October 8 2003

Ms. Karen Streich Chevron Texaco P.O. Box 6012 San Ramon, CA 94583



Re:

Well Installation Report/Site Summary

Chevron Station #9-0076 4265 Foothill Boulevard Oakland, California

Cambria Project No. 41D-1977



Dear Ms. Streich:

On behalf of ChevronTexaco (Chevron), Cambria Environmental Technology, Inc. (Cambria) submits the results of a subsurface investigation at the site referenced above and a comprehensive site summary that was requested related to a proposed property transfer. Cambria installed monitoring well C-10 to evaluate whether hydrocarbons from the adjacent BP station may have migrated and impacted groundwater beneath the site. The scope of work was outlined in Cambria's Additional Well Installation Workplan dated July 7, 2003. Presented below are site description details, investigation results, conclusions, and the site summary.

SITE BACKGROUND

The site is an operating Chevron service station located at the northwest corner of High Street and Foothill Boulevard in Oakland, California (Figure 1). The site is located on the East Bay Plain, approximately 1-mile northeast of the Oakland Estuary. The site is relatively flat at an elevation of approximately 35 feet above mean sea level. The nearest surface water body is Brooklyn Basin Tidal Canal approximately 0.75 miles southwest of the site. Shallow groundwater beneath the site flows to The surrounding land use is characterized by commercial and residential the southwest. developments. A Union 76 station (former BP) is located to the northeast across Foothill Blvd. and a former Shell station is located across High Street to the southeast. Both adjacent stations have ongoing environmental monitoring programs. Chevron purchased the subject property, developed it into a service station, and began operations in 1966. The station and all site facilities were reconstructed in 1987 into its current configuration. Product lines were upgraded in 1997.

Cambria **Environmental** Technology, Inc.

5900 Hollis Street Suite A Emetyville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

Current site facilities consist of a kiosk and five dispenser islands beneath a common canopy. Three 10,000-gallon double-walled fiberglass gasoline USTs are located in a common excavation directly southwest of the kiosk. Former USTs were located in the same excavation. A former used-oil UST

was located southwest of the kiosk and adjacent to the gasoline UST complex. The used-oil UST was removed and not replaced.

SITE HISTORY



May 1987, Tank Removal and Replacement: In May 1987, Blaine Tech Services removed three steel fuel USTs and one fiberglass used-oil UST. An unknown volume of excavated backfill material was aerated and reused onsite. Additional impacted soil was disposed of at a Chevron-approved non-hazardous landfill. Three 10,000-gallon double-walled fiberglass USTs were installed in the same excavation in June 1987. The used-oil UST was not replaced. Soil samples collected beneath the former fuel USTs contained maximum concentrations of TPHg and benzene at 21 mg/kg and 0.57 mg/kg, respectively. Soil samples collected beneath the former used-oil UST contained maximum concentrations of oil and grease (TOG) and benzene at 100 mg/kg and 5.0 mg/kg, respectively. Details are available in Blaine Tech's June 4, 1987 Sampling Report.

July 1987, Excavation: On July 8,1987, during excavation work to install a sign along Foothill Blvd., petroleum hydrocarbon odors and a small amount of water with a product sheen were reported in the 11-foot deep pit. Details are available in Blaine Tech's June 4, 1987 Sampling Report.

August 1987, Well Installation: In August 1987, Pacific Environmental Group, Inc. (PEG) advanced one boring C-A and drilled and installed four 3-inch diameter groundwater monitoring wells C-1 through C-4. No hydrocarbons were detected in soil from C-1. Maximum concentrations of TPHg and benzene in soil were detected in boring C-A at 3,600 mg/kg and 33 mg/kg, respectively. Maximum concentrations from all borings were detected from the first interval of soil samples collected between 8.5 to 10.5 feet below grade (fbg). Initial groundwater samples contained maximum concentrations of TPHg and benzene at 22,000 μg/l and 800 μg/l, respectively, in C-1 located near C-A. C-2 was reported to contain non-aqueous phase liquid (NAPL) at a measured thickness of >2.0 feet and was not sampled. Details are available in PEG's September 23, 1987 Soil and Groundwater Investigation report.

July/August 1990, Monitoring Well Installation: In July and August 1990, Weiss Associates (Weiss) drilled and installed 2-inch diameter wells C-5 through C-7. Additional well C-8 was subsequently installed in November 1990. C-5 was installed onsite and the remaining wells were installed offsite. No hydrocarbons were detected in soil from C-8. Maximum concentrations of TPHg and benzene in soil were detected at 54 mg/kg and 0.5 mg/kg in onsite boring C-5 at approximately 11 fbg. The first groundwater sampling event including all wells indicated that only offsite wells C-6 and C-7 contained impacts. The maximum concentrations of TPHg and benzene in offsite wells were 7,200 μg/l and

2,100 µg/l, respectively, in C-6. Weiss also conducted a well survey within a one-half mile radius of the site. The well survey identified 40 wells in the search area. Of these, two were cathodic protection wells, one irrigation, one industrial, and the remaining were monitoring wells. The irrigation well was reported <0.75 miles upgradient of the site. No domestic or municipal water supply wells were identified within the search area. Based on depth to water measurements, Weiss suggested that groundwater beneath the site may be perched. Depth to water in onsite well C-4 and offsite well C-6 differed by approximately 14 feet in 1990. Details are available in Weiss's December 18, 1990 Subsurface Investigation report.



November 1991, Groundwater Extraction: In an attempt to achieve hydraulic control of dissolved hydrocarbons, Weiss began operating a groundwater treatment system extracting groundwater from C-2 in November 1991. The system operated until October of 1993 and extracted approximately 11,200-gallons of impacted groundwater. System operations were terminated due to noise complaints from the neighbors and low flow rates. Details were obtained from Weiss's July 30, 1993 Monthly Monitoring Report.

July 1996, Well Installation: PEG installed 2-inch diameter well C-9 on July10, 1996, downgradient of C-7 in the Lucky's supermarket (now Albertson's) parking lot. No BTEX was detected in any soil sample. TPHg was detected at 1.2 and 1.1 mg/kg in soil collected at 10 and 20 fbg, respectively. These TPHg concentrations were characterized as unidentified hydrocarbons <C8. No hydrocarbons were detected in groundwater in C-9, including MTBE, during the first round of sampling. Details are available in PEG's October 2, 1996 Off-Site Monitoring Well installation Report.

July 1997, Product Line Upgrades: In July 1997, Gettler-Ryan (GR) collected soil samples during partial product piping replacement in conjunction with dispenser and UST containment upgrades. Five soil samples were collected, PL1 through PL5, at approximately 4 fbg. Hydrocarbons were detected in all samples. Maximum concentrations of TPHg, benzene, and MTBE were 210 mg/kg, 0.64 m/kg, and 10 mg/kg. Soil was excavated beneath the dispensers to accommodate new containment requirements and beneath the product piping. Approximately 46 tons of soil were excavated and disposed of. Details are available in GR's September 24, 1997, Soil Sampling During Product Dispenser Upgrade and Partial Product Line Replacement report.

1998-2000, Site conceptual Model and Risk-Based Corrective Action Plan: In May 1998, Delta Environmental Consultants, Inc. (Delta) completed a risk based corrective action (RBCA) site assessment using analytical results from soil and groundwater assessment activities. This was followed by a site conceptual model (SCM) and proposed RBCA plan. The SCM indicated that the primary potential exposure receptors are current and future residents of properties bound by the intersection of High and Bond Streets and, possibly, in the Lucky's parking lot along the southern side

of High street. The potential exposure medium is indoor inhalation of benzene vapors. The only complete exposure pathway is hydrocarbon volatilization from groundwater to ambient (outside) and Secondary potential exposure receptors are hydrocarbon indoor air (residential receptor). volatilization from soil or direct dermal contact from onsite residual impacted vadose zone soils in the vicinity of C-4, and, based on depth to groundwater (7 to 30 fbg), dermal contact with hydrocarbon impacted soil and groundwater the utility maintenance workers. Two separate risk scenarios for residential indoor air inhalation were calculated. One represented onsite conditions using data from C-2 through C-5. The second represented offsite conditions using data from C-6 through C-9. Based on the Tier 2 RBCA analysis, onsite and offsite representative concentrations exceeded the site-specific target levels (SSTLs) for benzene. The SSTLs for benzene were 0.0063 mg/kg in soil and 0.045 μ g/l in groundwater. Average onsite benzene concentrations in soil and groundwater were 1.2 mg/kg and 0.79 µg/l, respectively. Average offsite benzene concentrations in soil and groundwater (vicinity of C-4) were 0.021 mg/kg and 0.23 μg/l, respectively. Delta concluded the adjacent residence with a basement may be at risk for benzene inhalation and recommended that site specific soil-vapor samples should be collected to evaluate current soil vapor levels. Intrinsic bioremediation of soil and groundwater is occurring at the site and Delta additionally recommended continued use of ORC to enhance bioremediation and over-purging of C-1 through C-4. Details are available in Delta's July 28, 2000 Site Conceptual Model and Risk-Based Corrective Action Plan.



To complete our scope of work, Cambria installed groundwater monitoring well C-10. The investigation findings are presented below. The boring log is presented as Attachment A. The laboratory analytic report for soil is presented as Attachment B. The laboratory report for groundwater is presented as Attachment C. A copy of the Alameda County Public Works Agency well permit is presented as Attachment D. The Second Quarter 2003 Monitoring Report is presented as Attachment E.

Well Installation

Personnel Present: Cambria Staff Geologist Ian Robb conducted fieldwork under the direction

of California Registered Geologist Robert C. Foss, R.G. #7445.

Permits: Alameda County Public Works Agency permit #W030680

Drilling Company:

Gregg Drilling of Martinez, California, C57 No. 485165.

Drilling Date:

August 8, 2003.

Drilling Method:

Hollow-stem auger, 8-inch diameter.

Number of Wells:

One 2-inch-diameter well, C-10.

