH-GRO - Waters TPH-GRO - Waters The reported concentration of TPH-GRO does not gasoline constituents eluting prior to the Constant time. BTEX, MTBE Benzene 71-43-2 Toluene 108-88-3 Ethylbenzene 100-41-4 Total Xylenes 1330-20-7 Methyl tert-Butyl Ether 1634-04-4 The reporting limits were raised because same	Analysis Name CAS Number Result TPH - DRO CA LUFT (Waters) According to the California LUFT Protocol, the quantitation of Range Organics was performed by peak area comparison of the sto that of our #2 fuel oil reference standard (between C10 an hydrocarbons). TPH-GRO - Waters TPH-GRO - Waters TPH-GRO - Waters The reported concentration of TPH-GRO does not include MTBE organoline constituents eluting prior to the C6 (n-hexane) TPH-start time. BTEX, MTBE Benzene 71-43-2 9,600. Toluene 108-88-3 4,800. Ethylbenzene 100-41-4 2,900. Total Xylenes Methyl tert-Butyl Ether 1634-04-4 N.D. The reporting limits were raised because sample dilution was	Analysis Name CAS Number Result Detection Limit TPH - DRO CA LUFT (Waters) According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between Cl0 and C28 normal hydrocarbons). TPH-GRO - Waters TPH-GRO - Waters TPH-GRO concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Benzene 71-43-2 9,600. 25. Toluene 108-88-3 4,800. 25. Ethylbenzene 100-41-4 2,900. 25. Total Xylenes 1330-20-7 4,100. 75.	As Received Method Result Detection Units Limit TPH - DRO CA LUFT (Waters) n.a. 4,500. 520. ug/l According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between Cl0 and C28 normal hydrocarbons). TPH-GRO - Waters TPH-GRO - Waters The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. BTEX, MTBE Benzene 71-43-2 9,600. 25. ug/l Toluene 108-88-3 4,800. 25. ug/l Ethylbenzene 100-41-4 2,900. 25. ug/l Total Xylenes 1330-20-7 4,100. 75. ug/l Methyl tert-Butyl Ether 1634-04-4 N.D. 130. ug/l The reporting limits were raised because sample dilution was necessary to

	Laboratory Chronicle Analysis						
CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B,	Trial# 2	Date and Time 03/06/2003 15:23	Analyst Tracy A Cole	Pactor 20	
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline Method	1	03/01/2003 00:04	Jamie A Lutz	50	
02159 01146 07003	ETEX, MTBE GC VOA Water Prep Extraction - DRO (Waters)	SW-846 8021B SW-846 5030B TPH by CA LUFT- DRO/8015B, mod	1 1 1	03/01/2003 00:04 03/01/2003 00:04 03/03/2003 09:30	Jamie A Lutz Jamie A Lutz Aubri L Peters	50 n.a. 1	



4002206 Lancaster Laboratories Sample No. ww

by DM Collected: 02/24/2003 16:15

Account Number: 10904

Submitted: 02/27/2003 09:20

ChevronTexaco

Reported: 03/12/2003 at 17:20

6001 Bollinger Canyon Rd L4310

Discard: 04/12/2003

Water

San Ramon CA 94583

MW-4-W-030224

Grab

Facility# 206145 Job# 386492 800 Center St-Oakland

T0600102230 MW-4

GRD

CSO-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit 50.	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).			Diesel	- -	
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of Tigasoline constituents eluting present time.	n.a. PH-GRO does not rior to the C6	N.D. include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
02159	BTEX, MTBE					
		71-43-2	8.0	0.50	ug/l	1
02161	Benzene	108-88-3	N.D.	0.50	ug/1	1
02164	Toluene	100-41-4	N.D.	0.50	ug/l	1
02166	Ethylbenzene	1330-20-7	N.D.	1.5	ug/l	1
02171 02172	Total Xylenes Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

		Laboratory	Chro	NICIE Analysis		Dilution
CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B,	Trial# 2	Date and Time 03/06/2003 12:23	Analyst Tracy A Cole	Factor 1
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline	1	03/01/2003 04:56	Jamie A Lutz	1
02159 01146 07003	BTEX, MTBE GC VOA Water Prep Extraction - DRO (Waters)	Method SW-846 8021B SW-846 5030B TPH by CA LUFT- DRO/8015B, mod	1 1 1	03/01/2003 04:56 03/01/2003 04:56 03/03/2003 09:30	Jamie A Lutz Jamie A Lutz Aubri L Peters	1 n.a. 1



4002207 Lancaster Laboratories Sample No.

Collected:02/25/2003 13:00

by DM

Account Number: 10904

Submitted: 02/27/2003 09:20 Reported: 03/12/2003 at 17:20

ChevronTexaco

Discard: 04/12/2003

Water Grab

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

MW-5-W-030225

GRD

Facility# 206145 Job# 386492 800 Center St-Oakland

T0600102230 MW-5

CSO-5

CAT			As Received	Method		Dilution		
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Pactor		
05553	TPH - DRO CA LUFT (Waters) According to the California LUFT Range Organics was performed by				ug/l	1		
	Range Organics was performed by peak after companies of the project and C28 normal to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.							
01729	TPH-GRO - Waters							
01730	TPH-GRO - Waters The reported concentration of Tigasoline constituents eluting patent time.	n.a. PH-GRO does not rior to the C6	N.D. t include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1		
02159	BTEX, MTBE							
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1		
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1		
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1		
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1		
02171	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1		

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 03/05/2003 23:39	Analyst Tracy A Cole	Factor 1
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline Method	1	03/01/2003 05:29	Jamie A Lutz	1
02159 01146 07003	BTEX, MTBE GC VOA Water Prep Extraction - DRO (Waters)	SW-846 8021B SW-846 5030B TPH by CA LUFT- DRO/8015B, mod	1 1 1	03/01/2003 05:29 03/01/2003 05:29 03/03/2003 09:30	Jamie A Lutz Jamie A Lutz Aubri L Peters	1 n.a. 1

