



Delta
Environmental
Consultants, Inc.

Alameda County

SEP 27 2002

Environmental Health

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916 638-2085
FAX. 916 638-8385

September 25, 2002

Mr. Barney Chan
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Ro56

Subject: *Monitoring Well Installation Report*
Former Texaco Service Station No. 211283
3810 Broadway
Oakland, California 94611
Delta Project No. D211-283-H

Mr. Chan:

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. (Delta) installed two monitoring wells at the subject site. The location of the site is presented on Figure 1 and site features are shown on Figure 2. The scope of work included drill out and reconstruction of damaged monitoring well MW-5, and install a replacement well within the former excavation. This report includes the results of drilling and well installation activities conducted on May 30, 2002.

The work was conducted in accordance with a workplan submitted to your agency by Toxicchem Management Services (Toxicchem). Toxicchem's workplan was submitted in conjunction with their Second Quarter 2001 Quarterly Monitoring Report, dated August 8, 2001. Alameda County Health Care Services (ACHCS) approved the workplan in a letter dated May 9, 2002. The well installation was permitted with Alameda County Department of Public Works. Copies of the ACHCS letter and the well installation permits are included in Enclosure A.

Site Description

According to files obtained from Chevron, the subject site operated as a Texaco Service Station from approximately 1963 to 1985. Currently, the site operates as a retail gasoline station and automobile repair facility. The site consists of a station building with two service bays, two dispenser islands, and two 10,000-gallon underground storage tanks (USTs) that share a common pit near the northern site boundary. Pertinent site features are shown on Figure 2.

Previous Environmental Work

A total of five USTs were installed in 1963 including four 6,000-gallon USTs and one 550-gallon used-oil UST. The four 6,000-gallon USTs were removed from the site in February 1980. The 550-gallon used-oil UST was removed in May 1991. During the removal of the used-oil UST, soil impacted with petroleum hydrocarbons was excavated and removed.

In October 1991, groundwater monitoring well MW-1 was installed by Harza Kaldveer following the removal of the used-oil UST. In January 1992, groundwater monitoring well MW-2 was installed by Harza Kaldveer to further assess groundwater quality in the vicinity of the former used-oil UST. Petroleum hydrocarbons were not detected in soil samples analyzed from well borings MW-1 and MW-2.

In September 1995, McLaren Hart installed soil borings B-1 through B-6. Encountered soils consisted of clay to silty sands. Concentrations of benzene and total petroleum hydrocarbons as gasoline (TPHg) were detected in soil samples submitted from B-1, B-2, B-4, and B-5. In October 1995, McLaren Hart installed wells MW-3 and MW-4 in response to hydrocarbon impacts observed in borings B-1 through B-6. A soil sample from MW-3 contained concentrations of benzene and TPHg. Wells MW-1 and MW-2 were redeveloped as part of a monitoring and sampling program and upon redevelopment of MW-2, liquid-phase petroleum hydrocarbons (LPH) were observed in the well. Soil analytical results from the installation of borings B-1 through B-6 and MW-3 and MW-4 is included in Enclosure B.

In September 1996, Fluor Daniel GTI installed monitoring wells MW-5 through MW-10 to evaluate the lateral extent of dissolved petroleum hydrocarbons in groundwater. Well MW-6 was installed directly east of the former UST basin. Low-level detections of benzene and TPHg were reported in soil samples collected from MW-6. Concentrations of benzene and TPHg were reported in soil samples collected from MW-8, located near the northern end of the dispenser islands. Soil samples collected from off site wells MW-7 and MW-10 did not contain concentrations of petroleum hydrocarbons.

During 1999, wells MW-2, MW-3, and MW-8 contained LPH for four consecutive quarters. Observed LPH thickness ranged between 0.04 and 1.89 feet.

In February 2000, wells MW-3 and MW-8 were destroyed by Toxicchem due to their location within the proposed limits of a large scale overexcavation. In March 2000, soil within the former UST basin was overexcavated to a depth of 22 feet bsg and removed from the site. Approximately 1,400 cubic yards of impacted soil were disposed of at an appropriate treatment, storage, and disposal facility. During the overexcavation of the former UST basin, well MW-2 was damaged and later destroyed. Limits of overexcavation are shown on Figure 2.

In August 2000, Toxicchem installed off-site monitoring well MW-11. Concentrations of petroleum hydrocarbons were not detected in soil samples submitted from MW-11.

Soil Borings

On May 30, 2002, Delta supervised the overdrilling of well MW-5 to an approximate depth of 36 feet bsg. The well was drilled out one foot past the installed well casing to remove the annular seal, sand pack, and well casing by Cascade Drilling (C57 #717510) of Rancho Cordova, California. The borehole was backfilled approximately six feet bsg (from 30 to 36 feet bsg) with Lonestar #3 sand. Well MW-5B was reconstructed in the same bore-hole to a depth of approximately 30 feet bsg. Well MW-12 was installed near the southern end of the western dispenser island in the former excavation to an approximate depth of 29.5 feet bsg. Well MW-12 was installed to monitor concentrations in the former source area since MW-3 was destroyed during overexcavation in 2000. Field methods and procedures used by Delta during the drilling activities are summarized in Enclosure C. Logs of the borings are included in Enclosure D.

Monitoring Well Construction

Monitoring wells MW-5B and MW-12 were constructed of 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) casing. The wells were screened with 20 feet (approximately 10 to 30 feet bsg) of 0.020-inch machine-slotted well screen. The annuluses of both wells were backfilled with clean Monterey sand to two feet above the top of the well screen followed by a two-foot thick bentonite transition seal. The upper six feet of annulus were backfilled to surface grade with neat cement containing approximately five percent bentonite powder. The wells were completed with locking well caps and traffic-rated well boxes set flush grade in concrete. Well construction details are included in Enclosure D.

Soil Sample Analytical Results

Discrete soil samples were not collected from well borings MW-5B or MW-12. Well MW-5 was a re-construction and MW-12 was installed in gravel backfill from the overexcavation so soil was not available for sampling. One composite soil sample (SP A-D) was collected from the drill cuttings and analyzed by Lancaster Laboratories (Lancaster) in Lancaster, Pennsylvania, for benzene, TPH as gasoline range organics (TPH-GRO), and total lead. Table 1 presents the results of the composite soil sample. A copy of the analytical report is included in Enclosure E.

Disposal of Soil Cuttings and Decontamination Water

Approximately two cubic yards of soil cuttings were generated during drilling activities. The cuttings were placed in eight 55-gallon DOT drums and stored at the site pending disposal. Approximately 100 gallons of decontamination water generated during steam cleaning of augers were placed in two 55-gallon DOT drums and stored at the site pending disposal. On June 7, 2002, Integrated Wastestream Management removed and transported 10 drums to Republican Services VRL in Livermore, California. Copies of the Certificates of Disposal are included in Enclosure F.

Well Survey

On June 24, 2002 monitoring wells MW-5B and MW-12 were surveyed by Morrow Surveying of West Sacramento, California relative to a City of Oakland benchmark. In accordance with State Assembly Bill AB2886, longitude and latitude coordinates were recorded from GPS observations along with well box and top of casing elevation relative to mean sea level. The well survey is presented in Enclosure G.

Well Development, Sampling, and Groundwater Level Measurements

On June 25, 2002, Gettler-Ryan, Inc. developed and sampled the newly installed wells, MW-5B and MW-12, in conjunction with the quarterly monitoring and sampling event conducted at the site. Field methods and procedures used during the development and sampling of the wells are included in Enclosure C.

Groundwater elevations were calculated between 64.81 and 65.54 feet above mean sea level. Based on the June 25, 2002 monitoring event, groundwater beneath the site appears to flow towards the southwest and northeast at an approximate gradient of 0.01. Groundwater monitoring results are presented in Table 2. Groundwater monitoring field data sheets including well development data for MW-5B and MW-12 are provided in Enclosure H. A groundwater elevation contour map constructed using data collected on June 25, 2002 is included as Figure 3.

Groundwater Sample Analytical Results

On June 25, 2002 groundwater samples were collected from wells MW-1, MW-4, MW-5B, MW-6, MW-7, and MW-9 through MW-12. Groundwater samples were submitted to Lancaster for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021 and TPH-GRO and TPH as diesel range organics (TPH-DRO) by DHS LUFT Method.

Laboratory chemical analyses of groundwater samples collected from wells MW-1, MW-4, MW-7, MW-9, and MW-11 did not detect concentrations of benzene, TPH-GRO or MTBE at or above the laboratory reporting limits. Benzene was detected in four of the nine groundwater samples analyzed at concentrations ranging between 89 and 2,200 micrograms per liter ($\mu\text{g/L}$). Concentrations of TPH-GRO ranging from 660 to 21,000 $\mu\text{g/L}$ were detected in four of the nine groundwater samples analyzed. Concentrations of TPH-DRO ranging between 100 and 2,500 $\mu\text{g/L}$ were detected in seven of the nine groundwater samples analyzed. The fuel oxygenate MTBE was detected in two groundwater samples collected at concentrations of 11 and 130 $\mu\text{g/L}$ from wells MW-12 and MW-5B, respectively. The highest benzene, TPH-GRO, and TPH-DRO concentrations were detected in groundwater collected from well MW-6. Table 2 presents the groundwater analytical results. Copies of the groundwater analytical results are included in Enclosure I.