Lithologic Description: Soil encountered during this investigation consisted of fill, containing small to large cobbles and gravels, from the surface to approximately 4 fbg. This was underlain by silty sand, clayey silts and sands, and silty clay to the total

depth explored of 30 fbg.

Groundwater:

Historically, depth to groundwater has ranged from approximately 7 fbg to

30 fbg. Groundwater typically flows to the southwest.

Sampling Technique:

The boring was vacuum cleared to 8 fbg. Soil samples for analysis were collected at approximately 5-foot intervals using a split-spoon sampler lined with 2 x 6 inch brass sample tubes. Samples were properly sealed, logged on the chain-of-custody form, preserved on ice, and released to the

laboratory for analysis.

Soil Disposal:

Soil cuttings were placed in DOT approved 55 gallon drums and sampled for disposal profiling. Integrated Waste Management of Milpitas, California transported the soil cuttings to an appropriate Chevron-approved landfill.

Laboratory Analyses:

The analytic results are summarized in Tables 1 & 2. Selected soil and groundwater samples were analyzed for the following analytes:

- TPHg by EPA Method 8015M,
- BTEX and oxygenates (MTBE, TBA, TAME, ETBE, DIPE, Ethanol) and lead scavengers (1,2 DCA and EDB) by EPA Method 8260B.

Soil Analytic Results: No hydrocarbons were detected in any soil sample from the installation of C-10.

Groundwater Analytic Results: No TPHg, benzene, toluene, ethylbenzene, or ethanol were detected in initial groundwater sampling of C-10. MTBE and xylenes were detected at 14 µg/l and 0.5 µg/l,



HYDROCARBON DISTRIBUTION IN SOIL

The station was remodeled in 1987. The first generation of USTs were replaced at that time. The used-oil UST was also removed, but not replaced, thereby removing the potential source for future impacts in that vicinity. Maximum residual concentrations in soil beneath the USTs were 21 mg/kg TPHg and 0.57 mg/kg benzene. Maximum residual concentrations in soil beneath the used-oil UST were 100 mg/kg TOG and 5.0 mg/kg benzene. An undocumented volume of impacted soil was disposed of at that time, thus primary and secondary sources were removed. Between 1987 and 1996, ten borings, of which nine were constructed into monitoring wells, were installed on and offsite. No hydrocarbons were detected in soil in onsite well C-1 and offsite well C-8. Maximum historical concentrations of TPHg and benzene were detected in soil from onsite boring C-A, located northeast and upgradient of the dispenser islands, at 3,600 mg/kg and 33 mg/kg, respectively, in 1987. Hydrocarbons detected in soil samples from offsite wells were low and often appeared as detections of dissolved hydrocarbons in groundwater at or below the smear zone. Additional station upgrades occurred in 1997 replacing a portion of product piping and the installation of containment basins beneath the dispensers and UST fill ports. A maximum of 210 mg/kg TPHg, 0.64 mg/kg benzene, and 10 mg/kg MTBE were detected in samples collected beneath the former piping. Well C-10 was installed in June 2003 in the northeast corner of the site and no hydrocarbons were detected in any soil sample.



HYDROCARBON DISTRIBUTION IN GROUNDWATER

No groundwater was encountered during site redevelopment activities in 1987. Groundwater, reported as impacted with gasoline, was encountered in 1987 during the installation of a station sign, but was not sampled. Quarterly groundwater monitoring and sampling began in April 1989 with wells C-1 through C-4. Wells C-5 through C-7 were added to the schedule in September 1990, C-8 in November 1990, C-9 in August 1996, and C-10 in August 2003. Due to consistent low to non-detect concentrations, C-5, C-8, and C-9 were placed on an annual sampling frequency following the June 1997 event. Since 1989 all wells have been analyzed for TPHg and BTEX. MTBE analysis began in December 1995.

Historical maximum concentrations of TPHg, benzene, and MTBE in groundwater were 1,000,000 μg/l, (C-2, 6/98), 30,000 μg/l (C-2, 4/89), and 4,600 μg/l (C-4, 9/97), respectively. C-2 is located onsite downgradient and adjacent to the dispenser islands and down to crossgradient of the UST complex. Results of the third quarter 2003 event indicated maximum concentrations of TPHg, benzene, and MTBE remain in C-2 at 6,800 μg/l, 1,100 μg/l, and 1,300 μg/l, respectively. These current concentrations represent a significant decrease in overall concentrations. Additional remediation has been in the form of oxygen release compound (ORC). ORC socks were installed in

wells C-2 and C-6 in June 1998 and in C-1 and C-4 in June 2000. Although concentration trends over time appear to decrease steadily, concentrations have exhibited significant fluctuations that appear to be a direct result of fluctuating groundwater elevations.

Groundwater beneath the site has fluctuated a maximum of 21 feet (C-1). Wells C-5 through C-8 were installed in 1990, a period when groundwater levels were apparently lower than usual. This occurrence may have been due to drought or possibly human induced such as pumping of groundwater. Over several years, groundwater elevations increased in these wells and appeared to have stabilized by 1995. This resulted in submerged well screens during most subsequent sampling events. Well C-9, installed in 1996, was also screened too deep and is also typically submerged. This occurrence appears solely as a misjudgment in the groundwater and subsurface conditions during the time of installation. NAPL was never observed in these wells prior to becoming submerged. Dissolved hydrocarbon concentrations in these wells did not fluctuate dramatically after groundwater elevations increased above the screens. Given the wells are purged prior to sampling, the presence of NAPL would be observed as water is drawn down below the top of the screens. Hydrocarbons reported in these wells have never been at concentrations necessary for the formation of NAPL. These conditions suggest that all reported dissolved concentrations and trends observed in these wells should be representative of actual groundwater conditions regardless of well construction.

Non-aqueous phase liquids (NAPL) have been reported in onsite well C-2 in the past. The highest measured thickness was documented following its installation at >2 feet. NAPL was observed sporadically in this well primarily as a result of the fluctuating water table. Depth to water in C-2 has historically fluctuated from 7.13 to 27.61 fbg. NAPL last appeared in December 1996 at a measured thickness of 0.03-inches. Between 1989 and 1996, approximately 0.3-gallons of NAPL were removed from C-2. NAPL has not been observed since 1996.

It has been reported that groundwater beneath the site may be perched as onsite depth to water has differed by up to 14 feet from offsite locations. Additional reports have suggested, based on depth to water in adjacent site wells, that up to four waterbearing zones may exist. Upon review of regional geology, borings logs, and historical groundwater data, it appears that groundwater flows primarily through laterally discontinuous, relatively thin, moderate to high permeability zones that are bounded by relatively thick, continuous, low permeability soils. Each of the higher permeability zones appear at varying depths and thicknesses on and offsite and are composed of varying compositions. This suggests that each higher permeability zone may have differing head pressures causing the variability seen in depth to water across the plume length as it extends offsite. Chevron wells were installed in the first encountered waterbearing zone and do not appear to have encountered or penetrated a possible second waterbearing zone at depth. Based on this information, it appears that dissolved hydrocarbons exist in various shallow waterbearing zones with limited hydraulic communication and the existing network of wells have adequately defined the plume on and offsite.



CONCLUSIONS AND RECOMMENDATIONS

Based on system upgrades and a network of borings and monitoring wells, hydrocarbon impacts to soil and groundwater have been adequately defined on and offsite. System upgrades and over-excavation of impacted soil have removed the primary and secondary sources. Groundwater extraction, bailing of NAPL, and the addition of ORC has aided remediation of groundwater. Groundwater monitoring has occurred since April 1989 providing groundwater flow characteristics and defining the plume extent. Depth to groundwater measurements have shown that groundwater fluctuates significantly both seasonally and often over several year spans. As a result, concentrations have fluctuated, often dramatically, following very shallow groundwater periods. This suggests that a large smear zone may exist and is an ongoing source for future groundwater impacts. NAPL, previously observed in only C-2, however, has not been observed since December 1996. Dissolved hydrocarbons, as a result of NAPL in upgradient Union 76 well MW-5, appear not to have migrated across Foothill Blvd. as evident by recently installed onsite well C-10. Well C-10 defines the plume boundary to the southeast and only contained minor xylenes and MTBE concentrations.



Historical groundwater analytical results have exhibited an overall decreasing trend in TPHg, benzene, and MTBE concentrations. However, as hydrocarbons within the smear zone continue to act as a source for future groundwater impacts, it appears that decreasing trends will remain slow but consistent. ORC has aided in reducing levels in higher concentration wells. However, the zone of effective influence of ORC installed in individual wells is often limited to a small radius and once removed, rebound is likely to occur exhibiting increasing concentrations in those wells.

Groundwater has been previously suggested to exist at different zones on and offsite. However, it does not appear that these zones underlie each other but are laterally discontinuous zones at various depths and are underlain by low permeability soil inhibiting vertical migration. Based on all available site data, it appears that impacts are limited to shallow soil and groundwater and further vertical delineation is not warranted.

Current concentrations of benzene remain above the SSTLs in the vicinity of the adjacent residential building. As a result, additional soil-vapor probes may be required to monitor actual soil-vapor concentrations near the residential structure to determine if an actual risk to indoor benzene inhalation exists. If actual soil-vapor concentrations exceed the SSTL for benzene, additional work may be necessary to mitigate vapor intrusion to the residential structure. The investigation and possible subsequent system installation and operation may require access to the site for an unknown period of time.

Current concentrations and site conditions suggest that groundwater monitoring will likely be required for several more years. Groundwater trends, although fluctuating, do not appear to indicate any new releases of petroleum hydrocarbons to the subsurface. Spikes in concentrations are likely to occur in

the future and would need to be evaluated against past increases and baseline concentrations to determine if the increases are groundwater elevation related (smear zone) or the result of a new release. In addition, the removal of ORC, or non-effectiveness of spent ORC socks, may also cause limited rebound of concentrations and should not be concluded as representing a new release.

CLOSING

Cambria appreciates the opportunity to work with you on this project. Please contact Albert Simmons at (510) 420-3353 if you have any questions or comments.



Sincerely,

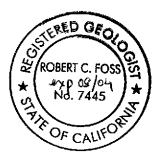
Cambria Environmental Technology, Inc.