Analysis Report



Page 1 of 1

4002208 Lancaster Laboratories Sample No.

by DM Collected: 02/25/2003 11:45

Account Number: 10904

Submitted: 02/27/2003 09:20

Reported: 03/12/2003 at 17:20

Discard: 04/12/2003

Water Grab MW-6-W-030225

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

GRD Facility# 206145 Job# 386492 T0600102230 MW-6 800 Center St-Oakland

CSO-6

				As Received		Dilution
CAT			As Received	Method		
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	Limit 50.	ug/l	1
05553	According to the California LUFT			r Diesel		
	Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons). Site-specific MS/MSD samples were was performed to demonstrate pre-	peak area compense standard to the contract submitted	barison of the sa (between C10 and ed for the projec	C28 normal		
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the C6	t include MTBE or (n-hexane) TPH-G	other GRO range		,
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02164	Ethylbenzene	100-41-4	Ň.D.	0.50	ug/l	1
		1330-20-7	N.D.	1.5	ug/l	1
02171 02172		1634-04-4	N.D.	2.5	ug/l	1

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
NO. 05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B,	1	03/06/2003 00:01	Tracy A Cole	1
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline	1	03/01/2003 06:01	Jamie A Lutz	1
00356	BTEX, MTBE	Method SW-846 8021B	1	03/01/2003 06:01	Jamie A Lutz	1
02159	•	SW-846 5030B	1	03/01/2003 06:01	Jamie A Lutz	n.a.
01146 07003	GC VOA Water Prep Extraction - DRO (Waters)	TPH by CA LUFT- DRO/8015B, mod	1	03/03/2003 09:30	Aubri L Peters	1



Lancaster Laboratories Sample No. WW 4002209

Collected: 02/25/2003 14:05

Submitted: 02/27/2003 09:20

Reported: 03/12/2003 at 17:20

Discard: 04/12/2003

MW-7-W-030225

Water

Account Number: 10904

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

GRD Facility# 206145 Job# 386492 T0600102230 MW-7 800 Center St-Oakland

CSO-7

			-	As Received		
			As Received	Method		Dilution
CAT No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05553	TPH - DRO CA LUFT (Waters) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons). Site-specific MS/MSD samples wer was performed to demonstrate pre	ence standard	(between C10 and	50. Diesel nple pattern C28 normal	ug/1	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time.	n.a. PH-GRO does no rior to the C6	N.D. t include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
02159	BTEX, MTBE					
		71-43-2	N.D.	0.50	ug/l	1
02161	Benzene	1 42 F	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4		1.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	2.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.0	- •••	

		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 03/06/2003 00:23	Analyst Tracy A Cole	Factor 1
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline Method	1	03/01/2003 06:34	Jamie A Lutz	1
02159 01146 07003	BTEX, MTBE GC VOA Water Prep Extraction - DRO (Waters)	Method SW-846 8021B SW-846 5030B TPH by CA LUFT- DRO/8015B, mod	1 1 1	03/01/2003 06:34 03/01/2003 06:34 03/03/2003 09:30	Jamie A Lutz Jamie A Lutz Aubri L Peters	1 n.a. 1

Analysis Report



Page 1 of 1

4002210 Lancaster Laboratories Sample No.

Collected: 02/25/2003 10:30

by DM

Account Number: 10904

ChevronTexaco

Submitted: 02/27/2003 09:20 Reported: 03/12/2003 at 17:20 Discard: 04/12/2003

MW-8-W-030225

Grab

Water

San Ramon CA 94583

As Received

6001 Bollinger Canyon Rd L4310

Facility# 206145 Job# 386492

800 Center St-Oakland

T0600102230 MW-8

CSO-8

CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	. 1
	According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons) Site-specific MS/MSD samples wer was performed to demonstrate pre	peak area compense standard compense standard	defision of the said (between C10 and ed for the project	C28 normal		
01729	TPH-GRO - Waters	•				
01730	TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time.	n.a. PH-GRO does no rior to the C6	N.D. t include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
02159	BTEX, MTBE					·
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02171	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

GRD

43 m		Laboratory	Chro	nicle Analysis		Dilution
CAT No. 05553	Analysis Name TPH - DRO CA LUFT (Waters)	Method CALUFT-DRO/8015B,	Trial# 3	Date and Time 03/12/2003 13:56	Analyst Tracy A Cole	Factor 1
01729	TPH-GRO - Waters	Modified N. CA LUFT Gasoline Method	1	03/01/2003 07:06	Jamie A Lutz	1
02159 01146 07003	BTEX, MTBE GC VOA Water Prep Extraction - DRO (Waters)	SW-846 8021B SW-846 5030B TPH by CA LUFT- DRO/8015B, mod	1 1 1	03/01/2003 07:06 .03/01/2003 07:06 03/03/2003 09:30	Jamie A Lutz Jamie A Lutz Aubri L Peters	1 n.a. 1



Quality Control Summary

Client Name: ChevronTexaco

Group Number: 842836

Reported: 03/12/03 at 05:20 PM

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 03059A55A TPH-GRO - Waters Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample n N.D. N.D. N.D. N.D. N.D.	umber(s): 505 .5 .5 .5 2.5	4002202-40 ug/l ug/l ug/l ug/l ug/l ug/l	902203,40 113 92 96 97 98 102	02205-4002 129 93 97 98 99 103	70-130 80-118 82-119 81-119 82-120 79-127	13 1 1 1 1	30 30 30 30 30 30
Batch number: 030600011A TPH - DRO CA LUFT (Waters)		number(s):	4002203-4 ug/l	002210 90	96	54-120	7	20
Batch number: 03063A55A TPH-GRO - Waters Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample N.D. N.D. N.D. N.D. N.D. N.D. N.D.	number(s): 505 .5 .5 .5 .5 2.5	4002204 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	86 89 95 96 97 101	87 92 96 98 98 100	70-130 80-118 82-119 81-119 82-120 79-127	1 4 1 2 2	30 30 30 30 30 30

Sample Matrix Quality Control

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	<u>%REC</u>	%REC	Limite	RPD	<u>MAX</u>	Conc	Conc	RPD	<u>Max</u>
Batch number: 03059A55A	Sample	number	(s): 400220	2-40022	03,400	2205-400221	.0		
TPH-GRO - Waters	73	77	70-130	2	30				
Benzene	(2)	(2)	67-136	2	20				
Toluene	94	88	78-129	6	30				*
Ethylbenzene	75	70*	75-133	2	30				
Total Xylenes	96	91	86-132	4	30				
Methyl tert-Butyl Ether	(2)	(2)	66-136	1	30				
Batch number: 03063A55A	Cample	e number	(s): 40022	04					
TPH-GRO - Waters	96	109	70-130	6	30				
Benzene	97		67-136						
Toluene	102		78-129						
Ethylbenzene	103		75-133						
Total Xylenes	103		B6-132						
Methyl tert-Butyl Ether	100		66-136						