Conclusions/Recommendations

The groundwater flow direction in the site vicinity is expected to be toward the southwest based on topography (Figure 1). During the June 25, 2002 monitoring event, groundwater beneath the site appeared to be mounded in the vicinity of well MW-12, located in the backfill of the former excavation. The mounding may be due to groundwater moving through the higher permeable material of the excavation and backing-up when in contact with native soil southwest of the former excavation.

Based on the groundwater analytical results from the June 25, 2002 sampling event, it appears that groundwater in the vicinity of well MW-6 continues to be impacted by residual hydrocarbons in excess of 1,000 $\mu\text{g/L}$. However, downgradient concentrations measured at MW-10 are more than one order of magnitude less. Prior to proposing additional site assessment, Delta recommends that one full year of groundwater monitoring be performed to provide seasonal concentration trends.

Remarks/Signatures

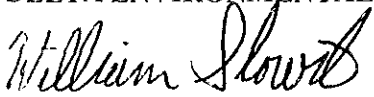
The interpretations contained in this report represent our professional opinions, and are based in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Mr. Barney Chan
Alameda County Health Care Services
September 25, 2002
Page 5

If you have any questions regarding this project, please contact Todd Del Frate at (916) 536-2612.

Sincerely,

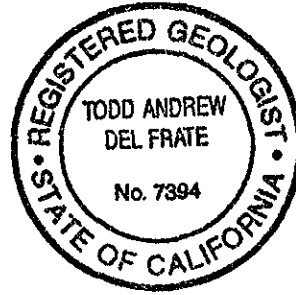
DELTA ENVIRONMENTAL CONSULTANTS, INC.



William Slowik
Staff Scientist



Todd A. Del Frate, R.G.
Project Manager
California Registered Geologist No. 7394



WS (LRP001.D211-283)
Enclosures

cc: Ms. Karen Streich – Chevron Products Company
Mr. Joe Zadik – 8255 San Leandro Street, Oakland, CA 94621



R 2 W

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 OAKLAND WEST & EAST, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1980



QUADRANGLE LOCATION

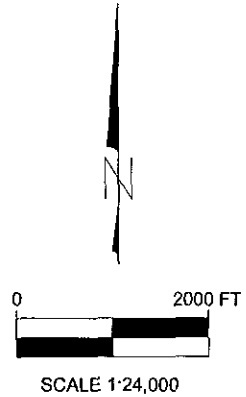


FIGURE 1
 SITE LOCATION MAP

FORMER TEXACO SERVICE STATION 21-1283
 3810 BROADWAY
 OAKLAND, CA.

PROJECT NO. D211-283	DRAWN BY M.L. 6/25/02
FILE NO. D211283A	PREPARED BY W.S.
REVISION NO. 1	REVIEWED BY <i>[Signature]</i>



BROADWAY

LIMITS OF EXCAVATION

DRIVEWAY

SIDEWALK

DRIVEWAY

DRIVEWAY

SIDEWALK

APPROXIMATE PROPERTY BOUNDARY

RETAINING WALL

UNDERGROUND STORAGE TANK COMPLEX

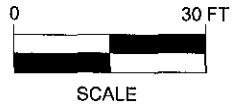
FORMER WASTE OIL TANK

EXISTING & FORMER PUMP ISLANDS

FORMER UST LOCATION

STATION BUILDING

38th STREET



LEGEND




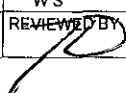
-  MW-1 MONITORING WELL LOCATION
-  MW-2 ABANDONED MONITORING WELL LOCATION
-  B-1 SOIL BORING LOCATION

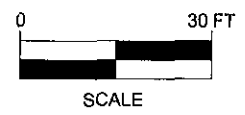
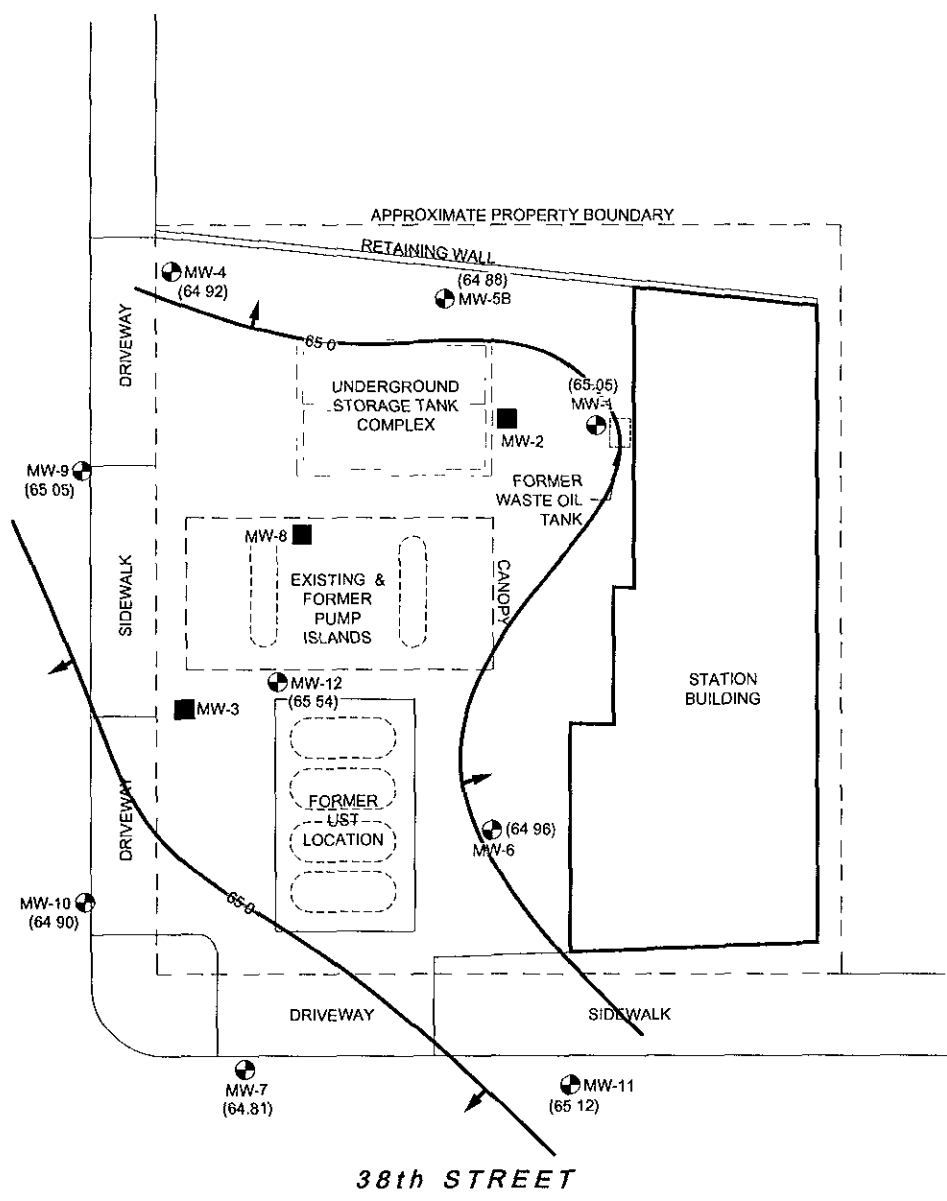
FIGURE 2
SITE MAP

FORMER TEXACO SERVICE STATION NO. 21-1283
3810 BROADWAY
OAKLAND, CA.

PROJECT NO D211-283	DRAWN BY M.L. 9/24/02
FILE NO. D211283B	PREPARED BY W S
REVISION NO. 6	REVIEWED BY 



BROADWAY



- LEGEND.
- MW-1 MONITORING WELL LOCATION
 - MW-2 ABANDONED MONITORING WELL LOCATION
 - (65.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
 - 65.0— WATER TABLE CONTOUR IN FEET ABOVE MSL
 - GROUNDWATER FLOW DIRECTION
 - NM NOT MEASURED
- GROUNDWATER FLOWS IN A RADIAL PATTERN AT A GRADIENT RANGING 0.01 TO 0.02 ft/ft

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 6/25/02

FORMER TEXACO SERVICE STATION NO. 21-1283
 3810 BROADWAY
 OAKLAND, CA.

PROJECT NO D211-283	DRAWN BY ML, 9/17/02
FILE NO D211283B	PREPARED BY TAD
REVISION NO 5	REVIEWED BY

Delta
Environmental
Consultants, Inc.