Ian Robb Staff Geologist

Albert Simmons Project Geologist

Robert C. Foss, R.G. #7445 Senior Project Geologist

Robert C. For



Figures:

1 - Vicinity Map

2 - Site Map

Tables:

1 - Analytic Results for Soil

2 - Analytic Results for Groundwater

Attachments:

A - Boring Log

B - Laboratory Analytic Report for Soil

C - Laboratory Analytic Report for Groundwater

D - Alameda County Public Works Agency Well Installation Permit

E - Second Quarter 2003 Monitoring Report

F - Copies of Environmental Reports



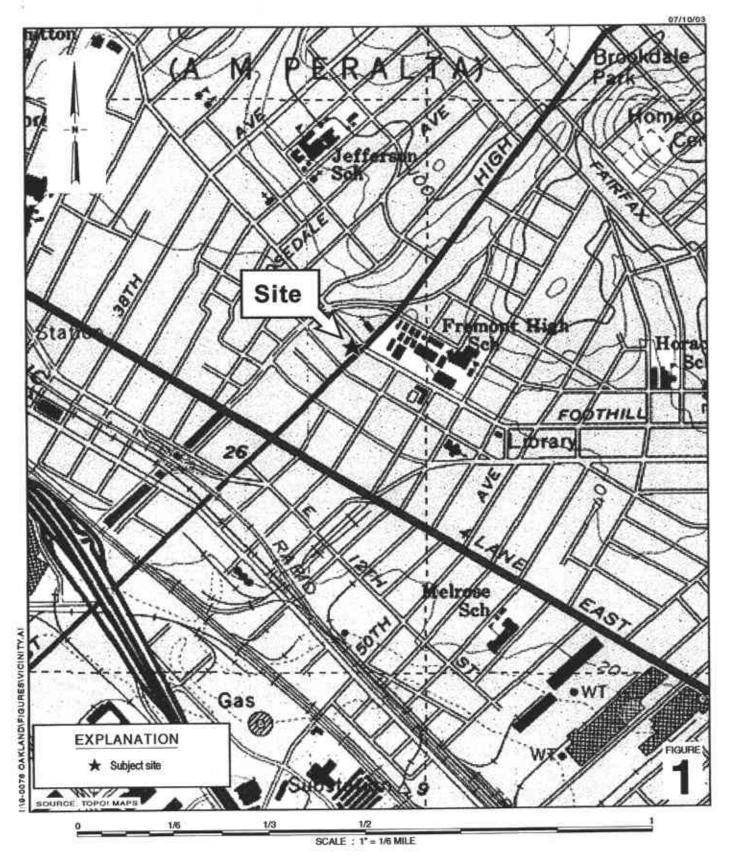
CC:

Mr. Amir Gholami, Alameda County Health Care Services Agency,

Dept. of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502

(w/o Attachment F)

I:\9-0076 Oakland\9-0076 add'l investigation for divestment\9-0076 summary-report.doc



Chevron Service Station 9-0076

4265 Foothill Boulevard Oakland, California



Vicinity Map



Table 1. Analytic Results for Soil - Chevron Station No. 9-0076,4265 Foothill Boulevard, Oakland, CA

Sample	Sample	Sample	TPHg	В	T	E	X	MTBE*
ID	Date	Depth (fbg)	1/25	Concentra	tions reported in mi	illigrams per kilogra	ım - mg/kg	
C-10@10,	8/8/2003	10	<1.0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
C-10@15'	8/8/2003	15	<1.0	< 0.001	< 0.001	<0.001	< 0.001	< 0.001
C-10@20'	8/8/2003	20	<1.0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
C-10@ 25 '	8/8/2003	25	<1.0	<0.001	< 0.001	< 0.001	< 0.001	< 0.001
C-10@30'	8/8/2003	30	<1.0	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

(MTBE, TBA, ETBE, DIPE, ethanol, 1,2- DCA and EDB) by EPA Method 8260B

<x = Not detected above method detection limit

* no other analytes detected under EPA Method 8260B

fbg = Feet below grade

Table 2. Analytic Results for Groundwater - Chevron Station No. 9-0076,4265 Foothill Boulevard, Oakland, CA

Sample	Sample	TPHg	В	T	E	X	MTBE	Notes
ID _	Date			Concentration	s reported in micro	grams per liter - μg	Л	
C-1	9/9/2003	290	4.0	<1.0	1.0	3.0	710	
C-2	9/9/2003	6,800	1,100	9.0	83	47	1,300	
C-3	9/9/2003	<50	2.0	< 0.5	<0.5	<0.5	160	
C-4	9/9/2003	690	8.0	0.8	5.0	5.0	30	
C-5	9/9/2003	-	2	-	-		-	Monitored only
:-6	9/9/2003	-	-	-	-	-	-	Inaccessible
2-7	9/9/2003	3,900	310	9.0	110	130	5.0	
C-8	9/9/2003	-	-	•	•	-	-	Monitored only
0-9	9/9/2003	-	-	-	<u></u>	•	-	Monitored only
C-10	9/9/2003	<50	< 0.5	<0.5	< 0.5	0.5	14	

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) and MTBE by EPA Method 8260B

<x = Not detected above method detection limit

fbg = Feet below grade



ATTACHMENT A

Boring Log

BORING/WELL LOG



Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

C-10 **CLIENT NAME BORING/WELL NAME** Chevron Products Company JOB/SITE NAME **DRILLING STARTED** 08-Aug-03 DRILLING COMPLETED 08-Aug-03 4265 Foothill Boulevard, Oakland CA LOCATION WELL DEVELOPMENT DATE (YIELD) 09-Sep-03 PROJECT NUMBER 41D-1977 38.69 ft above msl **GROUND SURFACE ELEVATION** DRILLER Greaa Drillina TOP OF CASING ELEVATION 38.37 ft above msl **DRILLING METHOD** Hollow-stern auger SCREENED INTERVAL 10 to 30 fbg BORING DIAMETER 8" DEPTH TO WATER (First Encountered) 24.0 fbg (08-Aug-03) I. Robb **LOGGED BY DEPTH TO WATER (Static)** 17.18 fbg (09-Sep-03) **REVIEWED BY** B. Foss

REMARKS Well installed with limited access drill rig (no blow counts available) CONTACT DEPTH (fbg) TPHg (mg/kg) GRAPHIC SAMPLE ID BLOW U.S.C.S. DEPTH EXTENT (gg) LITHOLOGIC DESCRIPTION WELL DIAGRAM Concrete Vac cleared to 8 fbg Portland Type MI Bentonite Seal 8.0 9.0 Monterey Silty SAND with clay: Light Brown; dry; 50% sand, 35% Sand #2/16 NA SM C-10@10' <50 silt, 15% clay, low plasticity, low permeability. 10 10.5 NELL LOG (TPH-G) 119-0076 GAKLANDI9-0076 ADDL INVESTIGATION FOR DIVESTIMENTI9-0076 GPJ DEFAULT GDT 10/8/03 14.0 Silty Clayey SAND: Light Brown; dry; 40% sand, 35% NA C-10@15' SM silt, 20% clay, 5% gravel; moderate plasticity, low <50 15.5 permeability. 19.0 Clayey Sandy SILT: Light Brown; dry; 40% silt, 35% NA SC C-10@20' < 2"-diam., <50 clay, 20% sand, 5% gravel; high plasticity, low 20.5 0.010" Slotted permeability. Schedule 40 PVC ▽ 24.0 Clayey Sandy SILT: Light Brown; dry; 40% silt, 35% clay, 20% sand, 5% gravel; high plasticity, low NA SC C-10@25" <50 25 25.5 28.5 Silty CLAY: Light Brown; dry; 65% clay, 35% silt; high CL <50 C-10@30" plasticity, low permeability. 30:0 NA Bottom of Boring @ 30 fba PAGE 1 O



ATTACHMENT B

Laboratory Analytic Report for Soil



AEPRINT

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310

> San Ramon CA 94583 925-842-8582

> > Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 862623. Samples arrived at the laboratory on Saturday, August 09, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number		
C-10-S-10-030808	NA	Soil	4098257		
C-10-S-15-030808	NA	Soil	4098258		
C-10-S-20-030808	NA	Soil	4098259		
C-10-S-25-030808	NA	Soil	4098260		
C-10-S-30-030808	NA	Soil	4098261		

1 COPY TO

ChevronTexaco

Attn: Mr. Ian Robb

Questions? Contact your Client Services Representative Alison M O'Connor at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger

Sr. Chemist/Coordinator





BEPRINT

Page 1 of 2

Lancaster Laboratories Sample No. 4098257

Collected:08/08/2003 10:30

by IR

Account Number: 10880

Submitted: 08/09/2003 10:20

ChevronTexaco

Reported: 08/27/2003 at 18:23

6001 Bollinger Canyon Rd L4310

Discard: 09/27/2003

C-10-S-10-030808

NA

San Ramon CA 94583

Facility# 90076

CETR

4265 Foothill Blvd

T0600100339 C-10

Soil

C610-

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
	one 12			Limít		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was p					
	in methanol. The reporting lim: The reported concentration of T	its were adjus	ted appropriately	othor		
	gasoline constituents eluting p	rior to the C6	t include mibs of Cn-beyane) TPM-C	PO range		
	start time.	rior to the co	(II Mexane) III o.	no range		
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64-17-5	N.D.	0.20	mg/kg	1
	•					
07361	BTEX+5 Oxygenates+EDC+EDB					
00016					1-	_
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.001	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.001	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT Analysis Name No. 01725

TPH-GRO - Soils

Method N. CA LUFT Gasoline Analysis

Date and Time 08/11/2003 22:29 1

Analyst Steven A Skiles Dilution **Factor** 25

method







AEPRINT

Page 2 of 2

Lancaster Laboratories Sample No. SW 4098257

Collected:08/08/2003 10:30 by IR

Account Number: 10880

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

ChevronTexaco
6001 Bollinger Canyon Rd L4310

Discard: 09/27/2003

C-10-S-10-030808

Soil

San Ramon CA 94583

Facility# 90076

CETR

4265 Foothill Blvd

T0600100339 C-10

NA

\sim	-	7	\wedge	
Ĺ.,	n	.1	U	_

COIO	-					
01428	Methanol and Ethanol	SW-846 8015B	1	08/20/2003 20:20	Lisa A Johnson	1
		(modified)				
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	08/15/2003 04:35	Anastasia Papadoplos	1.01
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/15/2003 02:34	Anastasia Papadoplos	n.a.
00380	Direct Injection Solids	SW-846 8015B	1	08/20/2003 14:00	Lisa A Johnson	1
	Ext					
01150	GC VOA Soil Prep	SW-846 5035	1	08/11/2003 11:25	Steven A Skiles	n.a.
	·					



AEPRINT

Page 1 of 2

Lancaster Laboratories Sample No. SW 4098258

Collected:08/08/2003 10:37

by IR

Account Number: 10880

ChevronTexaco

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

Discard: 09/27/2003

C-10-S-15-030808

NA

Soil

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

Facility# 90076

CETR

4265 Foothill Blvd

T0600100339 C-10

C615-

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	nits were adjus 'PH-GRO does no	ted appropriately tinclude MTBE of	1.0 s preserved y. r other	mg/kg	25
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64-17-5	N.D.	0.20	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.001	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.001	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mq/kq	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.