Surrogate Quality Control

Analysis Name: BTEX, MTBE Batch number: 03059A55A

Trifluorotoluene-F

Trifluorotoluene-P

4002202	101	115
4002203	131	144*
4002205	101	117

*- Outside of specification

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



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425



Page 2 of 2

Quality Control Summary

Client Nam	me: ChevronTexaco	~~		Group Nu	mber: 842836	
Reported:	03/12/03 at 05:20	PM	Surrogate	Ouality	Control	
			Burroguce	E	-	
4002206	101	114 116				
4002207	104					
4002208	101	115				
4002209	102	114			4	
4002210	101	113				
Blank	100	114				
LCS	107	113				
LCSD	106	113			*	
MS	106	115				
MSD	107	116				
Limits:	57-146	66-1	16		·	
Analysis Na Batch numbe	me: TPH - DRO CA LUFT r: 030600011A Orthoterphenyl	(Waters)	,			
4002203	81					
4002203	98					
4002204	90					
4002205	83					•
4002207	88					
4002207	90					
4002208	89					
4002210	95					
Blank	90					
LCS	93					
LCSD	97					
Limits:	59-139					
TIMICS:	59-139				•	
Analysis N Batch numb	ame: BTEX, MTBE er: 03063A55A Trifluorotoluene-F	Tri	fluorotolu e ne-P			
4002204	99	114				
Blank	102	115				
LCS	102	112				
	100	112			•	
LCSD		109				
MS MSD	108 107	10.				
Limits:	57-146	66-	136			

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Chevron California Region Analysis Requesi/Chain or Coston,

412	Lancaster Laboratories Where quality is a science.
1	Where quality is a science.

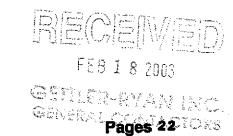
For Lancaster Laboratories use only

Acct. #: 10904 Sample #: 4002202-10

scr#:<u>842836</u>

Where quality is a science.	N771	003-0		١		Γ			Ana	yses	Rec	uest	ed				
				<u> </u>		╁			Pre	serva	ation	Cod	es_		 Preservati	re Codes = Thiosulfa	ate
Facility #: SS#206145 G-R#386492 Glo Site Address: 800 CENTER ST.OAKLAND, C	A		, "	XIIIBN		#	#	draus						-	 N = HNO ₃ B S = H ₂ SO ₄ C	= NaOH = Other	
Chevron PM: KS Lead Consultant/Office: G-R, Inc., 6747 Sierra Co Consultant Prj. Mgr.: Deanna L. Harding (de Consultant Phone #: 925-551-7555 Sampler: To Kund Moren C	consultant:urt, Suite J, Du anna@grinc.co Fax #: 92 on SAR:	blin, Ca. 94568		Water Potable	Oil ☐ Air ☐ Total Number of Containers	8		TPH 8015 MOD DRO SIlica Gel Cleanup	Oxygenates	Lead 7420 🔲 7421 🖂					☐ J value reporting ☐ Must meet lowe possible for 826 8021 MTBE Confil ☐ Confirm highest ☐ Confirm all hits ☐ Run oxy s	st detection 0 compound mation hit by 8260 by 8260 on highest I	15
Sample Identification	D010	ollected 5 3	Soil	<u>≯</u> X	0 1	- 画 シメ	基		- 						Comments / Re	marks	ļ
MA MW-1R MW-3 MW-3 MW-6 MW-6 MW-1 MW-1 MW-4	02-24-03 1 02-25-03 1 02-25-03 1 02-25-03 02-25-03 02-25-03 02-25-03	320 500 1015 300 145 405 X		XXXXXX		5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX									
Turnaround Time Requested (TAT) (please cines of the STD TAT 72 hour 48 hour 4 day 5 day		Relinquished by	<u>М</u> 1.	our l	io fa	-	J	02	Date Date	16	me me	Rec	èived 	by:	Imay	Date 7-26:03 Date	Time Time 330
Data Package Options (please circle if required) QC Summary Type I — Full Type VI (Raw Data) ☐ Coelt Deliverable not need WIP (RWQCB) Disk	ded	Relinquished by UPS F	y Con		Oil	ier:			413	15		Rec	elved	pà.	William No	2168) Date 2/2/0	Time. 0422





FAX Cover Page

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2425 New Holland Pike Lancaster, PA 17605-2425 Phone: 717-656-2300

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Company: Gettler Ryan

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1916-631-1317

From:

Automated Fax

Message:

Client Service Representative: Teresa M. Lis

Partial Report Page 1 of 20

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: SW 3986853

Collected: 01/29/2003 07:30 by AS

Account: 10992

Submitted: 01/30/2003 09:20 Reported: 02/13/2003 at 15:15 ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-24-S-5-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-24

CAT			As Received	Method	15-45-	Diluti Factor
Яо.	Analysis Name	CAS Number	Result	Detection Limit	Units	320001
05547	TPH - DRO CA LUFT (Soils) According to the California L Range Organics was performed to that of our #2 fuel oil re hydrocarbons).	by beak area com	marison of the 2	10. For Diesel Eample pattern	mg/kg	1
1726	TPH-GRO - Soils					
						26
01727	TPH-GRO - Soils The analysis for volatiles wa in methanol. The reporting I The reported concentration of gasoline constituents eluting start time.	limits were adjus F TPH-GRO does no	sted appropriate. ot include MTBE	or other	mg/kg	25
	The analysis for volatiles was in methanol. The reporting I The reported concentration of gasoline constituents eluting	as performed on a limits were adjust F TPH-GRO does no	a sample which wasted appropriate. of include MTBE	as preserved iy. or other	mg/kg	-
02160	The analysis for volatiles wa in methanol. The reporting I The reported concentration of gasoline constituents eluting start time.	as performed on a limits were adjust F TPH-GRO does no	a sample which wasted appropriate. of include MTBE	as preserved ty. or other -GRO range	mg/kg	25
02160	The analysis for volatiles was in methanol. The reporting I The reported concentration of gasoline constituents eluting start time. BTEX/MTBE	as performed on a limits were adjus F TPH-GRO does no g prior to the Co	a sample which wasted appropriate. bt include MTBE (or other -GRO range	mg/kg mg/kg	25 25
02160 02174 02177	The analysis for volatiles was in methanol. The reporting I The reported concentration of gasoline constituents eluting start time. BTEX/MTBE Benzene Toluene	as performed on a limits were adjust TPH-GRO does not prior to the Co	a sample which wasted appropriate. ot include MTBE (n-hexane) TPH-	or other -GRO range 0.0050 0.0050	mg/kg mg/kg mg/kg	25 25 25
02160 02174 02177 02178 02182	The analysis for volatiles was in methanol. The reporting I The reported concentration of gasoline constituents eluting start time. BTEX/MTBE Benzene	as performed on a limits were adjust TPH-GRO does not prior to the Control of the	n sample which wasted appropriate. ot include MTBE (of (n-hexane) TPH-N.D. 0.012	or other -GRO range	mg/kg mg/kg	25 25

State of California Lab Certification No. 2116

in methanol. The reporting limits were adjusted appropriately.