TABLE 1**SOIL CHEMICAL ANALYTICAL RESULTS**

Former Texaco Service Station
3810 Broadway
Oakland, California

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	Lead (mg/kg)
<u>Soil Stockpile Samples</u>								
SP-A,B,C,D	5/30/2002	Composite	<0.005	<0.005	<0.005	<0.015	2.1	10

TPH-GRO = Total petroleum hydrocarbons as gasoline range organics.

mg/kg = Milligrams per kilogram.

ft = feet

TABLE 2

GROUNDWATER ANALYTICAL RESULTS

Former Texaco Service Station
3810 Broadway
Oakland, California

Sample ID	Date Sampled	Top of Casing Elevation (ft above msl)	Depth to Water (ft)	Groundwater Elevation (ft above msl)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	MtBE (µg/L)
MW-1	06/25/02	86.69	21.64	65.05	<0.5	<0.5	<0.5	<1.5	<50	490 ¹	<2.5
MW-4	06/25/02	83.31	18.39	64.92	<0.5	<0.5	<0.5	<1.5	<50	250	<2.5
MW-5B	06/25/02	85.36	20.48	64.88	89	1.9	39	11	660	320	130
MW-6	06/25/02	86.09	21.13	64.96	2,200	1,800	850	2,100	21,000	2,500	<100
MW-7	06/25/02	84.11	19.30	64.81	<0.5	<0.5	<0.5	<1.5	<50	<50	<2.5
MW-9	06/25/02	82.17	17.12	65.05	<0.5	<0.5	<0.5	<1.5	<50	100	<2.5
MW-10	06/25/02	81.83	16.93	64.90	180	3.2	17	8.0	810	180	<2.5
MW-11	06/25/02	90.63	25.51	65.12	<0.5	<0.5	<0.5	<1.5	<50	250	<2.5
MW-12	06/25/02	84.19	18.65	65.54	340	8.2	16	8.3	1,000	410	11

¹ The observed sample pattern is not typical of diesel/fuel oil #2.

TPH-GRO = Total petroleum hydrocarbons as gasoline range organics.

TPH-DRO = Total petroleum hydrocarbons as diesel range organics.

MtBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted.

msl = mean sea level

ft = feet

µg/L = Micrograms per liter.

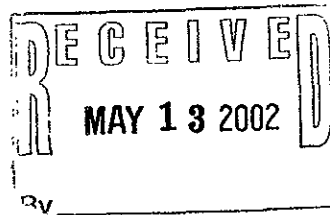
ENCLOSURE A

Alameda County Health Care Services Letter
Dated May 9, 2002

Alameda County Department of Public Works Well Installation Permits

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

May 9, 2002

Mr. Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Re: Fuel Leak Case RO0000056, 3810 Broadway, Oakland CA 94607

Dear Ms. Petryna:

This letter formally approves the scope of work described in the August 8, 2001 Toxicchem Quarterly Monitoring Report- Second Quarter 2001. This work includes the proper closure of MW-5 and the replacement of this well in the same general location and the installation of a replacement well for MW-3 and MW-8 within the former excavation pit. Since the replacement well for MW-5 will be located next to the former well, no vadose soil samples need to be analyzed unless field screen results indicate significant contamination.

Please notify our office prior to performing this work. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

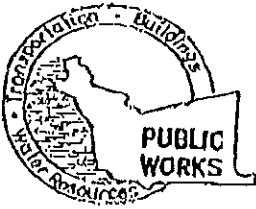
Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files

Mr. T. Del Frate, Delta Environmental Consultants, 3164 Gold Camp Drive, Suite
200, Rancho Cordova, CA 95670

Mr. Joe Zadik, 8255 San Leandro St., Oakland CA 94621

Wpap3810Broadway



ALAMEDA COUNTY PUBLIC WORKS AGENCY

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Farmer Texaco
Service Station
3810 Broadway
Oakland, Ca

PERMIT NUMBER W02-0509
WELL NUMBER _____
APN _____

CLIENT
Name Chevron Texaco
Address P.O. Box 6004 Phone _____
City San Ramon Zip 94583

PERMIT CONDITIONS
Circled Permit Requirements Apply

APPLICANT
Name Delta Environmental Consultants, Inc.
Address 3164 Galt Camp Dr. Fax 916-632-8385
City Rancho Cordova Phone 916-536-2617
Zip 95670

- 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	<input checked="" type="checkbox"/>	Geotechnical Investigation	_____
Cathodic Protection	<input type="checkbox"/>	General	_____
Water Supply	<input type="checkbox"/>	Contamination	_____
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	_____
		Replace	<input checked="" type="checkbox"/>

- B. WATER SUPPLY WELLS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	_____
Municipal	<input type="checkbox"/>	Irrigation	_____
Industrial	<input type="checkbox"/>	Other	_____

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	_____		

- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRIILLER'S NAME Cascade Drilling, Inc.
DRIILLER'S LICENSE NO. 717510

- E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS**

WELL PROJECTS

Drill Hole Diameter	<u>8-10</u> in.	Maximum Depth	<u>35</u> ft.
Casing Diameter	<u>2</u> in.	Owner's Well Number	<u>MW-5</u>
Surface Seal Depth	<u>5</u> ft.		

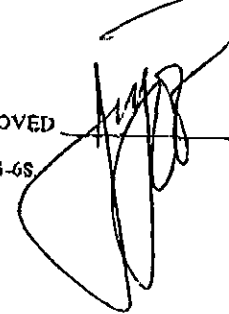
NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum Hole Diameter	_____ in.
		Depth	_____ ft.

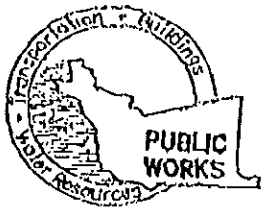
ESTIMATED STARTING DATE May 30, 2002
ESTIMATED COMPLETION DATE SAME

APPROVED _____ DATE 5-9-02



I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-6S

APPLICANT'S SIGNATURE William Slowik DATE 5/1/02
PLEASE PRINT NAME William Slowik



ALAMEDA COUNTY PUBLIC WORKS AGENCY

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Texaco
Service Station # 211283
3810 Broadway
Oakland California

PERMIT NUMBER W02-0510
WELL NUMBER _____
APN _____

CLIENT Name Chevron Texaco
Address P.O. Box 6004 Phone (925) 392-7898
City San Ramon, CA Zip 94583

PERMIT CONDITIONS
Circled Permit Requirements Apply

APPLICANT Name Delta Environmental Consultants, Inc.
Address 3164 Gold Camp Drive Fax (916) 638-8385
City Rancho Cordova Phone (916) 536-2617 Zip 95620

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	<input checked="" type="checkbox"/>	Geotechnical Investigation	.....
Cathodic Protection	<input type="checkbox"/>	General	.....
Water Supply	<input type="checkbox"/>	Contamination	.....
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	.....

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	.....
Municipal	<input type="checkbox"/>	Irrigation	.....
Industrial	<input type="checkbox"/>	Other	.....

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout and mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLER'S NAME Cascade Drilling, Inc.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. 717510

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

WELL PROJECTS

Drill Hole Diameter	<u>8-10</u> in.	Maximum Depth	<u>35</u> ft.
Casing Diameter	<u>2</u> in.	Owner's Well Number	<u>MW-12</u>
Surface Seal Depth	<u>5</u> ft.		

C. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

GEOTECHNICAL PROJECTS

Number of Borings	.....	Maximum Depth	..... ft.
Hole Diameter	..... in.		

ESTIMATED STARTING DATE 5/30/02

ESTIMATED COMPLETION DATE SAME

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPROVED _____ DATE 5/9/02

APPLICANT'S SIGNATURE William Slowik DATE 5/1/02

PLEASE PRINT NAME William Slowik REV. 5-13-00

ENCLOSURE B

Soil Analytical Results for
Borings B-1 Through B-6 and MW-3 and MW-4

TABLE 3
SOIL ANALYTICAL RESULTS
3810 Broadway, Oakland, California

Sample Location	Sample Date	Depth	TPH-G (ppm)	TPH-D (ppm)	TPH-MO (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)
B-1	9/11/95	12.5	310	---	---	0.15	0.29	6.2	31.2
		19	3,600	---	---	33	310	67	361
		26.5	1.1	---	---	0.27	0.06	0.018	0.023
B-2	9/11/95	12.5	3.1	---	---	0.69	0.11	0.69	0.103
		16.5	2,200	---	---	15	120	37	445
		26.5	<1	---	---	<0.005	0.011	<0.005	<0.005
B-3	9/12/95	27	<1	<1	1.3	<0.005	<0.005	<0.005	<0.005
B-4	9/11/95	12.5	83	---	---	0.06	<0.050	1.2	7.2
		18	1,400	---	---	3.8	44	18	101
		26.5	1.9	<20	<20	0.52	0.078	0.039	0.07
B-5	9/12/95	12.5	4,800	---	---	48	390	93	466
		29.5	<1	---	---	0.055	0.009	<0.005	<0.005
B-6	9/12/95	12.5	<1	---	---	<0.005	0.009	<0.005	<0.005
MW-3	10/26/95	8.5	65,000	---	---	88	550	140	690
		15.5	1.4	---	---	<0.005	0.027	0.0064	0.0265
		19.5	6.2	---	---	1.3	1.5	0.11	0.43
MW-4	10/26/95	29	<1	---	---	<0.005	<0.005	<0.005	<0.005

TPH-G = Total petroleum hydrocarbons quantitated against gasoline by DHS/LUFT method.

TPH-D = Total petroleum hydrocarbons quantitated against diesel by EPA Method 8015 Modified.

TPH-MO = Total petroleum hydrocarbons quantitated against motor oil by EPA Method 8015 Modified.

ppm = Parts per million.

--- = Not analyzed.

< = Compound not detected at or above the specified laboratory reporting limit.

ENCLOSURE C

Field Methods and Procedures

1.0 METHODS AND PROCEDURES

1.1 Health and Safety Plan

Field work performed by Delta and Delta's subcontractors at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

1.2 Locating Underground Utilities

Prior to commencement of work on-site, Delta researches the location of underground utilities with the assistance of Underground Service Alert (USA). USA contacts the owners of the various utilities in the vicinity of the site to have the utility owners mark the locations of their underground utilities. Work associated with the boring and monitoring well installation is preceded by manual hand augering to a minimum depth of 5 feet below surface grade (bsg) to avoid contact with underground utilities.