Analysis Name 01725

TPH-GRO - Soils

Method N. CA LUFT Gasoline

method

Analysis Trial# Date and Time 08/11/2003 23:07

Analyst Steven A Skiles Dilution Factor 25



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681

Analysis Report





Page 2 of 2

Lancaster Laboratories Sample No. SW 4098258

Collected:08/08/2003 10:37

by IF

Account Number: 10880

ChevronTexaco

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

Discard: 09/27/2003

C-10-S-15-030808

NA

Soil

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

Facility# 90076

CETR

4265 Foothill Blvd

T0600100339 C-10

C6	1	5	_

COID-						
01428	Methanol and Ethanol	SW-846 8015B	1	08/20/2003 20:59	Lisa A Johnson	1
		(modified)				
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	08/15/2003 05:01	Anastasia Papadoplos	0.99
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/15/2003 02:37	Anastasía Papadoplos	n.a.
00380	Direct Injection Solids	SW-846 8015B	1	08/20/2003 14:00	Lisa A Johnson	1
	Ext					
01150	GC VOA Soil Prep	SW-846 5035	1	08/11/2003 11:24	Steven A Skiles	n.a.





Page 1 of 2

Lancaster Laboratories Sample No. SW 4098259

Collected:08/08/2003 10:42

by IR

Account Number: 10880

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

6001 Bollinger Canyon Rd L4310

Discard: 09/27/2003

C-10-S-20-030808

NA

Soil

San Ramon CA 94583

ChevronTexaco

Facility# 90076

CETR

4265 Foothill Blvd

T0600100339 C-10

C620-

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	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 appropriately t include MTBE or	y. r other	mg/kg	25
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64-17-5	N .D.	0.20	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.001	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.001	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT
No. Analysis Name
01725 TPH-GRO - Soils

Method N. CA LUFT Gasoline Analysis
Trial# Date and Time
1 08/11/2003 23:45

Analyst Steven A Skiles Dilution Factor 25

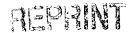
method



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681







Page 2 of 2

Lancaster Laboratories Sample No. SW 4098259

Collected:08/08/2003 10:42

Account Number: 10880

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

Discard: 09/27/2003

C-10-S-20-030808

ChevronTexaco

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

NA

Soil CETR

Facility# 90076 4265 Foothill Blvd T0600100339 C-10

C620~

C020"						
01428	Methanol and Ethanol	SW-846 8015B	1	08/20/2003 21:12	Lisa A Johnson	1
		(modified)				
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	08/15/2003 05:28	Anastasia Papadoplos	1 01
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/15/2003 02:42	Anastasia Papadoplos	n,a.
00380	Direct Injection Solids	SW-846 8015B	1	08/20/2003 14:00	Lisa A Johnson	1
	Ext					
01150	GC VOA Soil Prep	SW-846 5035	1	08/11/2003 11:23	Steven A Skiles	n.a.



ALPRINT

Page 1 of 2

4098260 Lancaster Laboratories Sample No.

Collected:08/08/2003 10:52

by IR

Account Number: 10880

Submitted: 08/09/2003 10:20

ChevronTexaco

Reported: 08/27/2003 at 18:23

6001 Bollinger Canyon Rd L4310

Discard: 09/27/2003

C-10-S-25-030808

NA Soil San Ramon CA 94583

As Bossined

Facility# 90076

CETR

4265 Foothill Blvd

T0600100339 C-10

C625~

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
				Limit		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was	-	-			
	in methanol. The reporting lim	-	* * *	-		
	The reported concentration of T					
	<pre>gasoline constituents eluting p start time.</pre>	rior to the C6	(n-hexane) TPH-	GRO range		
	start time.					
01428	Methanol and Ethanol					
	7.30.74.701 Gird Borranol					
01429	Ethanol (by Direct Injection)	64-17-5	N.D.	0.20	mg/kg	1
	•					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.001	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.001	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	и.р.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT Analysis Dilution Factor Trial# Date and Time Analyst No. Analysis Name Method 01725 TPH-GRO · Soils N. CA LUFT Gasoline 1 08/12/2003 00:23 Steven A Skiles 25 method









Page 2 of 2

Lancaster Laboratories Sample No. SW 4098260

Collected:08/08/2003 10:52

by IR

Account Number: 10880

6001 Bollinger Canyon Rd L4310

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

Discard: 09/27/2003

C-10-S-25-030808

NA

Soil

San Ramon CA 94583

ChevronTexaco

Facility# 90076

CETR

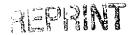
4265 Foothill Blvd

T0600100339 C-10

C625-

0023						
01428	Methanol and Ethanol	SW-846 8015B	1	08/20/2003 21:25	Lisa A Johnson	1
		(modified)				
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	08/15/2003 05:54	Anastasia Papadoplos	0.99
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/15/2003 02:45	Anastasia Papadoplos	n.a.
00380	Direct Injection Solids	SW-846 8015B	1	08/20/2003 14:00	Lisa A Johnson	1
	Ext					
01150	GC VOA Soil Prep	SW-846 5035	1	08/11/2003 11:22	Steven A Skiles	n.a.





Page 1 of 2

4098261 Lancaster Laboratories Sample No. SW

Collected:08/08/2003 10:56

by IR

Account Number: 10880

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 09/27/2003

C-10-S-30-030808

4265 Foothill Blvd

Soil NA

San Ramon CA 94583

CETR

Facility# 90076

T0600100339 C-10

C630-

CAT

No.

01725

				As Received		D. 2
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was prin methanol. The reporting liming The reported concentration of Transcoline constituents eluting prestart time.	its were adjust PH-GRO does not	ed appropriately. : include MTBE or	other		
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64-17-5	N . D .	0.20	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.001	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.001	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N D	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1 -
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

Laboratory Chronicle

Analysis

Date and Time

Analyst

Dilution Factor

TPH-GRO - Soils method

Method N. CA LUFT Gasoline

08/12/2003 01:01 1

Steven A Skiles

25



Analysis Name





AEPRINT

Page 2 of 2

Lancaster Laboratories Sample No. SW 4098261

Collected:08/08/2003 10:56

by IR

Account Number: 10880

Submitted: 08/09/2003 10:20

Reported: 08/27/2003 at 18:23

Discard: 09/27/2003

C-10-S-30-030808

NA

Soil

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

Facility# 90076

4265 Foothill Blvd T0600100339 C-10

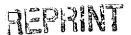
CETR

C630~

C630-						
01428	Methanol and Ethanol	SW-846 8015B (modified)	1	08/20/2003 21:38	Lisa A Johnson	1
07361	BTEX+S Oxygenates+EDC+EDB	SW-846 8260B	1	08/15/2003 06:20	Anastasia Papadoplos	1
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/15/2003 02:48	Anastasia Papadoplos	n.a.
00380	Direct Injection Solids Ext	SW-846 8015B	1.	08/20/2003 14:00	Lisa A Johnson	1
01150	GC VOA Soil Prep	SW-846 5035	1	08/11/2003 11:21	Steven A Skiles	n.a.







Page 1 of 3

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 862623

Reported: 08/27/03 at 06:23 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 03220A34B	Sample nur	mber(s): 4	098257-40	98261				
TPH-GRO - Soils	N.D.	1.0	mg/kg	93		70-130		
Batch number: 032320000A	Sample nur	mber(s): 4	098257-409	98261				
Ethanol (by Direct Injection)	N.D.	200.	ug/kg	98		85-121		
Batch number: X032251AB	Sample num	mber(s): 4	098257-409	98261				
Methyl Tertiary Butyl Ether	N.D.	1.	ug/kg	104		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	97		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	99		71-124		
t-Amyl methyl ether	N.D.	1.	ug/kg	98		70-122		
t-Butyl alcohol	N.D.	20.	ug/kg	97		46-158		
Benzene	N.D.	1.	ug/kg	93		83-118		
1,2-Dichloroethane	N.D.	1.	ug/kg	100		76-126		
Toluene	N.D.	1.	ug/kg	86		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	91		77-114		
thylbenzene	И. D.	1.	ug/kg	87		82-115		
/lene (Total)	И.Д.	1.	ug/kg	89		82-117		

Sample Matrix Quality Control

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	RPD Max
Batch number: 03220A34B	Sample	number	(s): 409825	7-40982	61				
TPH-GRO - Soils	92	82	70-130	11	30				
Batch number: 032320000A	Sample	number	(s): 409825	7-40982	61				
Ethanol (by Direct Injection)	93	92	73-109	1	20				
Batch number: X032251AB	Sample	number	(s): 409825	7-40982	61				
Methyl Tertiary Butyl Ether	87	91	57-136	4	30				
di-Isopropyl ether	70	83	55-132	17	30				
Ethyl t-butyl ether	75	86	58-127	14	30				
t-Amyl methyl ether	78	88	58-126	12	30				
t-Butyl alcohol	81	96	14-185	17	30				
Benzene	61	76	52-141	21	30				
1,2-Dichloroethane	75	84	57-137	12	30				
Toluene	58	71	53-137	20	30				
1,2-Dibromoethane	74	83	61-125	12	30				
Ethylbenzene	56	69	50-136	21	30				

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







Page 2 of 3

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 862623

Reported: 08/27/03 at 06:23 PM

Sample Matrix Quality Control

21

MSD MS/MSD RPD BKG DUP

Analysis Name Xylene (Total)

%REC &REC Limits 71 58 47-139

MS

RPD MAX 30

Conc

Conc RPD

DUP

Dup RPD Max

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils

Batch number: 03220A34B

Trifluorotoluene-F

4098257 99 4098258 95 4098259 99 4098260 93

4098261 98 lank 102 105 ĽS.