		Laboratory	Chron:			Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Analysis Date and Time 02/10/2003 12:20	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 04:31	Deborah S Garrison	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 04:31	Deborah S Garrison	25

Sample Number: SW 3986854

Collected: 01/29/2003 07:40 by AS

Account: 10992

ChevronTexaco

Submitted: 01/30/2003 09:20

Reported: 02/13/2003 at 15:15

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-24-S-10-030129 Facility# 206145 Grab

GRRC

800 Center St-Oakland

T0600102230 G-24

Soil

Partial Report Page 2 of 20

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample	Number:	SW	3986854
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Cat No .	Analysis Name	CAS Number	As Received Result	Mathod Detection Limit	Units	Dilution Factor	
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refe hydrocarbons).	peak area com	parison of the s	10. or Diesel ample pattern	mg/kg	1	
01726	TPH-GRO - Soils					1	
01727	TPH-GRO + Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	its were adjus PH-GRO does no	ted appropriatel t include MTBE o	y. r other	mg/kg	25	
02160	BTEX/MTBE						
	Benzene	71-43-2	0.0074	0.0050 0.0050	mg/kg mg/kg	25 25	

State of California Lab Certification No. 2116

CAT		Laboratory	Chron	icle Analysis		Dilution
No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Mathod CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 13:57	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 09:35	Deborah S Garrison	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 09:35	Deborah S Garrison	25

Sample Number: SW 3986855

Collected: 01/29/2003 10:05 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco

Reported: 02/13/2003 at 15:15

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-24-S-15-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland TO6

T0600102230 G-24

G2415

CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT	n.a.	N.D. muantitation for	10. Diesel	mg/kg	1

According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).

Partial Report Page 3 of 20

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample	Number:	SW	3986855
--------	---------	----	---------

01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles in methanol. The reporting The reported concentration gasoline constituents elu- start time.	ng limits were adju: n of TPH-GRO does no	sted appropria ot include MTB	tely. E or other		
02160	BTEX/MTBE					
02174	Benzene	71-43-2	0.026	0.0050	mg/kg	25
02177	Toluene	108-88-3	0.012	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	0.0096	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatile	s was performed on	a sample which	was preserved		

State of California Lab Certification No. 2116

in methanol. The reporting limits were adjusted appropriately.

CAT		Laboratory	Chron:	icle Analysis		Dilution
No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 14:19	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 10:13	Deborah S Garrison	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 10:13	Deborah S Garrison	25

09947	15H - DWO CW FOLL (SOLIS)	CAMOL! DIG! DOTO!	_		-	
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 10:13	Deborah S Garrison	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 10:13	Deborah S Garrison	25

3986856 Sample Number: SW

Collected: 01/29/2003 08:00 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco

Reported: 02/13/2003 at 15:15

6001 Bollinger Canyon Rd L4310

San Ramon CA 94503

G-25-S-5-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland

TO600102230 G-25

GZ585 CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refe hydrocarbons).	beak area com	parison of the s	sample pattern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was	n.a. performed on a	N.D. sample which watted appropriatel	1.0 as preserved	mg/kg	25

in methanol. The reporting limits were adjusted app The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.

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20000

20000

mg/kg

mg/kg

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986856 Sample Number: SW

02174 Benzene 71-43-2 N.D. 0.0050 mg/kg 02177 Toluene 108-88-3 0.0095 0.0050 mg/kg 02178 Ethylbenzene 100-41-4 N.D. 0.0050 mg/kg	
02178 Ethylbenzene 100-41-4 N.D. 0.0050 mg/kg 02182 Total Xylenes 1330-20-7 N.D. 0.015 mg/kg 02199 MTBE 1634-04-4 N.D. 0.050 mg/kg	25 25 25 25 25

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

		Laboratory	Chron:	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 21:02	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 10:51	Deborah S Garrison	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 10:51	Deborah S Garrison	25

Sample Number: SW 3986857

Collected: 01/29/2003 08:05 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco

Reported: 02/13/2003 at 15:15

Ethylbenzene

Total Xylenes

6001 Bollinger Canyon Rd L4310

12.

San Ramon CA 94583

Soil G-25-8-10-030129 Grab

Facility# 206145

02178

02182

02199

GRRC

G2510 CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05547	TPH - DRO CA LUFT (Soils)	n.a.	1,400.	250.	mg/kg	25
	According to the California LU Range Organics was performed b to that of our #2 fuel oil ref hydrocarbons).	v peak area com	mparison of the s	sample battern		
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	8,800.	800.	mg/kg	20000
	Poor surrogate recoveries were needed to perform the analysis			to the dilution		
02160	BTEX/MTBE					
	·	71-43-2	27.	4.0	mg/kg	20000
02160 02174 02177	BTEX/MTBE Benzene Toluene	71-43-2 108-88-3	27., 5 6 0.	4.0 4.0	mg/kg mg/kg	20000 20000 20000

N.D.

1,200.

1634-04-4 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for the compound listed below. The

1330-20-7

Partial Report Page 5 of 20

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: SW 3986857

presence or concentration of this compound cannot be determined due to the presence of this interferent.

MTBE

Poor surrogate recoveries were observed due to the dilution needed to perform the analysis.