1.3 Soil Sampling and Contamination Reduction

Soil borings and soil sampling are performed under the direction of a Delta geologist. Soil borings are advanced using a truck-mounted hollow-stem auger drill rig.

To reduce the chances of cross-contamination between boreholes, all downhole drilling equipment is steam-cleaned between each boring. To reduce cross-contamination between samples, the split-barrel sampler is washed in a soap solution and double-rinsed between each sampling event.

Soil sampling beyond 5 feet bsg is conducted in accordance with ASTM 1586-84. Using this procedure, a 2-inch outside-diameter split-barrel sampler or a 2-inch inside-diameter California-type sampler is driven into the soil by a 140-pound weight falling 30-inches. After an initial set of 6-inches, the number of blows required to drive the sampler an additional 12-inches (known as penetration resistance or the "N" value) is recorded. The N value is used as an empirical measure of the relative density of cohesionless soils and the consistency of cohesive soils.

Upon recovery, a portion of the soil sample is placed into a plastic bag and sealed for later screening with a photoionization detector (PID). Another portion of the soil sample is used for classification and description.

That part of the soil sample collected in the leading brass tube within the California-type sampler is stored at approximately 4°C for transport to the laboratory.

1.4 Soil Classification

As the samples are obtained in the field, they are classified by the geologist in accordance with the Unified Soil Classification System (USCS). Representative portions of the samples are then retained for further examination and for verification of the field classification. Logs of the borings indicating the depth and identification of the various strata, the N value, and pertinent information regarding the method of maintaining and advancing the borehole are made.

1.5 Soil Sample Screening/hNu Portable Photoionization Detector Method

After the soil sample plastic bags are brought to ambient temperature, the headspace vapors of the soil sample in the bag are screened with a PID equipped with a 10.2 eV lamp. The sample corner of the bag is opened and the detector probe immediately placed within the headspace. The highest observed reading is recorded.

1.6 Monitoring Well Gravel Pack and Slot Size Selection

The gravel pack is selected such that it will permit the development of a zone of higher hydraulic conductivity adjacent to the well screen but will reduce piping of the finer-grained formation materials into the well. The slot size of the well screen is selected such that it will retain a minimum of 95 percent of the gravel pack material.

1.7 Monitoring Well Development

After monitoring wells are installed, each monitoring well is developed with a surge block and bailer (or pump) until the water produced is relatively sediment-free and until the conductivity, pH, and temperature stabilize. If the well is pumped dry during the development process, recharge rates are recorded. No water or chemicals are introduced into the monitoring wells during well development. All development water is placed in drums on-site for later disposal.

1.8 Groundwater Sampling

At least three wetted casing volumes of liquid are removed from each well by bailing with a clean disposable bailer. A liquid sample is collected from each well with a clean disposable bailer and transferred into a laboratory supplied sampling container. Each sample is appropriately labeled and stored on ice from the time

of collection through the time of delivery to the laboratory. Groundwater samples are transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses.

1.9 Liquid-Phase Petroleum Hydrocarbons

If liquid-phase petroleum hydrocarbons are present in a well, the thickness of the petroleum layer is measured by collecting a sample in a transparent disposable bailer with a check valve at the bottom, or by measurement using appropriate fluid-level sounding equipment.

2.0 ANALYTICAL PROCEDURES

Selected soil samples submitted to the laboratory are analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021, methyl tertiary butyl ether (MTBE) by EPA Method 8260B, and total petroleum hydrocarbons as gasoline (TPHg) using DHS LUFT.

3.0 QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures to be followed throughout the investigation.

3.1 General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of soil samples used on this project can be found in Section 1.0 (Methods).

3.2 Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures ensure sample integrity and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, are recorded on the borehole log or in the field records. Samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquish as the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirm that it was collected in the proper container, preserved correctly, and that there is an adequate volume for analysis.

If these conditions are met, the sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory in the laboratory. The sample description, date received, client's name, and other relevant information is also be recorded.

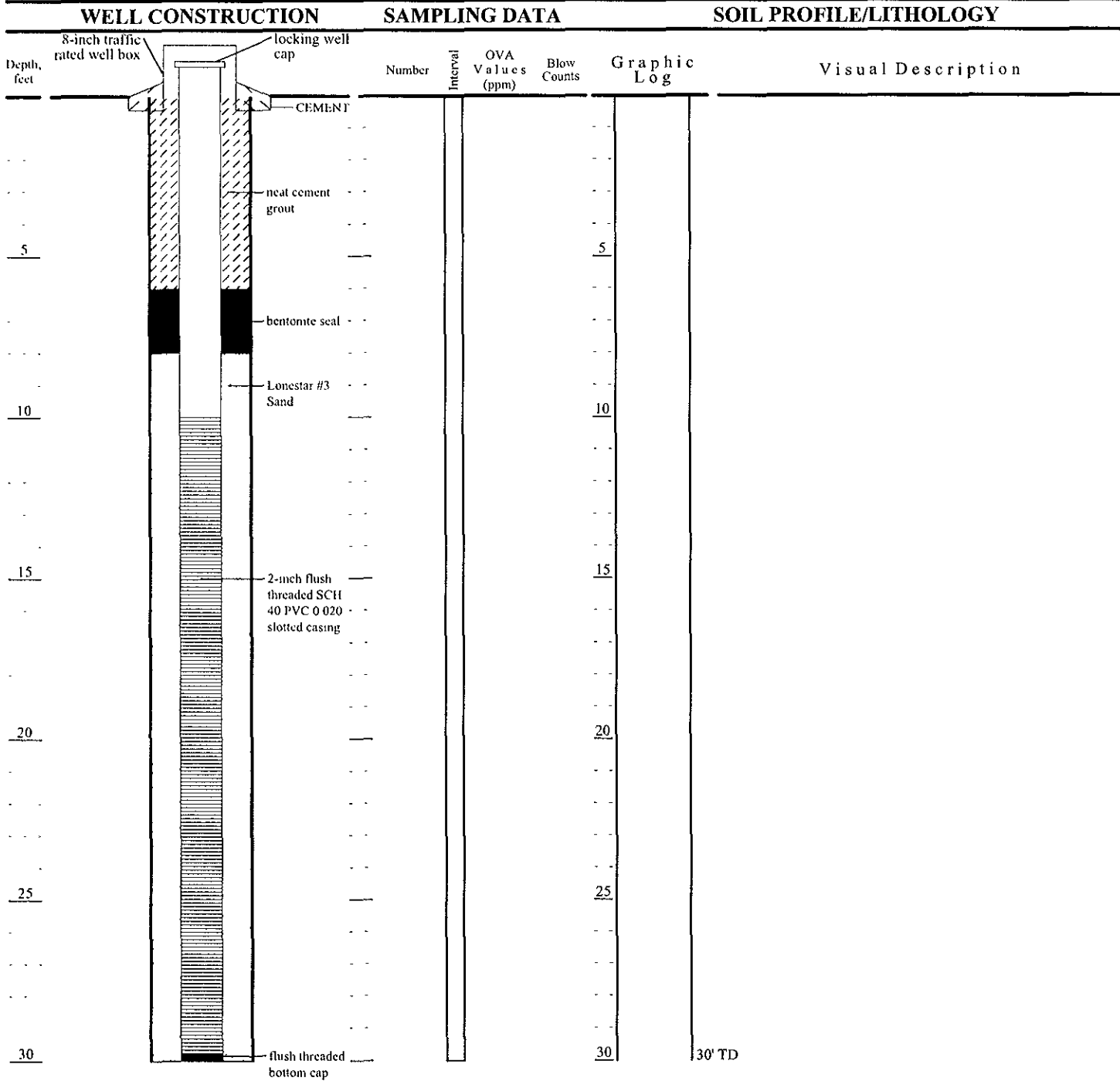
ENCLOSURE D

Log of Borings and Well Construction Details



Delta
Environmental
Consultants, Inc.