MS 90 MSD 91

Limits:

66-117

Analysis Name: Methanol and Ethanol

Batch number: 032320000A

Acetone

4098257 94 4098258 97 4098259 106 4098260 101

4098261 112 Blank 105 LCS 103 MS 9B

Limits:

MSD

55-127

98

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch number: X032251AB

Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

4098257

92

92

94

91

*- Outside of specification

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

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









Page 3 of 3

Quality Control Summary

Client N	lame: ChevronT	exaco	Group Number: 862623						
Reported	l: 08/27/03 at	06:23 PM							
		Surr	ogate Quality Contr	:ol					
4098258	94	97	92	91					
4098259	91	93	94	91					
4098260	93	96	93	93					
4098261	93	98	95	91					
Blank	90	88	95	92					
LCS	95	93	90	94					
MS	95	94	92	94					
MSD	92	92	91	94					
Limits:	70-129	70-121	70-130	70-128					

*- Outside of specification



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

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

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

| Acct. #: 10380 | Sample #: 4 058257-61

													1	hal	yses	Re	ques	ted						
Facility #: 9-00	76													Pres	erva	tior	Cod	es				rvative C		
Site Address:	5 F									_		dnue									H = HCI N = HNO ₃ S = H ₂ SO ₄	T = Th B = N	аОН	
Chevron PM:				onsultant: <u>CA</u>	misk/	<u> </u>			ers	_		Silica Gel Cleanup									☐ J value re			
Consultant/Office: EMERXVILLE									tain	8260 🔯 8021 🗆		Ça G									☐ Must mee	-		n limits
Consultant Prj. Mgr.: Rt. Lb								S	12 12								ŀ	İ		possible fo	r 8260 cor	npour	nds	
Consultant Phone #:	(510)	> 430	325	Fax#: <u>(574</u>)	420-4	170			jo	260	GRO	8		,,	7421			Ì			8021 MTBE			_
_mpler:	Role	i.						l e	nbe		8	8	_	age							☐ Confirm hi	•		0
Service Order #:			_ Noi	n SAR:				posi	3 Z	Ĭ₩	715 N	315 N	SS	Oxygenates	420 [Ì			Run	-		t hit
Field		Repeat	Тор	Voon North Day		New	Grab	Composite	Total Number of Containers	BTEX + MTBE	TPH 8015 MOD	FPH 8015 MOD DRO	8260 full scan		-ead 7420	-*		Ì			Run			
Point Name	Matrix	Sample	Depth	Year Month Day のろつまつま		rieiu Ft.	Ť	Ť	7	X		<u> </u>	80	,		X			+	\Box	Comments	/ Remar	ks	
1-68151				03-08-08				† · · ·	l i	ì	i					1			1		thoung acci		1/	
C-6 P 20				03-08-08								Ī.,.,		<u> </u>							TRA			
C-6 825'				03-08-08								ļ. <u>.</u> .	ļ			1			_		TAINE			
C-16 30'	ļ			03-08 708	10:54		ļ	ļ	V	V	V					1					ETBE			
-	ļ		 		··· ·					1					ļ	-					DIPE			
								-	-		 	 -	-							├	二十八八八			
		 						 	<u> </u>	 -				ļ	 				- 		العمل مريد	بالمان والماني	-1_j	2024
	 		 				-	_			 		1								adEDI		· ′	- 1
			1																		by 83			
																					17 37	(CC)		
				<u> </u>			Ļ	<u> </u>					<u> </u>	L								1 = .	ı	
Turnaround Time Rec	uested	(TAT) (ple	ase circl	e)	Relinquisted	1 by						1	Date 8/0	~ /	Tim 43			ved by حسمت		. 1	•	Date	2	Time /
810. TÁT	72 hour	- 4	18 hour		Relinquished	d by:						1	Date	,	Tim	8	Recei	ved by	:		·	Date	۱, ۱	Time
24 hour	4 day	5	day		Ber	<u>Solo</u>			سهدو	ya.		6	18/2	2/	45		Riv	ters	رور			8/8		
Data Package Options	s (please	circle if requ	uired)		Relinquisher	d by:							Date	-	Tim	g	Recei	ved by	۰: ۰			Date		Time
-	ype I – Fu] Coelt De	ıll Hiverable no	ot neede	d -	Relinquishe	by Comm	nerci		rrier: ther	N	 // _C	~Q^					Recei	(od px		n /1]	New	TO Bate	<u>ک</u> ک	Time
Disk		·			Temperature	Upon Re	ceipt		1.1	2_(C°						Custo	dy Sea				lo		U

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laborator Where quality is a science.		For Lancaster Laboratories use only Acct. #:SCR#:SCR#:																			
Vvnerė quality is a science.											F	nal	/ses	Re	ques	ed					
Facility #: 9-0076										· · · · · · · · · · · · · · · · · · ·		Pres	erva	tior	Cod	es			Preserva		1
Site Address: 4365 だめた								ļ	+	dnue									H = HCI N = HNO ₃ S = H ₂ SO ₄	T = Thios B = NaOl O = Othe	Н
Chevron PM: Konen Street		Donsultant: <u>CA</u>	M183 K/1				SIS			Gel Cleanup									☐ J value report		
Consultant/Office: <u>EMEアメリモ</u>							Containers	8021		8									☐ Must meet lov	•	
Consultant Prj. Mgr.: R.				Conf	1		漂			_			-			possible for 8					
Consultant Phone #: <u>イクェンン い</u>	17 O			ŏ	8260	GRO	[2 2			21 🗀						8021 MTBE Cor	firmation				
Sampler: Face Pale			a l	nber	١~		9	_	nates] 7421			İ			☐ Confirm highe	•	26C			
Service Order #:	□ No	n SAR:				osit	ž	MTB	15 M	15 M	Sca	Oxygenates					☐ Confirm all hits by 8260 ☐ Run oxy's on highest hit		at hit		
Field Repe	at Top		Time	New	Grab	Composite	Total Number	BTEX + MTBE	TPH 8015 MOD	TPH 8015 MOD DRO Silica	8260 full scan		Lead 7420 [Ž,		ĺ			Run ox)		
	le Depth	Year Month Day		Field Pt.	9	0	 -	<u>88</u>	=	=	82	!	Lee .	*					Comments / F		
10'		117-68-63					· ·		N ₁					,			-		Comments / F		
C-106 15'		C3-Cx-08					1							1			-				
CAOP 20'		- 2 · 5 · 5 · 5 · 5 · 5			-	1	-	1-	+	 		-		d _a							
C10 6 30		3.68 S		<u> </u>		† ;	1	Ŵ.	t.		†			V		_	\dagger		TANK.		
4		1	<u> </u>						1												
) ŧ į ł l E		
all C-6 Should be																			THANK C	_ / 4	V
Sporte be	•				.	ļļ		<u> </u>	<u> </u>	<u> </u>	ļ	.,							entrocelly ex		rd Hall
C-19//					 	 	· · · · · · ·	ļ	<u> </u>	<u> </u>	<u> </u>			ļ					and entry)		
			<u> </u>																	9.4	
20101			<u> </u>		<u> </u>									_							
		<u> </u>	Relinquishe	d by	<u> </u>	<u> </u>		<u> </u>	<u> </u>	┰	Date		Time		Pecai	ved by:			<u> </u>	Date	Time
Turnaround Time Requested (TAT)	please circ	le)	remiquarie	u by.		, esta					Date								Address of the second of the second	Date	Time
STD. TAT 72 hour	48 hour	†	Relinquishe	d by:							Date		Time			ved by:		-		Date	Time
24 hour 4 day	and the second s																				ļ
Data Package Options (please circle if	ata Package Options (please circle if required)										Date		Time	e	Recei	ved by:				Date	Time
QC Summary Type I – Full		}	Relinguishe	d by Comm	ercia	al Car	rier:								Recei	ved by:				Date	Time
Type VI (Raw Data)	e not need	ed	UPS	FedEx			her_							J. 1880							
Disk	VIP (RWQCB)								c°						Custody Seals Intact? Yes No						



ATTACHMENT C

Laboratory Analytical Report for Groundwater



September 24, 2003

G-R #386495

TO:

Mr. Robert Foss

Cambria Environmental Technology, Inc.

5900 Hollis Street, Suite A Emeryville, California 94608

FROM:

Deanna L. Harding

Project Coordinate

Gettler-Ryan Inc. V 6747 Sierra Court, Suite J

Dublin, California 94568

RE: Chevron Service Station

#9-0076

4265 Foothill Blvd. Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
1	Field Data Sheets & Laboratory Analytical Results Well Development Event of September 9, 2003

COMMENTS:

Pursuant to your request, we are providing you with copies of the Field Data Sheets and Laboratory Analytical Results for the Well Development Event.