State of California Lab Certification No. 2116

		Laboratory	Chron	icle		
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Mathod CALUFT-DRO/8015B,	Trial#	Analysis Date and Time 02/06/2003 19:10	Analyst Tracy A Cole	Dilution Factor 25
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 02:04	Deborah S Garrison	20000
02160	BTEX/MTBE	Method sw-846 8021B	1	02/05/2003 02:04	Deborah S Garrison	20000

Sample Number: SW 3986858

Collected: 01/29/2003 08:10 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco

Reported: 02/13/2003 at 15:15

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-25-S-15-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-25

CAT No.	Analysis Name	CAS Mumber	As Received Result	Method Detection Limit	Units	Dilutio Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refe hydrocarbons).	neak area com	parison of the s	100. or Diesel ample pattern	mg/kg	10
01726	TPH-GRO - Soils					
			1,200.	200.	mg/kg	5000
01727	TPH-GRO - Soils	n.a.	4, 200,			
01727	TPH-GRO - Soils Poor surrogate recoveries were needed to perform the analysis.	observed for t		to the dilution		
01727	Poor surrogate recoveries were	observed for t		to the dilution		
02160	Poor surrogate recoveries were needed to perform the analysis.	observed for t		to the dilution	mg/kg	5000
021 6 0 02174	Poor surrogate recoveries were needed to perform the analysis. BTEX/MTBE Benzene	observed for t	his sample due t		mg/kg	5000
021 6 0 02174 02177	Poor surrogate recoveries were needed to perform the analysis. BTEX/MIBE Benzene Toluene	observed for t	his sample due t	1.0	mg/kg mg/kg	5000 5000
021 6 0 02174	Poor surrogate recoveries were needed to perform the analysis. BTEX/MTBE Benzene	observed for t 71-43-2 108-88-3	his sample due t 8.5 90.	1.0 1.0	mg/kg	5000

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

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Dilution

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986858 Sample Number: SW

State of California Lab Certification No. 2116

		Laboratory	Chron	icle		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Mathod CALUFT-DRO/8015B,	Trial# 1	Analysis Date and Time 02/06/2003 19:32	Analyst Tracy A Cole	Factor 10
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 02:42	Deborah S Garrison	5000
02160	BTEX/MTBE	Method sw-846 8021B	1	02/05/2003 02:42	Deborah S Garrison	5000

Sample Number: SW 3986859

Collected: 01/29/2003 08:20 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco ·

Reported: 02/13/2003 at 15:16

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-26-8-5-030129

Soil Grab

Facility# 206145

GRRC

800 Center St-Oakland T0600102230 G-26

G26S5

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	neak area comi	oarison of the S	subte barrern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	its were adjus PH-GRO does no	ted appropriates t include MTBE o	y. or other	mg/kg	25
02160	BTEX/MTBE					

		Laboratory	Chron	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B, Modified	Trial# 1	Date and Time 02/06/2003 14:42	Analyst Tracy A Cole	Factor 1

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Dilution

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

		Laboratory	Chron	lcie Analysis		Dilution
CAT No. 01726	Analysis Name TPH-GRO - Soils	Method N. CA LUFT Gasoline	Trial# 1	Date and Time 02/05/2003 03:20	Analyst Deborah S Garrison	Factor 25
02160	BTEX/MTBE	Method sw-846 8021B	1	02/05/2003 03:20	Deborah S Garrison	25

Sample Number: SW 3986860

Collected: 01/29/2003 08:25 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco

Reported: 02/13/2003 at 15:16

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-26-S-10-030129

Grab

Soil

Facility# 206145

GRRC

800 Center St-Oakland T0600102230 G-26 G2610

CAT			As Received	Mathod		D3.101.20
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	neak area com	parison of the sa	mbie barrern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	its were adjus PH-GRO does no	t include MTBE o	y. r other	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was in methanol. The reporting lin	71-43-2 108-86-3 100-41-4 1330-20-7 1634-04-4 performed on a nits were adjus	N.D. 0.0092 N.D. N.D. N.D. a sample which wasted appropriatel	0.0050 0.0050 0.0050 0.015 0.050 as preserved	mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25 25

State of California Lab Certification No. 2116

Laboratory Chronicle Dilution Analysis CAT Factor Trial# Date and Time Analyst Mathod No. Analysis Name 02/06/2003 15:04 Tracy A Cole 1 CALUFT-DRO/8015B, 05547 TPH - DRO CA LUFT (Soils) Modified Deborah S Garrison 25 02/05/2003 03:58 N. CA LUFT Gasoline 1 01726 TPH-GRO - Soils Method Deborah S Garrison 25 02/05/2003 03:58 SW-846 8021B BTEX/MTBE 02160

Sample Number: SW 3986861

Collected: 01/29/2003 08:30 by AS

Account: 10992

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986861 Sample Number: SW

Submitted: 01/30/2003 09:20 Reported: 02/13/2003 at 15:16 ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-26-S-15-030129

Soil Grab

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-26

G2615 CAT No.	Analysis Name	CAS Number	As Received Result	Mathod Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California Range Organics was performed to that of our #2 fuel oil r hydrocarbons).	hy peak area com	parison of the a	10. For Diesel sample pattern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles win methanol. The reporting The reported concentration of gasoline constituents elutinestart time.	limits were adjus of TPH-GRO does no	ted appropriate. ot include MTBE (ry. or other	mg/kg	25
02160	BTEX/MTBE					

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for the compound listed below. The presence or concentration of this compound cannot be determined due to the presence of this interferent. toluene

State of California Lab Certification No. 2116

		Laboratory	Chron			Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Analysis Date and Time 02/06/2003 15:26	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 10:02	Stephanie A Selis	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/05/2003 10:02	Stephanie A Selis	25

3986862 Sample Number: SW

Collected: 01/29/2003 08:40 by AS

Account: 10992

Submitted: 01/30/2003 09:20 Reported: 02/13/2003 at 15:16 ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986862 Sample Number: SW

G-27-S-5-030129

Soil Grab

Facility# 206145

GRRC

800 Center St-Oakland G2705

T0600102230 G-27

_	_	•	v	_	

	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	peak area com	parison of the s	10. or Diesel ample pattern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	its were adjus PH-GRO does no	ted appropriatel t include MTBE o	y. or other	mg/kg	25
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	0.020	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	0.018	0.015	mg/kg	25
		1634-04-4	N.D.	0.050	mq/kg	25

State of California Lab Certification No. 2116

		Laboratory	Chron	icle	•	
CAT No.	Analysis Name	- Mathod	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05547	TPH - DRO CA LUFT (Soils)	CALUFT-DRO/8015B, Modified	1	02/06/2003 15:49	Tracy A Cole	1
01726	TPH-GRO - Soils	N. CA LUFT Gasoline	1	02/04/2003 16:33	Deborah S Garrison	25
02160	RTEX/MTRE	Method SW-846 8021B	1	02/04/2003 16:33	Deborah S Garrison	25

Sample Number: SW 3986863

Collected: 01/29/2003 08:45 by AS

Account: 10992

Submitted: 01/30/2003 09:20

BTEX/MTBE

ChevronTexaco

Reported: 02/13/2003 at 15:16

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-27-S-10-030129

Soil Grab

Facility# 206145

GRRC

SW-846 8021B

800 Center St-Oakland

T0600102230 G-27

02160

G2710 CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT	n.a. Protocol, the	1,600. quantitation f	250. for Diesel	mg/kg	25

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986863 Sample Number: SW

Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).