Street Address 3810 Broadway	Project ID Former Texaco #211283	
City & State Oakland, California	Surface Elev.	Well / Boring ID MW-5 (B)
Delta Project # D211-283	Casing Elev.	Total Depth 30'

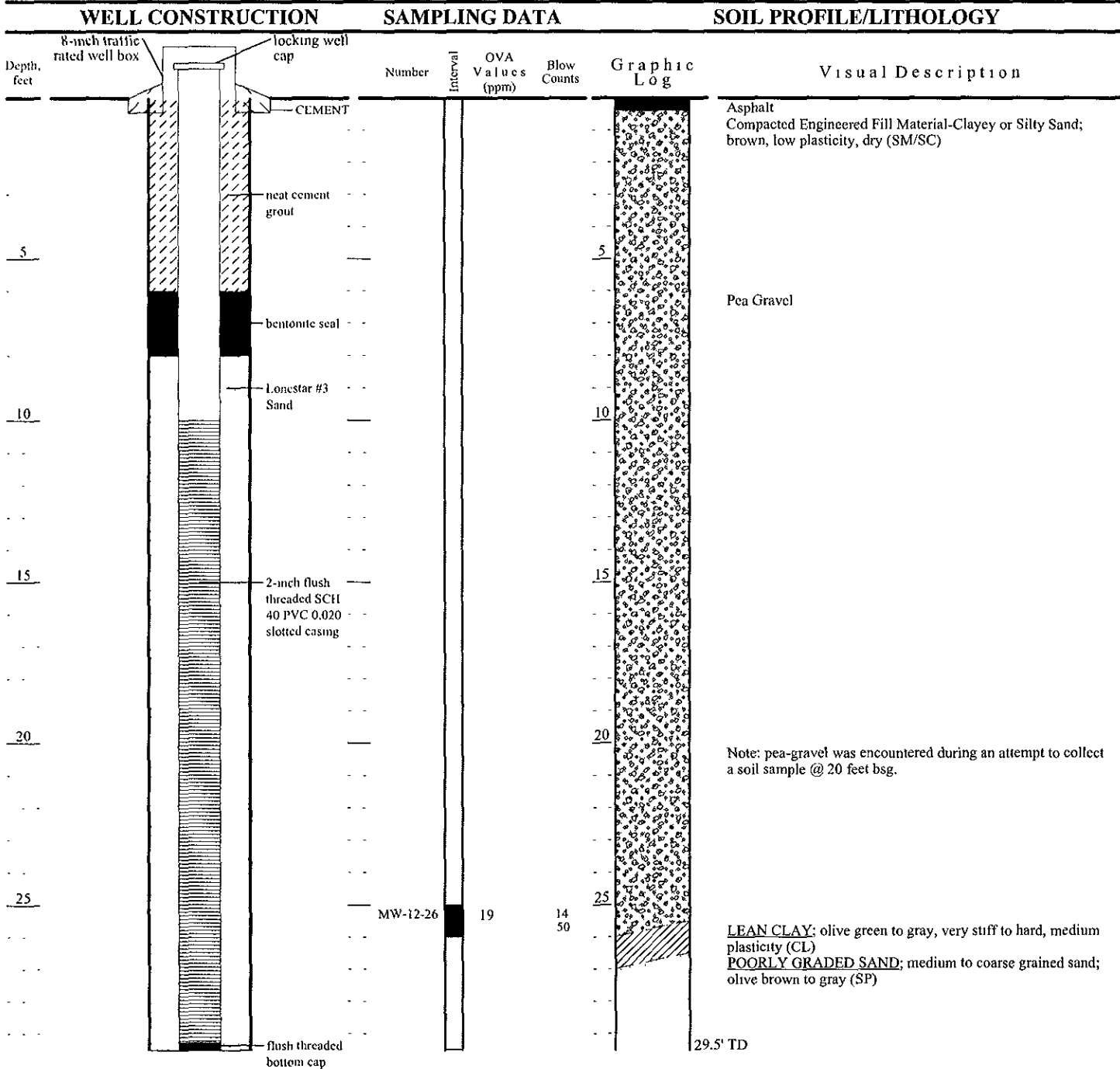


Dates and Times	Logger Will Slowik	Sampling Method & Diameter 2-Inch Split Spoon	Permitting Agency Alameda County Public Works Agency
Start 5/30/02 1130	Drilling Company & Driller Cascade Drilling, Inc., Jaydean	Bore Hole Diameter 8-inches	Permit # W02-0509
Total Depth 5/30/02 1225	Drillers C-57# 717510	Diameter, Type & Slot Size of Casing 2-inch SCH 40 PVC/0.020 slot	
Completion or backfill 5/30/02 1320	Drilling Equipment and method LAR HSA, Hollow Stem Auger		



Delta
Environmental
Consultants, Inc.

Street Address 3810 Broadway		Project ID Former Texaco #211283	
City & State Oakland, California		Surface Elev.	Well / Boring ID MW-12
Delta Project # D211-283		Casing Elev.	Total Depth 29.5'



Dates and Times	Logger Will Stowik	Sampling Method & Diameter 2-Inch Split Spoon	Permitting Agency Alameda County Public Works Agency
Start 5/30/02 1430	Drilling Company & Driller Cascade Drilling, Inc., Jaydean	Bore Hole Diameter 8-inches	Permit # W02-0510
Total Depth 5/30/02 1600	Drillers C-57# 717510	Diameter, Type & Slot Size of Casing 2-inch SCH 40 PVC/0.020 slot	
Completion or backfill 5/30/02 1730	Drilling Equipment and method LAR HSA, Hollow Stem Auger		

ENCLOSURE E

Soil Stockpile Analytical Data



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 809597. Samples arrived at the laboratory on Saturday, June 01, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description

SP-A,B,C,D Composite Soil Sample

Lancaster Labs Number

3828996

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Delta Environmental

Attn: Mr. Ben Heningburg

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

Respectfully Submitted,

Steven A. Skiles
Steven A. Skiles
Sr. Chemist



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

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
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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		
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.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	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
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and 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		

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Lancaster Laboratories Sample No. SW 3828996

Collected: 05/30/2002 13:05 by WS
 through 05/30/2002 16:05
 Submitted: 06/01/2002 10:25
 Reported: 06/05/2002 at 10:34
 Discard: 07/06/2002
 SP-A,B,C,D Composite Soil Sample
 Facility# 211283
 3810 Broadway; Oakland, CA

Account Number: 10900

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01155	Lead (furnace method)	7439-92-1	10.	0.54	mg/kg	5
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	2.1	1.0	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.						
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.						
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	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 Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01155	Lead (furnace method)	SW-846 7421	1	06/04/2002 12:21	Jessica L Boyd	5
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	06/04/2002 03:56	Martha L Seidel	25
02160	BTEX/MTBE	SW-846 8021B	1	06/04/2002 03:56	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	06/03/2002 15:11	Steven A Skiles	n.a.
05710	SW SW846 GFAA Digest	SW-846 3050B	1	06/03/2002 17:45	Megan L Ross	1



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

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C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m³	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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		
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.		
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X,Y,Z Defined in case narrative	

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Client Name: ChevronTexaco
Reported: 06/05/02 at 10:34 AM

Group Number: 809597

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02143A33C	Sample number(s): 3828996							
TPH-GRO - Soils	N.D.	1.	mg/kg	92		75-117		
Benzene	N.D.	.005	mg/kg	117		84-132		
Toluene	N.D.	.005	mg/kg	116		88-116		
Ethylbenzene	N.D.	.005	mg/kg	118		87-127		
Total Xylenes	N.D.	.015	mg/kg	117		88-120		
Batch number: 021545710001	Sample number(s): 3828996							
Lead (furnace method)	N.D.	.11	mg/kg	107		74-126		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	DUP CONC	DUP RPD	Dup RPD Max
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	Max
Batch number: 02143A33C	Sample number(s): 3828996							
TPH-GRO - Soils	79	81	44-116	2	30			
Benzene	111	116	56-142	5	30			
Toluene	85	89	66-120	5	30			
Ethylbenzene	96	102	66-131	5	30			
Total Xylenes	88	92	67-122	5	30			
Batch number: 021545710001	Sample number(s): 3828996							
Lead (furnace method)	(2)	(2)	80-120	8	20	10.	9.3	7 (1) 20

Surrogate Quality Control

Analysis Name: BTEX/MTBE
Batch number: 02143A33C

	Trifluorotoluene-F	Trifluorotoluene-P
3828996	98	114
Blank	83	99
LCS	95	108
MS	94	100
MSD	95	103
Limits:	61-127	68-122

*- 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.



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meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
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J Estimated value	U Compound was not detected
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Facility #: Former Texaco #211283
 Site Address: 3810 Broadway, Oakland, CA
 Chevron PM: Karen Streich Lead Consultant: Delta Environmental
 Consultant/Office: 3164 Gold Camp Drive Ste 200 Rancho Cordova
 Consultant Prj. Mgr.: Todd DeFrato 536-2612
 Consultant Phone #: (916) 536-2612 Fax #: (916) 638-8385
 Sampler: Will Slowik
 Service Order #: _____ Non SAR: _____

Analyses Requested

Preservation Codes

<input checked="" type="checkbox"/> 8260	<input type="checkbox"/> 8021	<input type="checkbox"/> GRO	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input type="checkbox"/> 7421
------------------------------------------	-------------------------------	------------------------------	---------------------------------------------	-----------------------------------------	-------------------------------------	-------------------------------

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
 - Confirm highest hit by 8260
 - Confirm all hits by 8260
 - Run ___ oxy's on highest hit
 - Run ___ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	8260	8021	GRO	Silica Gel Cleanup	8260 full scan	Oxygenates	7421
SP-A	SOIL		NA	02 05 30	1305		X		1	X	X					X
SP-B	SOIL		↓	02 05 30	1514		X		1	X	X					X
SP-C	SOIL		↓	02 05 30	1530		X		1	X	X					X
SP-D	SOIL		↓	02 05 30	16:05		X		1	X	X					X

Comments / Remarks
 COMPOSITE
 4:1

Turnaround Time Requested (TAT) (please circle)
 STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>William Slowik</u>	Date: <u>5/3/02</u>	Time: <u>11:45</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other _____	Temperature Upon Receipt: <u>10.0</u> °C		Received by: <u>Denise Y. Han</u>	Date: <u>5/1/02</u>	Time: <u>1025</u>
Custody Seals Intact? <u>Yes</u> No					

ENCLOSURE F
Certificate of Waste Disposal



INTEGRATED WASTESTREAM MANAGEMENT, INC.
950 AMES AVENUE, MILPITAS, CA 95035
PHONE: 408 942 8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Chevron Products Company
Address: 6001 Bollinger Canyon Road
San Ramon, CA 94583
Contact: Bob Cochran
Phone: 925-842-9500