Enclosures

cc: Ms. Karen Streich, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583

GROUNDWATER MONITORING SUMMARY SHEET

FACILITY: Ch	evronTexaco #9	-0076	JOB #: 38	6495	
ADDRESS: 42	65 Foothill Blvd.		DATE:	9.9.03	(inclusive)
CITY: Oa	kland, CA		SAMPLER:	FT	
Well ID	Total Well Depth	Depth to Water	Product Thickness (ft)	List Item IN Well	Additional Comments
C-1	38.05	16.75	Ø	ORC	24.0
C-2	36.55	21.14		ORC	17.5
C-3	39.51	20.70			21.0
C-4	39.52	20.79		ORK	21.0
C-5	44.11	20.68			"MONITOURD ONLY
C-6	53.73				THACCESSIBLE
C-7	50.93	31-81	<u> </u>		10.0
C-8	56.32	26.11			NON ITMED ONLY
C-9	45.18	25.80			
C-10	29.98 (30.1	(a) 17.18			22.0
					115.5 TOTAL
					PHILLE
				· · · · · · · · · · · · · · · · ·	
Comments					
					•

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #	Client/Facility #: ChevronTexaco #9-0076		. •		er: 386495			
Site Address:	4265 Foothill	Blvd.		Event Date:	9.9.03			
City:	Oakland, CA	<u> </u>		Sampler:	F٢		_	
Well ID	C-10	Date	e Monitored:	9.9.03	Well Condition:	NEW	<u>س</u>	
Well Diameter	2 in.						\neg	
Initial Total De	pth 29.98 ft.		Volume	3/4"= 0.02) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80		
Final Total De	oth 30.00 ft.		Factor (VF) 4 - 0.86	3 - 1.02	12 + 3.00		
Depth to Wate	г 17.18 ft.							
	12.80 xVF	.17	= 2.17 x16) (case volume) = Es	timated Purge Volume:	21.76_9	jal.	
.	_				Time Started:		(2400	
Purge Equipmen	t:		npling Equipment	/	Time Bailed:		(2400	
Disposable Bailer			posable Bailer		Depth to Product: Depth to Water:		1	
Stainless Steel Ba	iller		ssure Bailer		Hydrocarbon Thickne	:SS:		
Stack Pump			crete Bailer		Visual Confirmation/D			
Suction Pump Grundfos		Oth	er:	- _	Skimmer / Absorbant	Sock (circle	one)	
Other:					Amt Removed from 5			
					Amt Removed from V	Vell:		
					Product Transferred t	:0:		
Start Time (pu Sample Time/ Purging Flow I Did well de-wa	Date: <u>5(15</u> / Q Rate: <u>2.0 gpm.</u>	Sedime	Water Color: ent Description: ne:		V. LT. The Odor:	No	_	
Sample Time/ Purging Flow	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0	. 9 . 03 Sedime	ent Description:			ORP (mV)		
Sample Time/ Purging Flow Did well de-wa Time (2400 hr. 4:44 4:44 4:45 4:54 4:54	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 19.8	9.03 Sedime If yes, Tim pH 7.89 7.18 7.15 7.16 7.16 7.61 7.70 7.77	Conductivity (umhos/cm) 135.6 127.6 123.0 119.9 117.7 139.8 160.7	Volume:	gal.	ORP		
Sample Time/ Purging Flow Did well de-wa Time (2400 hr. 4:44 4:44 4:45 4:54 4:54	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 19.8	9.03 Sedime If yes, Tim pH 7.89 7.18 7.15 7.16 7.16 7.61 7.70 7.77	cent Description: Conductivity (umhos/cm) 135.6 127.6 123.0 119.9 117.7 139.8 160.7 162.8 157.6 155.4	Volume: Temperature (CF) 20.7 20.5 20.0 19.8 19.8 20.0 20.1 20.4 20.3 DRMATION LABORATORY	gal. D.O. (mg/L)	ORP (mV)		
Sample Time/ Purging Flow Did well de-wa Time (2400 hr. 4:44) 4:44 4:44 4:54 4:54 4:54	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8 22.0	9.03 Sedime If yes, Tim PH 7.89 7.18 7.16 7.10 7.61 7.70 7.77	Conductivity (umhos/cm) 135.6 127.6 123.0 119.9 117.7 139.8 160.7 157.6 157.6	Volume: Temperature (PF) 20.7 20.7 20.0 19.8 19.8 20.0 20.1 20.4 20.3	gal. D.O. (mg/L)	ORP (mV)		
Sample Time/ Purging Flow Did well de-water (2400 hr. 4:4:4:4:4:4:4:4:5:4:5:6:000	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8 22.0	9.03 Sedime If yes, Tim PH 7.89 7.18 7.15 7.61 7.62 7.77 1.61 7.79 LAI REFRIG.	Conductivity (umhos/cm) 135.6 127.6 127.6 123.0 119.9 117.7 139.8 160.7 162.8 157.6 157.6 PRESERV. TYPE	Volume: Temperature (CF) 20.7 20.5 20.0 19.8 19.8 20.0 20.1 20.4 20.3 DRMATION LABORATORY	gal. D.O. (mg/L)	ORP (mV)		
Sample Time/ Purging Flow Did well de-water (2400 hr. 4:4:4:4:4:4:4:4:5:4:5:6:000	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8 22.0	9.03 Sedime If yes, Tim PH 7.89 7.18 7.15 7.61 7.62 7.77 1.61 7.79 LAI REFRIG.	Conductivity (umhos/cm) 135.6 127.6 127.6 123.0 119.9 117.7 139.8 160.7 162.8 157.6 157.6 PRESERV. TYPE	Volume: Temperature (CF) 20.7 20.5 20.0 19.8 19.8 20.0 20.1 20.4 20.3 DRMATION LABORATORY	gal. D.O. (mg/L)	ORP (mV)		
Sample Time/ Purging Flow Did well de-water (2400 hr. 4:4:4:4:4:4:4:4:5:4:5:6:000	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8 22.0	9.03 Sedime If yes, Tim PH 7.89 7.18 7.15 7.61 7.62 7.77 1.61 7.79 LAI REFRIG.	Conductivity (umhos/cm) 135.6 127.6 127.6 123.0 119.9 117.7 139.8 160.7 162.8 157.6 157.6 PRESERV. TYPE	Volume: Temperature (CF) 20.7 20.5 20.0 19.8 19.8 20.0 20.1 20.4 20.3 DRMATION LABORATORY	gal. D.O. (mg/L)	ORP (mV)		
Sample Time/ Purging Flow Did well de-water (2400 hr. 4:4:4:4:4:4:4:4:5:4:5:6:000	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8 22.0	9.03 Sedime If yes, Tim PH 7.89 7.18 7.15 7.61 7.62 7.77 1.61 7.79 LAI REFRIG.	Conductivity (umhos/cm) 135.6 127.6 127.6 123.0 119.9 117.7 139.8 160.7 162.8 157.6 157.6 PRESERV. TYPE	Volume: Temperature (CF) 20.7 20.5 20.0 19.8 19.8 20.0 20.1 20.4 20.3 DRMATION LABORATORY	gal. D.O. (mg/L)	ORP (mV)		
Sample Time/ Purging Flow Did well de-water (2400 hr. 4:4:4:4:4:4:4:4:5:4:5:6:000	Date: 5:15 / 9 Rate: 2.0 gpm. ater? No Volume (gal.) 2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8 22.0 (#) CONTAINER 6 x voa vial	9.03 Sedime If yes, Tim PH 7.89 7.18 7.15 7.61 7.62 7.77 1.61 7.79 LAI REFRIG.	Conductivity (umhos/cm) 135.6 127.6 127.6 123.0 119.9 117.7 139.8 160.7 162.8 157.6 157.6 PRESERV. TYPE	Volume: Temperature (CF) 20.7 20.5 20.0 19.8 19.8 20.0 20.1 20.4 20.3 DRMATION LABORATORY	gal. D.O. (mg/L)	ORP (mV)		

STANDARD OPERATING PROCEDURE - 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 well development, each well is monitored for the presence of free-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.

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable 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 4NC 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 Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

Chevron California Region Analysis Request/Chain of Custody



091003 - 00 | Acct. #: 109 04 | Sample #: 4119045-51

			,							7	Analy	/805	Rec	queste	đ		\neg	(Gr. HE	8666	97
Facility #: SS#9-0076 G-R#386495 Gi	obal ID#T06	00100339		T	Matrix		匸				Pres	erve		Codes	3			Preserva	tive Code	98
Site Address: 4265 FOOTHILL BLVD., OAH	(LAND, CA						#	#					1		+		\square	H = HCI	T = Thios	
Chevron PM: KS	Consultant: C	AMBRIA		\vdash											ĺ			N = HNO3 S = H2SO4	B = NaOl	
Consultant/Office: G-R, Inc., 6747 Sierra Co	ourt, Suite J,	Dublin, Ca.	94568	3	ES Se	ers.			Gel Cleanup				(078					☐ J value report	ing needed	
Consultant Prj. Mgr.: Deanna L. Harding (c	leanna@grin	ic.com)			Potable NPDES	ntair	3021		SS (8					Must meet lov	vest detecti	ion limits
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899						Oil ☐ Air ☐ Total Number of Containers	8260 🔀 8021 🗆		Silica				الح					possible for 82		unds
Consultant Phone #: 920-001-7000	Fax #: _ 32 \	1-35 1-7633 1		-		- Q	8260	8	8		8	7421	2					8021 MTBE Con		990
Sampler: FRANK TERN			Grab Composite			Nam Air D	BTEX + MTBE	TPH 8015 MOD GRO	8	E	Oxygenates	read 7420 🖂	THA					Confirm all hit	•	.00
Service Order #: N	on SAR:	Time	유 일 일	-	Water		× + K	8015	8015	8260 full scan	ð	17420	FT					☐Runoxy	=	st hit
Sample Identification	Collected	Collected	Grad Com Com			Total	븳	王	Œ	628 628		3					Ш	☐ Run oxy	s on all hit	\$
QA	9.9.03	ļ		\perp	W	2	·X											Comments / R	temarks	
	<u> </u>	1	+		1	1	 	 							╀	\sqcup	Щ			
<u>C-1</u>	 	1175		+	$H \rightarrow$	- 6		**	 		 	\dashv	X	-	┼	 	$\vdash \vdash$			
<u> </u>		1035	슭	+	HH	6		1	H	\vdash		\dashv	7		+	\vdash	$\vdash\vdash$			
			2	1-1	13	6		1				\neg	7	\dashv	+	+-+	Н			
C-7	·	1112	\text{\ti}\}\\ \text{\tin}\}\\ \text{\te}\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\texitt{\texi}\text{\texi}\text{\texi}\text{\texi}\text{\texi}\tex			6	X	Ł					X		1_	†				•
C-10	Y	ארו	2		Y	6	凶	K					X							
			\dashv	1-1			igaplus			\sqcup	\vdash		\vdash	\dashv	igaplus	1	Ш			
				┿╃	 		+	 				_	\dashv	\dashv	 	┼┤	\vdash			
				+-1			+-	┼		-		-		-	+	+	\vdash			
¥ .			<u> </u>	力			T	 					\Box	\dashv	1		\vdash			
Turnaround Time Requested (TAT) (please circ	de)	Relinquis	#eg by:		_				a	Date	OBI	Time	\prod_{i}	ooolyee G C	o by:	1		**************************************	Date	Time
STD. TAT) 72 hour 48 hour		Relinguis	hed but	}~ €	2-		<u></u>			Date			o	Seceived		<u>w</u>		·····		
24 hour 4 day 5 day		الكاف	20	ر ا <u>مت</u>						12		Time	20.1	EZ.	•	6	14	: مسيد به را	Qate 2/10/63	Time //45
Data Package Options (please circle if required)		Relinquis			<u> </u>			-		Date	,	Time	∌ F	Received	d by:) ate	Time
QC Summary Type I — Full				Comp	-//	Corrier	y		-7/	111/	103/	44		A/2		ne	<u> </u>			
Type VI (Raw Data)	ed	UPS		dEx	instrusi C	Other	À	ir	$\mathcal{P}^{\mathcal{C}}$	λ'n	K		'	Received by:			J i	1116	PRINS	Time OT70
Disk		Tempera			ceipt		<i>7</i>	C°					+,	Custody	 Seal:	ليلالک Sintac	ct?	Yes No	1 K)	- 109
							`						`					<u> </u>		