TPH-GRO - Soils 01726

10000 mg/kg 400. 5,500. 01727 TPH-GRO - Soils

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

BTEX/MTBE 02160

02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Kylenes MTRE	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	13. 250. 180. 700. 20.	1.0 1.0 1.0 3.0	mg/kg mg/kg mg/kg mg/kg mg/kg	5000 5000 5000 5000 5000
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Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

State of California Lab Certification No. 2116

		Laboratory	Caron	lCIE Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 19:55	Analyst Tracy A Cole	Factor 25
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 12:34	Stephanie A Selis	10000
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 17:11	Deborah S Garrison	5000

3986864 Sample Number: SW

Collected: 01/29/2003 08:50 by AS

Account: 10992 ChevronTexaco

Submitted: 01/30/2003 09:20

Reported: 02/13/2003 at 15:17

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-27-S-15-030129

Soil Grab

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-27

G2715 CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUI Range Organics was performed by to that of our #2 fuel oil refo hydrocarbons).	, neak area com	marison of the s	sambte barrern	mg/kg	1
01726	TPH-GRO - Soils					+
01727	TPH-GRO - Soils	n.a.	10,000.	400.	mg/kg	10000

Poor surrogate recoveries were observed for this sample due to the dilution

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986864 Sample Number: SW

needed to perform the analysis.

02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	58. 790. 350. 1,300. 94.	2.0 2.0 2.0 6.0 20.	mg/kg mg/kg mg/kg	10000 10000 10000 10000 10000

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

State of California Lab Certification No. 2116

		Laboratory	Chron:	icle Analysis	•	Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial#	Date and Time 02/06/2003 18:48	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 13:12	Stephanie A Selis	10000
02160	BTEX/MTBE	Method SW-846 8021B	1	02/05/2003 13:12	Stephanie A Selis	10000

Sample Number:	SW	3986865
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Collected: 01/29/2003 09:00 by AS

Account: 10992

Submitted: 01/30/2003 09:20

ChevronTexaco 6001 Bollinger Canyon Rd L4310

Reported: 02/13/2003 at 15:17

San Ramon CA 94583

G-28-S-5-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-28

G2805

G2805 CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUI Range Organics was performed by to that of our #2 fuel oil refu	, neak area com	DWITZON OF the am	10. r Diesel mple pattern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting li The reported concentration of gasoline constituents eluting start time.	mits were adjus TPH-GRO does no	t include MTBE or	other	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178	Benzene Toluene Ethylbenzene	71-43-2 108-88-3 100-41-4	0,0054 0.030 0.0063	0.0050 0.0050 0.0050	mg/kg mg/kg mg/kg	25 25 25

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986865 Sample Number: SW

02182 Total Xylenes 1330-20-7

0.026

0.015 0.050

25 mg/kg 25

02199 MTBE 1634-04-4

mg/kg

N.D.

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

		Laboratory	Chron.	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial#	Date and Time 02/06/2003 16:11	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 18:27	Deborah S Garrison	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 18:27	Deborah S Garrison	25

Sample Number: SW 3986866

Collected: 01/29/2003 09:05 by AS

Account: 10992

Submitted: 01/30/2003 09:20

Reported: 02/13/2003 at 15:17

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-28-S-10-030129

Facility# 206145

Soil

Grab

GRRC

800 Center St-Oakland

T0600102230 G-28

CAT No.	Analysis Name	CAS Mumber	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refe hydrocarbons).	neak area COII	marison of the s	sampre bacrern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting limit The reported concentration of T gasoline constituents eluting p start time.	nits were adju: PH-GRO does no	sted appropriate. ot include MTBE (or other	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was in methanol. The reporting lin	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 performed on mits were adju	0.027 0.096 0.056 0.28 N.D. a sample which w	0.0050 0.0050 0.0050 0.015 0.050 vas preserved	mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25 25

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

		Laboratory	Chron	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 16:34	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline Method	1	02/04/2003 19:05	Deborah S Garrison	25
02160	BTEX/MTBE	SW-846 8021B	1	02/04/2003 19:05	Deborah S Garrison	25

Sample Number: SW 3986867

Collected: 01/29/2003 09:15 by AS

Account: 10992

Submitted: 01/30/2003 09:20

Reported: 02/13/2003 at 15:17

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-28-S-15-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland T0600102230 G-28

G2815

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	peak area com	parison of the sa	10. or Diesel ample pattern	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils .	n.a.	620.	200.	mg/kg	5000
	Poor surrogate recoveries were needed to perform the analysis.		his sample due t	o the dilution		
02160	BTEX/MTBE				. *	
02174	Benzene	71-43-2	2.3	1.0	mg/kg	5000
02177	Toluene	108-88-3	34.	1.0	mg/kg	5000
02178	Ethylbenzene	100-41-4	17.	1.0	mg/kg	5000
02182	Total Xylenes	1330-20-7	71.	3.0	mg/kg	5000
02199	MTBE	1634-04-4	N.D.	10.	mg/kg	5000

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

Due to the nature of the sample matrix, normal reporting limits were not attained for MTBE.

		Laboratory	Chron	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Mathod CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 16:56	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 11:56	Stephanie A Selis	5000
02160	BTEX/MTBE	Method SW-846 8021B	1	02/05/2003 11:56	Stephanie A Selis	5000

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Laboratory Chronicle Analysis

CAT Trial# Date and Time Method Analysis Name No.