Facility Name: Chevron #21-1283
Address: 3810 Broadway
Oakland, CA
Facility Contact: Will Slowik
Phone: 916-536-2617

IWM Job #: 92249-DS
Description of Waste: 8 Drum(s) of
Non-Hazardous
Soil
Removal Date: June 7, 2002
Ticket #: RSVRL070602

Transporter Information

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: (408) 942-8955

Disposal Facility Information

Name: Republic Services Vasco Road Landfill
Address: 4001 N. Vasco Road
Livermore, CA 94550
Phone: (925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon *William T. DeLon*
Authorized Representative (Print Name and Signature)

6/7/02
Date

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC.
 950 AMES AVENUE, MILPITAS, CA 95035
 PHONE: 408.942.8959 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name: Chevron Products Company
 Address: 6001 Bollinger Canyon Road
San Ramon, CA 94583
 Contact: Bob Cochran
 Phone: 925-842-9500

Facility Name: Chevron #21-1283
 Address: 3810 Broadway
Oakland, CA
 Facility Contact: Will Slowik
 Phone: 916-536-2317

IWM Job #:	<u>92250-DW</u>
Description of Waste:	<u>2 Drum(s) of</u> <u>Non-Hazardous</u> <u>Water</u>
Removal Date:	<u>June 7, 2002</u>
Ticket #:	<u>MCK070602-CH</u>

Transporter Information

Name: IWM, Inc.
 Address: 950 Ames Avenue
Milpitas, CA 95035
 Phone: (408) 942-8955

Disposal Facility Information

Name: McKittrick Waste Treatment
 Address: 56533 Hwy 58 W
McKittrick, CA 92351
 Phone: (661) 762-7366

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon
William T. DeLon

Authorized Representative (Print Name and Signature)

6/7/02

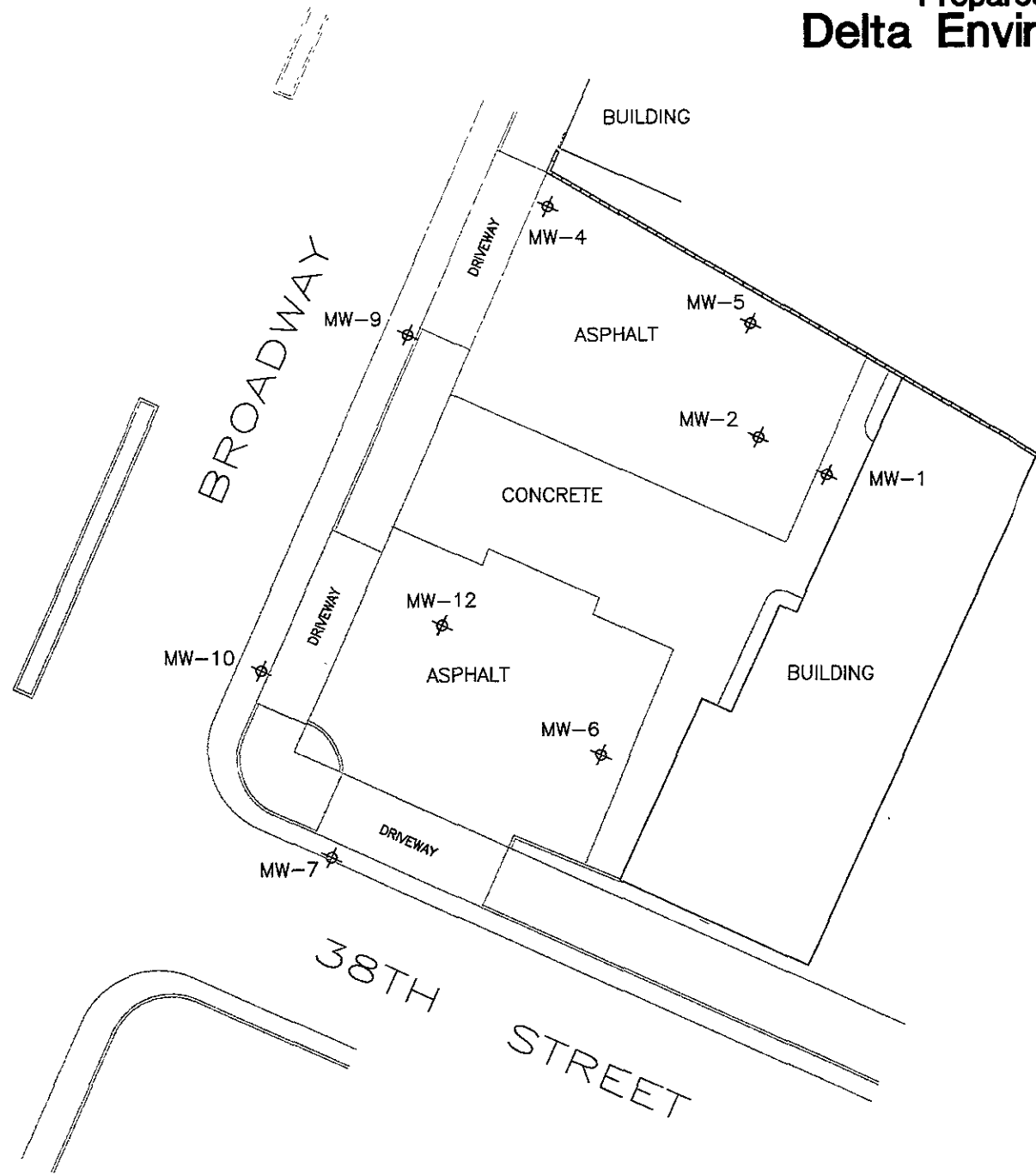
Date

ENCLOSURE G

Well Survey Report

Monitoring Well Exhibit

Prepared for:
Delta Environmental



DESCRIPTION	NORTHING	EASTING	ELEV (PVC)	ELEV (BOX)
MW-1	2128020. 8	6054191. 1	86. 69	87. 03
MW-2	2128027. 7	6054178. 6	85. 83	86. 02
MW-4	2128069. 7	6054140. 6	83. 31	83. 69
MW-5B	2128048. 4	6054177. 3	85. 36	85. 61
MW-6	2127970. 1	6054149. 8	86. 09	86. 63
MW-7	2127951. 5	6054100. 4	84. 11	84. 58
MW-9	2128046. 5	6054114. 7	82. 17	82. 55
MW-10	2127985. 5	6054087. 8	81. 83	82. 19
MW-12	2127993. 7	6054120. 7	84. 19	84. 45
	LATITUDE	LONGITUDE		
MW-1	37. 8260803	-122. 2571521		
MW-2	37. 8260987	-122. 2571958		
MW-4	37. 8262122	-122. 2573303		
MW-5B	37. 8261556	-122. 2572017		
MW-6	37. 8259390	-122. 2572917		
MW-7	37. 8258854	-122. 2574617		
MW-9	37. 8261471	-122. 2574183		
MW-10	37. 8259782	-122. 2575076		
MW-12	37. 8260024	-122. 2573940		

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000. 35. COORDINATE DATUM IS NAD 83(1986) DATUM ELLIPSOID IS GRS80 REFERENCE GEDID IS NGS99

CORS STATIONS USED WERE FARB AND POTB.

ELEVATIONS ARE BASED ON OAKLAND BENCHMARK.



Former Texaco 21-1283
3810 Broadway
Oakland
Alameda County
California



**Morrow
Surveying**

1450 Harbor Blvd Ste D
West Sacramento
California 95691
(916) 372-8124
tom@morrowssurveying.com

Date: 06/24/02
Scale 1" = 30'
Sheet 1 of 1
Revised
Field Book MW-8
Dwg No 1275-049DT

ENCLOSURE H

Groundwater Monitoring and
Well Development Data Sheets



GETTLER-RYAN INC.

GROUNDWATER MONITORING SUMMARY SHEET

CLIENT/
 FACILITY: ChevronTexaco #211283
 ADDRESS: 3810 Broadway
 CITY: Oakland, CA

JOB #: 386956
 DATE: 6.25.02
 SAMPLER: TC

Well ID	Total Well Depth	Depth to Water	Product Thickness (ft)	List Item IN Well	Additional Comments	
MW-1	29.95	21.64	Ø		BENT CASING	
MW-4	28.56	18.39	| | | | | | | | | | | | ↓			
MW-5B	30.35	20.48				
MW-6	27.51	21.13		STEPPER		
MW-7	33.50	19.30				
MW-9	34.10	17.12				
MW-10	33.10	16.93				
MW-11	39.50	25.51				
MW-12	29.62	18.65			Development	

Comments Took total well Depth.

FIELD DATA SHEET

Client/
 Facility Chevron/Texaco #211283
 Address: 3810 Broadway
 City: Oakland, CA

Job#: 386956
 Date: 6-25-02
 Sampler: TL

Well ID MW-12

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)

c-development →

Total Depth 29.50 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

Depth to Water 18.65 ft.