2425 New Holland Pike, PO Box 12425. Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310

> San Ramon EA 94583 925-842-8582

> > Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 866597. Samples arrived at the laboratory on Thursday, September 11, 2003. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-030909	NA	Water	4119645
C-1-W-030909	Grab	Water	4119646
C-2-W-030909	Grab	Water	4119647
C-3-W-030909	Grab	Water	4119648
C-4-W-030909	Grab	Water	4119649
C-7-W-030909	Grab	Water	4119650
C-10-W-030909	Grab	Water	4119651

ELECTRONIC

Gettler-Ryan

Attn: Cheryl Hansen

COPY TO 1 COPY TO

Cambria C/O Gettler- Ryan

Attn: Deanna L. Harding



2425 New Holland Pike. PO 8ox 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • WWW.lancasterlabs.com

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

Respectfully Submitted,

What Millinger
Robert E. Mellinger

Senior Chemist, Coordinator



2425 New Holland Pike, PO Box 12425, Langaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4119645

Collected: 09/09/2003 00:00 Account Number: 10904

Submitted: 09/11/2003 09:20 ChevronTexaco

Reported: 09/21/2003 at 21:45 6001 Bollinger Canyon Rd L4310

Discard: 10/22/2003

QA-T-030909 NA Water San Ramon CA 94583

Facility# 90076 Job# 386495 GRD

4265 Foothill Oakland T0600100339 QA

495QA

				As Received					
CAT			As Received	Method		Dilution			
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor			
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1			
	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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.								
06054	BTEX+MTBE by 8260B								
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1			
05401	Benzene	71-43-2	N.D.	0.5	ug/1	1			
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1			
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/1	1			
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1			

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT		~		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 02:46	Linda C Pape	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	09/15/2003 04:13	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 02:46	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/15/2003 04:13	Elizabeth M Taylor	n.a.



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4119646

Collected:09/09/2003 11:49

by FT

Account Number: 10904

Submitted: 09/11/2003 09:20

Reported: 09/21/2003 at 21:46

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 10/22/2003

C-1-W-030909

Grab Water

San Ramon CA 94583

Facility# 90076 Job# 386495

GRD

4265 Foothill Oakland

T0600100339 C-1

495C1

				As Received						
CAT			As Received	Method		Dilution				
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor				
01728	TPH-GRO - Waters	n.a.	290.	50.	ug/l	1				
	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. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.									
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH									
01587	Ethanol	64-17-5	N.D.	100.	ug/l	2				
02010	Methyl Tertiary Butyl Ether	1634-04-4	710.	10.	ug/l	20				
05401	Benzene	71-43-2	4.	1.	ug/l	2				
05407	Toluene	108-88-3	N.D.	1.	ug/l	2				
05415	Ethylbenzene	100-41-4	1.	1.	ug/l	2				
06310	Xylene (Total)	1330-20-7	3.	1.	ug/1	2				
	Due to the level of methyl tert all GC/MS volatile compounds we	= =	er, the reporting	limits for						

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline	1	09/14/2003 01:36	Martha L Seidel	1
01594	BTEX+5	Method SW-846 8260B	1	09/18/2003 04:08	Elizabeth M Taylor	2
01594	Oxygenates+EDC+EDB+ETOH BTEX+5	SW-846 8260B	1	09/18/2003 04:34	Elizabeth M Taylor	20
01146 01163	Oxygenates+EDC+EDB+ETOH GC VOA Water Prep GC/MS VOA Water Prep	SW-846 5030B SW-846 5030B	1	09/14/2003 01:36 09/18/2003 04:08	Martha L Seidel Elizabeth M Taylor	n.a. n.a.
	•					



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4119647

Collected:09/09/2003 11:55

by FT

Account Number: 10904

Submitted: 09/11/2003 09:20

ChevronTexaco

Reported: 09/21/2003 at 21:46

6001 Bollinger Canyon Rd L4310

Discard: 10/22/2003

C-2-W-030909

Grab

Water

San Ramon CA 94583

Facility# 90076 Job# 386495

GRD

4265 Foothill Oakland T0600100339 C-2

495C2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	6,800.	1,000.	ug/l	20
	The reported concentration of Ti gasoline constituents eluting pr start time.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	200.	ug/l	4
02010	Methyl Tertiary Butyl Ether	1634-04-4	1,300.	20.	ug/l	40
05401	Benzene	71-43-2	1,100.	2.	ug/l	4
05407	Toluene	108-88-3	9.	2.	ug/l	4
05415	Ethylbenzene	100-41-4	83.	2.	ug/l	4
06310	Xylene (Total)	1330-20-7	47.	2.	ug/l	4
	The reporting limits for the GC because sample dilution was necessary		-			

State of California Lab Certification No. 2116

calibration range of the system.

Laboratory Chronicle

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Pactor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 12:06	Michael F Barrow	20
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/18/2003 05:00	Elizabeth M Taylor	4
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/18/2003 05:27	Elizabeth M Taylor	40
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 12:06	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/18/2003 05:00	Elizabeth M Taylor	n.a.



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4119648

Collected: 09/09/2003 10:35

by FT

Water

Account Number: 10904

Submitted: 09/11/2003 09:20

Reported: 09/21/2003 at 21:46

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 10/22/2003

C-3-W-030909

Grab

San Ramon CA 94583

Facility# 90076 Job# 386495

GRD

4265 Foothill Oakland T0600100339 C-3

495C3

CAT			As Received	As Received Method		Dilution			
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor			
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1			
	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.								
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH								
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1			
02010	Methyl Tertiary Butyl Ether	1634-04-4	160.	0.5	ug/l	1			
05401	Benzene	71-43-2	2.	0.5	ug/1	1			
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1 .			
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1			
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1			

Laboratory Chronicle							
CAT		-			Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Pactor	
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 09:24	Todd T Smythe	1	
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/18/2003 05:54	Elizabeth M Taylor	1	
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 09:24	Todd T Smythe	n.a.	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/18/2003 05:54	Elizabeth M Taylor	n.a.	



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4119649

Collected:09/09/2003 12:19

by FT

Account Number: 10904

Submitted: 09/11/2003 09:20

Reported: 09/21/2003 at 21:46

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 10/22/2003

C-4-W-030909

Grab

Water

San Ramon CA 94583

Facility# 90076 Job# 386495

GRD

4265 Foothill Oakland T0600100339 C-4

495C4

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	690.	50.	ug/l	1
	The reported concentration of T gasoline constituents eluting pastart time.	PH-GRO does not rior to the C6	include MTBE or (n-hexane) TPH-G	other RO range		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	30.	0.5	ug/l	1
05401	Benzene	71-43-2	8.	0.5	ug/l	1
05407	Toluene	108-88-3	0.8	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	5.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	5.	0.5	ug/l	1

		Laboratory	Chro:	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 09:56	Todd T Smythe	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/18/2003 06:20	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 09:56	Todd T Smythe	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/18/2003 06:20	Elizabeth M Taylor	n.a.



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax; 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4119650

Collected: 09/09/2003 11:12

by FT

Account Number: 10904

Submitted: 09/11/2003 09:20

Reported: 09/21/2003 at 21:46

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 10/22/2003

C-7-W-030909

Grab

Water

San Ramon CA 94583

Facility# 90076 Job# 386495

GRD

4265 Foothill Oakland T0600100339 C-7

495C7

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Pactor
01728	TPH-GRO - Waters	n.a.	3,900.	250.	ug/1	5
	The reported concentration of T gasoline constituents eluting p start time.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/1	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	5.	0.5	ug/l	1
05401	Benzene	71-43-2	310.	2.	ug/l	4
05407	Toluene	108-88-3	9.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	110.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	130.	0.5	ug/l	1

Labora	tory	Chronicle
--------	------	-----------

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Pactor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 11:34	Michael F Barrow	5
01594	BTEX+5	SW-846 8260B	1	09/18/2003 06:46	Elizabeth M Taylor	1
	Oxygenates+EDC+EDB+ETOH			00/10/0000 10 50	Di-shakk M Marsley	4
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	Ţ	09/19/2003 18:59	Elizabeth M Taylor	4
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 11:34	Michael F Barrow	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/18/2003 06:46	Elizabeth M Taylor	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	2	09/19/2003 18:59	Elizabeth M Taylor	n.a.