Analyst

Dilution Factor

3986868 Sample Number: SW

Collected: 01/29/2003 09:30 by AS

Account: 10992

ChevronTexaco Submitted: 01/30/2003 09:20

6001 Bollinger Canyon Rd L4310 Reported: 02/13/2003 at 15:17

San Ramon CA 94583

G-29-S-5-030129

Grab

Soil

Facility# 206145 800 Center St-Oakland

GRRC T0600102230 G-29

G2905 CAT No.	Analysis Name	CAS Number	As Received Result	Mathod Detection Limit	Units	Dilution Pactor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	neak area com	arison of the sa	mbte becrery	mg/kg	1
01726	TPH-GRO - Soils	•				
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim	its were adjus	ted abbtobingrei)	•	mg/kg	25

The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. BTEX/MTBE

02160

02174 Benzene 71-43-2 N.D. 0.0050 mg/l 02177 Toluene 108-88-3 0.021 0.0050 mg/l 02178 Ethylbenzene 100-41-4 0.0057 0.0050 mg/l 02182 Total Xylenes 1330-20-7 0.021 0.015 mg/l 02199 MTBE 1634-04-4 N.D. 0.050 mg/l	j/kg	25 25 25 25
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The analysis for volatiles was performed on a sample which was preserved

in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

		Laboratory	Chron:	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 18:03	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 09:24	Stephanie A Selis	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/05/2003 09:24	Stephanie A Selis	25

3986869 Sample Number: SW

Collected: 01/29/2003 09:40 by AS

Account: 10992 ChevronTexaco

Submitted: 01/30/2003 09:20

6001 Bollinger Canyon Rd L4310

Reported: 02/13/2003 at 15:18

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986869 Sample Number: SW

San Ramon CA 94583

G-29-S-10-030129

Grab

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-29

Soil

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LU Range Organics was performed by to that of our #2 fuel oil ref hydrocarbons).	w neak area com	Darison of the a	100. for Diesel sample pattern	mg/kg	10
01726	TPH-GRO - Soils	- 1803 k		.we		
01727	TPH-GRO - Soils	n.a.	5,200.	400.	mg/kg	10000
	Poor surrogate recoveries werneeded to perform the analysi	e observed før t	his sample due			. 11 W
02160	Poor surrogate recoveries werneeded to perform the analysi	e observed for t	his sample due :			in w
02160	needed to perform the analysi	e observed for ts.	his sample due (to the dilution	mg/kg	10000
02160 02174	needed to perform the analysi BTEX/MTBE Benzene	s .		to the dilution 2.0 2.0	mg/kg	10000
02160 02174 02177	needed to perform the analysi BTEX/MTBE Benzene Toluene	s. 71-43-2	39.	2.0 2.0 2.0 2.0	mg/kg mg/kg	10000 10000
02160 02174	needed to perform the analysi BTEX/MTBE Benzene	71-43-2 108-88-3	39. 380.	to the dilution 2.0 2.0	mg/kg	10000

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

State of California Lab Certification No. 2116

	•	Laboratory	Chron:	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial#	Date and Time 02/06/2003 20:17	Analyst Tracy A Cole	Factor 10
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/05/2003 13:50	Stephanie A Selis	10000
02160	BTEX/MTBE	Method SW-846 8021B	1	02/05/2003 13:50	Stephanie A Selis	10000

3986870 Sample Number: SW

Collected: 01/29/2003 09:45 by AS

Account: 10992

Submitted: 01/30/2003 09:20

Reported: 02/13/2003 at 15:18

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-29-S-15-030129

Soil

Facility# 206145

GRRC

T0600102230 G-29 800 Center St-Qakland

Grab

G2915

Dilution Method As Received CAT Pactor Units Detection CAS Number Result Analysis Name No. <u>Limi</u>t 25 mg/kg 250. 1,100. n.a. 05547 TPH - DRO CA LUFT (Soils)

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Dilution

Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: SW 3986870

According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).

TPH-GRO - Soils 01726

5000 mg/kg 200. 4,800. TPH-GRO - Soils n.a. 01727

Poor surrogate recoveries were observed for this sample due to the dilution

needed to perform the analysis.

02160 BTEX/MTBE

02174	Benzene	71-43-2	14.	1.0	mg/kg	5000
-		108-68-3	290.	1.0	mg/kg	5000
02177	Toluene	100-41-4	170.	1.0	mg/kg:	5000
02178	Ethylbenzene			3.0	mg/kg.	5000
02182	Total Xylenes	1330-20-7	670.	-	mg/kg	5000
02199	MTBE	1634-04-4	18.	10.	nd, va	

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

State of California Lab Certification No. 2116

		Laboratory	Chron	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Mathod CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/06/2003 20:40	Analyst Tracy A Cole	Factor 25
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 23:32	Deborah S Garrison	5000
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 23:32	Deborah S Garrison	5000

3986871 Sample Number: SW

Collected: 01/29/2003 09:50 by AS

Account: 10992

Submitted: 01/30/2003 09:20 Reported: 02/13/2003 at 15:18

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Method

San Ramon CA 94583

G-30-S-5-030129

Soil Grab

Facility# 206145

GRRC

T0600102230 G-30 800 Center St-Oakland

G3005

As Received CAT Factor Units Detection Result CAS Number Analysis Name No. Limit

mg/kg 10. N.D. n.a. TPH - DRO CA LUFT (Soils) 05547

According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons).

TPH-GRO - Soils 01726

25 mg/kg 1.0 7.1 n.a. TPH-GRO - Soils 01727

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986871 Sample Number: SW

The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.

BTEX/MIBE 02160

02174 02177 02178 02182	Benzene Toluene Ethylbenzene Total Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	0.014 0.25 0.14 0.70	0.0050 0.0050 0.0050 0.015 0.050	mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25
02199	MTRE	1634 - 04-4	N.D.	0.050	mg/ kg	

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

Laboratory Chronicle Dilution Analysis CAT **Factor** Trial# Date and Time Analyst Method No. Analysis Name Tracy A Cole 1 02/06/2003 18:25 1 CALUFT-DRO/8015B, TPH - DRO CA LUFT (Soils) 05547 Modified 25 02/11/2003 15:57 Stephanie A Selis 1 N. CA LUFT Gasoline TPH-GRO - Soils 01726 Method 25 Stephanie A Selis 02/11/2003 15:57 SW-846 8021B 02160 BTEX/MTBE

3986872 Sample Number: SW

Collected: 01/29/2003 09:55 by AS

Account: 10992

Submitted: 01/30/2003 09:20

Reported: 02/13/2003 at 15:18

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

G-30-S-10-030129

Grab Soil

Facility# 206145

GRRC

800 Center St-Oakland

T0600102230 G-30

G3010 CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUFT Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	neak area com	parison of the s	stubte hacreta	mg/kg	25