10.85 x VF 1.7 = 1.8 ^{X10} (case volume) = Estimated Purge Volume: 18 1/2 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
Suction
 Grundfos
 Other: 2" steel Bailer

Sampling Equipment: ~~Disposable Bailer~~
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 1431
 Sampling Time: 1510
 Purging Flow Rate: 2.0 gpm.
 Did well de-water? NO

Weather Conditions: Sunny
 Water Color: Brown Odor: YES
 Sediment Description: silty
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1438</u>	<u>2.0</u>	<u>8.48</u>	<u>530</u>	<u>81.0</u>			
<u>1442</u>	<u>4.0</u>	<u>8.20</u>	<u>514</u>	<u>72.5</u>			
<u>1450</u>	<u>6.0</u>	<u>8.15</u>	<u>507</u>	<u>70.0</u>			
<u>1451</u>	<u>8.0</u>	<u>8.02</u>	<u>552</u>	<u>68.6</u>			
<u>1452</u>	<u>10.0</u>	<u>8.04</u>	<u>481</u>	<u>68.8</u>			
<u>1453</u>	<u>12.0</u>	<u>7.92</u>	<u>462</u>	<u>67.6</u>			
<u>1454</u>	<u>14.0</u>	<u>7.74</u>	<u>415</u>	<u>67.2</u>			
<u>1455</u>	<u>16.0</u>	<u>7.52</u>	<u>464</u>	<u>66.9</u>			
<u>1456</u>	<u>18.0</u>	<u>7.48</u>	<u>510</u>	<u>67.1</u>			
<u>1457</u>	<u>18.5</u>	<u>7.50</u>	<u>521</u>	<u>66.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>7 X VOA VIALS</u>	<u>Y</u>	<u>HCL</u>	<u>Lancaster</u>	<u>TPH G/BTEX/MTBE</u>
<u>MW-12</u>	<u>2X Amber</u>	<u>Y</u>	<u>NP</u>	<u>Lancaster</u>	<u>TPH-DRO</u>

COMMENTS: Well cleaned up good at 18 1/2 gal. water was almost clean after development
well depth after development = 29.62 replaced lock 3910

FIELD DATA SHEET

Client/
 Facility ChevronTexaco #211283
 Address: 3810 Broadway
 City: Oakland, CA

Job#: 386956
 Date: 6-25-02
 Sampler: TC

Well ID MW-5B

Well Condition: ok

Well Diameter 2 in.

Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)

Pre-Development Total Depth 30.00 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

Depth to Water 20.48 ft.

9.52 X VF .17 = 1.61 X 10 (case volume) = Estimated Purge Volume: 16 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
~~Suction~~
 Grundfos
 Other: 2" steel Bailer

Sampling Equipment: ~~Disposable Bailer~~
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 1540
 Sampling Time: 1620
 Purging Flow Rate: 1.5 gpm.
 Did well de-water? NO

Weather Conditions: SUNNY
 Water Color: Cloudy Odor: SLIGHT
 Sediment Description: _____
 If yes: Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1547	1.5	7.86	1010	74.7			
1553	3.0	7.42	986	72.2			
1558	4.5	7.50	938	69.0			
1559	6.0	7.40	969	68.7			
1600	7.5	7.32	962	68.2			
1601	9.0	7.40	976	69.2			
1602	10.5	7.31	985	69.5			
1603	12.0	7.24	992	69.1			
1604	13.5	7.22	991	70.2			
1606	16.0	7.16	996	70.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5B	3 X VOA VIALS	Y	HCL	Lancaster	TPH G/BTEX/MTBE
MW-5B	2 X Amber	Y	NP	Lancaster	TPH-DRO

COMMENTS: well cleaned-up good at 16 gal. water was a little cloudy - After Development Dept = 30.35

ENCLOSURE I

Groundwater Analytical Data



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 812857. Samples arrived at the laboratory on Thursday, June 27, 2002. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
QA-T-020625	NA	Water	3843046
MW-1-W-020625	Grab	Water	3843047
MW-4-W-020625	Grab	Water	3843048
MW-5B-W-020625	Grab	Water	3843049
MW-6-W-020625	Grab	Water	3843050
MW-7-W-020625	Grab	Water	3843051
MW-9-W-020625	Grab	Water	3843052
MW-10-W-020625	Grab	Water	3843053
MW-11-W-020625	Grab	Water	3843054
MW-12-W-020625	Grab	Water	3843055

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding



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

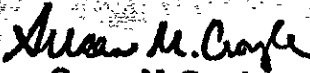


Lancaster Laboratories

Where quality is a science.

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

Respectfully Submitted,


Susan M. Croyle
Sr. Chemist/Coordinator



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



Lancaster Laboratories Sample No. WW 3843046

Collected: 06/25/2002 00:00

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

QA-T-020625

NA

Water

Facility# 211283

Job# 386956

GRD

3810 Broadway-Oakland

T00600101108 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	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.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	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.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002 06:21	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002 06:21	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002 06:21	Patrick N Evans	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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



Lancaster Laboratories Sample No. WW 3843047

Collected: 06/25/2002 14:15 by TC Account Number: 10905

Submitted: 06/27/2002 09:30
 Reported: 07/12/2002 at 11:45
 Discard: 08/12/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

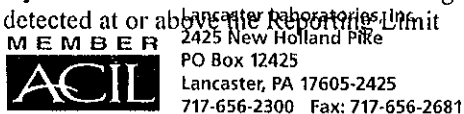
MW-1-W-020625 Grab Water
 Facility# 211283 Job# 386956 GRD
 3810 Broadway-Oakland T0060.0101108 MW-1

283Ml

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	490.	50.	ug/l	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). 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. Due to interferences from the sample matrix (high sediment content), the reporting limit was increased. The observed sample pattern is not typical of diesel/#2 fuel oil.						
01729	TPH-GRO - Waters					
01730	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.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
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.						

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected at or above the Reporting Limit





Lancaster Laboratories Sample No. WW 3843047

Collected: 06/25/2002 14:15 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-1-W-020625

Grab Water

Facility# 211283

Job# 386956

GRD

3810 Broadway-Oakland T00600101108 MW-1

283M1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002	21:59	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002	12:49	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002	12:49	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002	12:49	Patrick N Evans	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002	01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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



Lancaster Laboratories Sample No. WW 3843048

Collected: 06/25/2002 13:37 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-4-W-020625

Grab Water

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T00600101108 MW-4

283M4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	250.	50.	ug/l	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). 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	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.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
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.						


State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
---------	---------------	--------	--------	------------------------	---------	-----------------

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit


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



Lancaster Laboratories Sample No. WW 3843048

Collected: 06/25/2002 13:37 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94585

MW-4-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-4

283M4

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/03/2002 21:16	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002 13:24	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002 13:24	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002 13:24	Patrick N Evans	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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



Lancaster Laboratories Sample No. WW 3843049

Collected: 06/25/2002 16:20 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-5B-W-020625

Grab Water

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T00600101108 MW-5B

2835B

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	320.	50.	ug/l	1
<p>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).</p> <p>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.</p>						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	660.	50.	ug/l	1
<p>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.</p> <p>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.</p>						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	89.	0.50	ug/l	1
00777	Toluene	108-88-3	1.9	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	39.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	11.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	130.	2.5	ug/l	1
<p>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.</p>						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit

MEMBER

 2425 New Holland Pike
 PO Box 12425
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 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3843049

Collected: 06/25/2002 16:20 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-5B-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-5B

2835B

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002 19:00	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002 16:20	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002 16:20	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002 16:20	Patrick N Evans	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843050

Collected: 06/25/2002 12:59 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30
 Reported: 07/12/2002 at 11:45
 Discard: 08/12/2002

ChevronTexaco
 6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

MW-6-W-020625 Grab Water
 Facility# 211283 Job# 386956 GRD
 3810 Broadway-Oakland T00600101108 MW-6

283M6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	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 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.	n.a.	2,500.	130.	ug/l	5
01729	TPH-GRO - Waters					
01730	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. 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.	n.a.	21,000.	500.	ug/l	10
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	2,200.	2.0	ug/l	10
00777	Toluene	108-88-3	1,800.	2.0	ug/l	10
00778	Ethylbenzene	100-41-4	850.	2.0	ug/l	10
00779	Total Xylenes	1330-20-7	2,100.	6.0	ug/l	10
00780	Methyl tert-Butyl Ether 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.	1634-04-4	N.D. #	100.	ug/l	10

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

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#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843050

Collected: 06/25/2002 12:59 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-6-W-020625

Grab Water

Facility# 211283

Job# 386956

GRD

3810 Broadway-Oakland

T00600101108 MW-6

283M6

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/03/2002 20:54	Devin M Lahr	5
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002 20:31	Patrick N Evans	10
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002 20:31	Patrick N Evans	10
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002 20:31	Patrick N Evans	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843051

Collected: 06/25/2002 10:44 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-7-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-7

283M7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
<p>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).</p> <p>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.</p>						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
<p>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.</p> <p>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.</p>						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
<p>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.</p>						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843051

Collected: 06/25/2002 10:44 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

Reported: 07/12/2002 at 11:45

Discard: 08/12/2002

MW-7-W-020625

Grab Water

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T00600101108 MW-7

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

283M7

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002 19:22	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002 13:59	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002 13:59	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002 13:59	Patrick N Evans	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843052

Collected: 06/25/2002 12:08 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-9-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-9

283M9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	100.	50.	ug/l	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). 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	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.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
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.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3843052

Collected: 06/25/2002 12:08 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:45

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-9-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

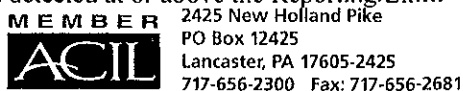
3810 Broadway-Oakland T00600101108 MW-9

283M9

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002 19:44	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/01/2002 14:34	Patrick N Evans	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/01/2002 14:34	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/01/2002 14:34	Patrick N Evans	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit





Lancaster Laboratories Sample No. **WW 3843053**

Collected: 06/25/2002 11:25 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:46

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-10-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-10

28310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	180.	50.	ug/l	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). 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	n.a.	810.	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.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	180.	0.50	ug/l	1
00777	Toluene	108-88-3	3.2	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	17.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	8.0	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
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.						