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

n.a.

Lancaster Laboratories Sample No. WW 4119651

Collected:09/09/2003 17:15

by FT

Account Number: 10904

Submitted: 09/11/2003 09:20

Reported: 09/21/2003 at 21:46

ChevronTexaco

6001 Bollinger Canyon Rd L4310

1 09/18/2003 07:39 Elizabeth M Taylor

Discard: 10/22/2003

C-10-W-030909

Grab Water San Ramon CA 94583

Facility# 90076 Job# 386495

01163 GC/MS VOA Water Prep

4265 Foothill Oakland T0600100339 C-10

49510

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Pactor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of I gasoline constituents eluting patent time.					
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	14.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.5	0.5	ug/l	1

GRD

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/15/2003 10:29	Michael F Barrow	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	09/18/2003 07:39	Elizabeth M Taylor	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2003 10:29	Michael F Barrow	n.a.

SW-846 5030B



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 3

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 866597

Reported: 09/21/03 at 09:46 PM

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	<u>RPĎ</u>	RPD Max
Batch number: 03256A51A TPH-GRO - Waters	Sample nur N.D.	mber(s): 50.	4119646 ug/l	105	111	70-130	5	30
Batch number: 03256A51B TPH-GRO - Waters	Sample nur	mber(s): 50.	4119645 ug/l	105	111	70-130	5	30
Batch number: 03258A07A TPH-GRO - Waters	Sample nur N.D.	mber(s): 50.	4119647-41 ug/l	19651 96		70-130		
Batch number: P032572AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample nur N.D. N.D. N.D. N.D. N.D.	nber(s): 0.5 0.5 0.5 0.5 0.5	4119645 ug/l ug/l ug/l ug/l ug/l	97 100 100 100 100		77-127 85-117 85-115 82-119 84-120		
Batch number: P032603AA Ethanol Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample num N.D. N.D. N.D. N.D. N.D. N.D.	mber(s): 50. 0.5 0.5 0.5 0.5	4119646-41 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	19651 106 99 98 95 96		46-145 77-127 85-117 85-115 82-119 84-120		·
Batch number: P032621AA Benzene	Sample nur N.D.	mber(s): 0.5	4119650 ug/l	101		85-117		

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	<u>RPD</u>	MAX	Conc	Conc	RPD	Max
Batch number: 03256A51A TPH-GRO - Waters	Sample 118	number	(s): 4119646 63-154	į					
Batch number: 03256A51B TPH-GRO - Waters	Sample 118	number	(s): 4119645 63-154	;					
Batch number: 03258A07A	Sample	number	(s): 4119647	-41196	51				
TPH-GRO - Waters	104	103	63-154	1	30				
Batch number: P032572AA	Sample	number	(s): 4119645	;					
Methyl Tertiary Butyl Ether	106	105	69-134	0	30				
Benzene	107	107	83-128	0	30				
Toluene	109	108	83-127	1	30				
Ethylbenzene	108	108	82-129	0	30				
Xylene (Total)	108	107	82-130	1	30				
Batch number: P032603AA	Sample	number	(s): 4119646	-41196	51				
Ethanol	110	112	38-149	2	30				
Methyl Tertiary Butyl Ether	99	100	69-134	1	30				
Benzene	104	105	83-128	1	30				
Toluene	103	104	83-127	2	30				

*- 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.



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Page 2 of 3

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 866597

Reported: 09/21/03 at 09:46 PM

Sample Matrix Quality Control

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name Ethylbenzene Xylene (Total)	%REC 102 103	%REC 104 103	Limits 82-129 82-130	<u>RPD</u> 2 1	<u>MAX</u> 30 30	Conc	Conc	RPD	Max
Batch number: P032621AA Benzene	Sample	e number 107	(s): 41196 83-128	50 0	30				

Surrogate Quality Control

4119646 105
Blank 105
LCS 105
LCSD 104
MS 103

Limits: 57-146

Analysis Name: TPH-GRO - Waters

Batch number: 03256A51B

Trifluorotoluene-F

 4119645
 100

 Blank
 102

 LCS
 105

 LCSD
 104

 MS
 103

Limits: 57-146

Analysis Name: TPH-GRO - Waters Batch number: 03258A07A

Trifluorotoluene-F

4119647	92	 	· ·	 	 	
4119648	87					
4119649	101					
4119650	106					
4119651	80					
Blank	80					
LCS	104					
MS	110					
MSD	108					
				 	 	 _

Limits: 57-146

Analysis Name: BTEX+MTBE by 82608

Batch number: P032572AA

Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

- (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.

^{*-} Outside of specification



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 *717-656-2300 Fax: 717-656-2681 * www.lancasterlabs.com

Page 3 of 3

Quality Control Summary

	dame: ChevronTexaco .: 09/21/03 at 09:46		Group Number: 866597	
Mopulation.	03,22,03 00 03.10		uality Control	
4119645	92	94	92	90
Blank	90	91	93	91
LCS	91	91	91	89
MS	93	93	92	88
MSD	91	92	92	90
Limits:	81-120	82-112	85-112	83-113
	/ame: BTEX+5 Oxygenates+ED	C+EDB+ETOH		
Batch numb	er: P032603AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4119646	100	100	97	98
4119647	101	99	96	101
411964B	100	99	97	99
4119649	100	98	98	100
4119650	99	95	97	101
4119651	100	100	98	99
Blank	101	99	96	99
LCS	100	98	98	100
MS	100	96	96	100
MSD	100	98	97	100
Limits:	81-120	82-112	85-112	83-113
	ame: 8260 Master Scan (wa er: P032621AA	ter)		
Batth Home	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	101	99	96	99
LCS	101	99	97	100
MS	101	99	96	100
MSD	100	99	96	100
Limits:	81-120	82-112	85-112	83-113

^{*-} 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.



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	Ī	liter(s)
m3	cubic meter(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 basis

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

Inorganic Qualifiers

U.S. EPA CLP Data Qualifiers:

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

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.

Organic Qualifiers

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.

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



ATTACHMENT D

Alameda County Public Works Agency
Well Installation Permit

P. 02

JUN-08-UI FRI 08:54 AM ALAMEDA COUNTY PWA RM234

EUX NO. 2101851938



ALAMEDA COUNTY PUBLIC WORKS AGENCY

DRILLING PERMIT APPLICATION

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)762-1939

	FOR OFFICE USE
for applicant to complete	1132 0100
	PERMIT NUMBER WOS 0680
LOCATION OF PROJECT 4625 FOOTHILL BANKEYORD	WELL HUMBER
OAKLAND CA	APN
OAK CAMA	
A CONTRACT OF THE PARTY OF THE	permit conditions
	Circled Permit Requirements Apply
CLIENT	-d.(n= -
SIME CLOUMED TEXACOS ATNS KARFOU STREICH	A. GENERAL 1. A permit application should be submitted so as to
Address 6001 Bullinger Canyon Phone (425) 842-1589	arrive as the ACPWA office five days prior to
Address 6001 Bullinger Canyon Phone (428) 842-1589 Cly SAN RAMON Zip 44583	proposed starting date.
. Ant 10 (17)	2. Aubmit to ACPWA within 60 days after completion of
Name TAN RUGO OF CAMBRIA	permitted original Department of Water Resources-
ENGLADUMENTAL FOX (CO) 420-9170	Well Completion Report.
Address	3. Permit is void if project not begun within 90 days of
City	approval date
	B. WATER SUPPLY WELLS 1. Minimum surface seal shickness is two inches of
	coment grout placed by transle,
TYPE OF PROJECT	2. Minimum seal depth is 50 feet for municipal and
Well Construction Geotechnical Investigation Gubenile Protection 0 General 0	Industrial wells or 20 feet for domestic and infigurion
	wells unless a losser depth is specially approved.
Water Supply 0 Contamination & Montroling 92 Well Description 0	C.GROUNDWATER MONITORING WELLS
MATINATING	INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE	I. Minimum surface seal thickness is two inches of
New Domestic (1 Replacement Domestic (1	cement group placed by tremic. 1. Minimum seal depth for monitoring wells is the
Municipal D Imparion 0	maximom depth processies of 20 feet
Industrial (I Dyner	D. GEOTECHNICAL
In the Board Randwill A.M.	Backfill bore hole by tremic with cement grout or commit
DRILLING METHOD: Mud Rolary D Air Rolary D Auger D	prouds and mixture. Upper two-three feet replaced in kind
Cable 0 Other 0	or with compacted cuttings.
AMPIN	E. CATHODIC
DRILLER'S NAME Grage Drilling	Fill hole inada zone with concrete placed by tremia.
405-115	F. WELL DESTRUCTION Send a map of work site. A separate permit is required
DRULLER'S LICENSE NO. 485-165	for wells desper than 45 feet
WCLL PROJECTS	NOTE: One application must be submitted for each well or well
	NOTE: One application must be submixed for each well or wall
0-40	dezentellair Whilable portules of ope abblication are recebrate
Surface Scal Depth 15 Owner's Well Number MW - X	for gentechnical and contamination investigations.
GEOTECHNICAL PROJECTS	
Number of Bosings Maximum Hale Diameter in Depth Depth	
	1/10
ESTIMATED STARTING DATE 8/15/03	APPROVED DATE THE
ESTIMATED COMPLETION DATE 9/15/03	APPROVED DATE
•	Name No. 53 68 / NVV
I heraby agree to comply with all requirements of this permit and Alameda County C	אטומאתכ אס, וש-ממ.
DATE DATE	7/16/05
APPLICATE OFFICE OF THE PROPERTY OF THE PROPER	
PLEASE PRINT NAME TON Robbs Re	ev.5-13-00
Fredan Landa Landa	<u> </u>



ATTACHMENT E

Second Quarter 2003 Monitoring Report