TPH-GRO - Soils 01726

20000 800. mg/kg 16,000. n.a. 01727 TPH-GRO - Soils

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

02160 BTEX/MTBE

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: SW	3986872				
02174 Benzene	71-43-2	92.	4.0	mg/kg	20000
	108-88-3	1,000.	4.0	mg/kg	20000
02177 Toluene		- -	4.0	mg/kg	20000
02178 Ethylbenzene	100-41-4	480.			20000
02182 Total Xylenes	1330-20-7	1,900.	12.	mg/kg	
02199 MTBE	1634-04-4	150.	40.	mg/kg	20000
V2133 1112D					

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

State of California Lab Certification No. 2116

		Laboratory	Chron	icle Analysis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial#	Date and Time 02/05/2003 15:33	Analyst Tracy A Cole	Factor 25
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/12/2003 17:34	Steven A Skiles	20000
02160	BTEX/MTBE	Method SW-846 8021B	1	02/12/2003 17:34	Steven A Skiles	20000

Sample	Number:	SW	3986873		
Collected	01/29/2003	10:00	by AS	Account:	10992

Submitted: 01/30/2003 09:20

ChevronTexaco

Reported: 02/13/2003 at 15:18

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Soil Grab G-30-S-15-030129 Facility# 206145

GRRC

	ter St-Oakland T0600102230 G	-30				
G3015 CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refer hydrocarbons).	peak area com	parison of the sa	Mibre berrern	mg/kg	10
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time. Poor surrogate recoveries were needed to perform the analysis.	its were adjus: PH-GRO does no rior to the C6 observed for t	t include MTBE of (n-hexane) TPH-0	r other RO range	mg/kg	5000
02160	BTEX/MTBE					
02174 02177 02178	Benzene Toluene Ethylbenzene	71-43-2 108-88-3 100-41-4	27. 210. 85.	1.0 1.0 1.0	mg/kg mg/kg mg/kg	5000 5000 5000

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

3986873 Sample Number: SW

5000 mq/kg 3.0 1330-20-7 370. 02182 Total Xylenes 5000 mg/kg 10. N.D. 1634-04-4 02199

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.

The reporting limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

State of California Lab Certification No. 2116

Laboratory Chronicle Dilution Analysis CAT Factor Analyst Date and Time Trial# Method Analysis Name No. 10 02/05/2003 16:40 Tracy A Cole CALUFT-DRO/8015B, 1 05547 TPH - DRO CA LUFT (Soils) Modified 5000 Stephanie A Selis 02/04/2003 01:57 N. CA LUFT Gasoline 1 TPH-GRO - Soils 01726 Method 5000 Stephanie A Selis 02/04/2003 01:57 1 SW-846 8021B

Sample Number: 3986874 SW

Collected: 01/29/2003 11:15 by AS

Account: 10992

Submitted: 01/30/2003 09:20

BTEX/MTBE

ChevronTexaco

Reported: 02/13/2003 at 15:19

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-1A-S-16-030129

Soil Grab

Facility# 206145

GRRC

The analysis for volatiles was performed on a sample which was preserved

800 Center St-Oakland

T0600102230 MW-1A

141	λ.	~	
171		v	

02160

M1A16 CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
05547	TPH - DRO CA LUFT (Soils) According to the California LUF Range Organics was performed by to that of our #2 fuel oil refe hydrocarbons).	neak area com	parison of the se	mbre baccers	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	dts were adjus PH-GRO does no	t include MTBE of	other	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182	Benzene Toluene Ethylbenzene Total Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	0.013 0.033 0.0087 0.027 N.D.	0.0050 0.0050 0.0050 0.015 0.050	mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25
02199	MTBE	1034-04 4			•	

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Lancaster Laboratories Analytical Report 2425 New Holland Pike, Lancaster, PA 17603

Sample Number: SW 3986874

in methanol. The reporting limits were adjusted appropriately.

		Laboratory	Chron:	icle <u>Analy</u> sis		Dilution
CAT No. 05547	Analysis Name TPH - DRO CA LUFT (Soils)	Method CALUFT-DRO/8015B,	Trial# 1	Date and Time 02/05/2003 07:30	Analyst Tracy A Cole	Factor 1
01726	TPH-GRO - Soils	Modified N. CA LUFT Gasoline	1	02/04/2003 01:20	Stephanie A Selis	25
02160	BTEX/MTBE	Method SW-846 8021B	1	02/04/2003 01:20	Stephanie A Selis	25



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

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

N.D. none detected TNTC Too Numerous To Count IU International Units umhos/cm micromhos/cm C degrees Celsius meq millequivalents gram(s) ug microgram(s) mi milliliter(s) m3 cubic meter(s)	BMQL Below Minimum Quartitation Level MPN Most Probable Number CP Units cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit lb. pound(s) kg kilogram(s) mg milligram(s) liter(s) ul microliter(s)
---	---

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

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 of gas per liter of gas.

ppb parts per billion

Dry weight

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.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

	C.Butte Talling		
A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample Concentration exceeds the calibration range of the instrument	BEMNS	Value is <crdl, (msa)="" additions="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" th="" to="" used="" within="" ≥idi.=""></crdl,>
N P	Presumptive evidence of a compound (TICs only) Concentration difference between primary and	W	Compound was not detected Post digestion spike out of control limits
U XYZ	confirmation columns >25% Compound was not detected Defined in case narrative	+	Duplicate analysis not within control limits Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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

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Chevron California Region Analysis Request/Chain of Custo

Lancaster Laboratories Where quality is a science.			50 b	Ħ)	1	ct. #: _	<u>- , - ;</u> 7		- 100 (Samp		5 4	Rec	uest	ed	-		٦			•*
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Chevron California Region Analysis Request/Chain of Custo

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FACILITY#		Matrix -6145	Prose vietls		Pineervative Codes = Holi Tr≓ Thiosulfate = HNO1 B = NaOH = Hasox O = Other [] value reporting needed
Chevron PM Kerten Streetich Consultant/Office: 31.46. Gold Comp. Consultant Prj. Mgr.: Greg Gurss.	Drive, Surge 170		ACT III		Must meet lowest detection limits possible for 8260 compounds 021 MTBE Confirmation [Confirminghest Htt by 8280
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