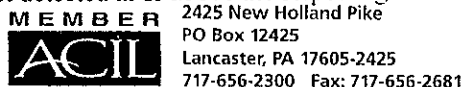
State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit





Lancaster Laboratories Sample No. WW 3843053

Collected: 06/25/2002 11:25 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:46

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-10-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-10

28310

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002 20:52	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/02/2002 12:27	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/02/2002 12:27	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/02/2002 12:27	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	Joella L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843054

Collected: 06/25/2002 10:05 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:46

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-11-W-020625

Grab Water

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T00600101108 MW-11

28311

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	N.D.	50.	ug/l	1
<p>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).</p> <p>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.</p>						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
<p>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.</p> <p>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.</p>						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
<p>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.</p>						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



Lancaster Laboratories, Inc.
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Lancaster Laboratories Sample No. WW 3843054

Collected: 06/25/2002 10:05 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

ChevronTexaco

Reported: 07/12/2002 at 11:46

6001 Bollinger Canyon Rd L4310

Discard: 08/12/2002

San Ramon CA 94583

MW-11-W-020625 Grab Water

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T00600101108 MW-11

28311

ID	Method	Sample	Count	Date/Time	Analyst	Result
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002 21:14	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/02/2002 11:16	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/02/2002 11:16	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/02/2002 11:16	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. WW 3843055

Collected: 06/25/2002 15:10 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

Reported: 07/12/2002 at 11:46

Discard: 08/12/2002

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-12-W-020625 Grab Water
 Facility# 211283 Job# 386956 GRD
 3810 Broadway-Oakland T00600101108 MW-12

28312

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	410.	50.	ug/l	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). 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	n.a.	1,000.	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.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	340.	0.50	ug/l	1
00777	Toluene	108-88-3	8.2	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	16.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	8.3	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	11.	2.5	ug/l	1
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.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit

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 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3843055

Collected: 06/25/2002 15:10 by TC

Account Number: 10905

Submitted: 06/27/2002 09:30

Reported: 07/12/2002 at 11:46

Discard: 08/12/2002

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

MW-12-W-020625 Grab Water
Facility# 211283 Job# 386956 GRD
3810 Broadway-Oakland T00600101108 MW-12

28312

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	07/02/2002 22:44	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/03/2002 03:31	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/03/2002 03:31	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/03/2002 03:31	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	07/01/2002 01:50	JoElla L Rice	1

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit



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



Quality Control Summary

Client Name: ChevronTexaco
 Reported: 07/12/02 at 11:46 AM

Group Number: 812857

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 021800004A Sample number(s): 3843047-3843055								
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	81	77	54-120	5	20
Batch number: 02181A56A Sample number(s): 3843046-3843049,3843051-3843052								
Benzene	N.D.	0.5	ug/l	95	91	80-118	4	30
Toluene	N.D.	0.5	ug/l	101	97	82-119	4	30
Ethylbenzene	N.D.	0.5	ug/l	100	96	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	100	97	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	91	91	79-127	0	30
TPH-GRO - Waters	N.D.	50.	ug/l	97	93	76-126	4	30
Batch number: 02181A56B Sample number(s): 3843050								
Benzene	N.D.	0.5	ug/l	95	91	80-118	4	30
Toluene	N.D.	0.5	ug/l	101	97	82-119	4	30
Ethylbenzene	N.D.	0.5	ug/l	100	96	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	100	97	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	91	91	79-127	0	30
TPH-GRO - Waters	N.D.	50.	ug/l	97	93	76-126	4	30
Batch number: 02183A56A Sample number(s): 3843053-3843054								
Benzene	N.D.	0.5	ug/l	101	104	80-118	3	30
Toluene	N.D.	0.5	ug/l	102	107	82-119	4	30
Ethylbenzene	N.D.	0.5	ug/l	104	108	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	103	108	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	102	97	79-127	5	30
TPH-GRO - Waters	N.D.	50.	ug/l	96	100	76-126	4	30
Batch number: 02183A56B Sample number(s): 3843055								
Benzene	N.D.	0.5	ug/l	101	104	80-118	3	30
Toluene	N.D.	0.5	ug/l	102	107	82-119	4	30
Ethylbenzene	N.D.	0.5	ug/l	104	108	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	103	108	82-120	4	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	102	97	79-127	5	30
TPH-GRO - Waters	N.D.	50.	ug/l	96	100	76-126	4	30

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02181A56A Sample number(s): 3843046-3843049,3843051-3843052								
Benzene	106		77-131					
Toluene	110		80-128					
Ethylbenzene	112		76-132					
Total Xylenes	111		76-132					

*- 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.





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Quality Control Summary

Client Name: ChevronTexaco
 Reported: 07/12/02 at 11:46 AM

Group Number: 812857

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD
								Max
Methyl tert-Butyl Ether	92		61-144					
TPH-GRO - Waters	92		74-132					
Batch number: 02181A56B		Sample number(s): 3843050						
Benzene	106		77-131					
Toluene	110		80-128					
Ethylbenzene	112		76-132					
Total Xylenes	111		76-132					
Methyl tert-Butyl Ether	92		61-144					
TPH-GRO - Waters	92		74-132					
Batch number: 02183A56A		Sample number(s): 3843053-3843054						
Benzene	102		77-131					
Toluene	104		80-128					
Ethylbenzene	104		76-132					
Total Xylenes	104		76-132					
Methyl tert-Butyl Ether	86		61-144					
TPH-GRO - Waters	91		74-132					
Batch number: 02183A56B		Sample number(s): 3843055						
Benzene	102		77-131					
Toluene	104		80-128					
Ethylbenzene	104		76-132					
Total Xylenes	104		76-132					
Methyl tert-Butyl Ether	86		61-144					
TPH-GRO - Waters	91		74-132					

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Waters)
 Batch number: 021800004A
 Orthoterphenyl

3843047	87
3843048	59
3843049	91
3843050	86
3843051	90
3843052	94
3843053	103
3843054	93
3843055	99
Blank	96
LCS	91
LCSD	88

*- 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.



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 2425 New Holland Pike
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Quality Control Summary

Client Name: ChevronTexaco
Reported: 07/12/02 at 11:46 AM

Group Number: 812857

Surrogate Quality Control

Limits: 59-139

Analysis Name: TPH-GRO - Waters
Batch number: 02181A56A

	Trifluorotoluene-F	Trifluorotoluene-P
3843046	93	98
3843047	92	98
3843048	95	96
3843049	95	99
3843051	91	97
3843052	95	97
Blank	92	97
LCS	105	98
LCSD	101	98
MS	102	98

Limits: 67-135 71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02181A56B

	Trifluorotoluene-F	Trifluorotoluene-P
3843050	98	106
Blank	93	97
LCS	105	98
LCSD	101	98
MS	102	98

Limits: 67-135 71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02183A56A

	Trifluorotoluene-F	Trifluorotoluene-P
3843053	98	99
3843054	90	98
Blank	92	97
LCS	105	99
LCSD	111	97
MS	104	98

Limits: 67-135 71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02183A56B

	Trifluorotoluene-F	Trifluorotoluene-P
3843055	98	95
Blank	90	96
LCS	105	99

*- 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.





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Page 4 of 4

Quality Control Summary

Client Name: ChevronTexaco
Reported: 07/12/02 at 11:46 AM

Group Number: 812857

Surrogate Quality Control

LCS	111	97
MS	104	98

Limits:	67-135	71-130
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*- 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.
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Chevron California Region Analysis Request/Chain of Custody



gr# 812857
062602-005

For Lancaster Laboratories use only
 Acct. #: 10905 Sample #: 3843046-55 SCR#: _____

Facility #: 211283 Job #386956 Global ID#T00600101108 Site Address: 3810 BROADWAY, OAKLAND, CA Chevron PM: K.STREICH Lead Consultant: DELTA Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568 Consultant Prj. Mgr: Deanna L. Harding (Deanna@grinc.com) Consultant Phone: 925-551-7555 Fax #: 925-551-7899 Sampler: <u>TONY CAMARDA</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____			Matrix Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Total Number of Containers: _____		Analyses Requested <table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="2">Preservation Codes</th> <th colspan="2">A</th> <th colspan="2">H</th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> </tr> <tr> <td>BTEX + MTBE 8260</td> <td><input checked="" type="checkbox"/> 8021X</td> <td>TPH 8015 MOD</td> <td>GRO</td> <td>TPH 8015 MOD DRO</td> <td><input type="checkbox"/> Silica Gel Cleanup</td> <td>8260 full scan</td> <td>Oxygenates</td> <td>Lead 7420</td> <td><input type="checkbox"/> 7421</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								Preservation Codes		A		H												BTEX + MTBE 8260	<input checked="" type="checkbox"/> 8021X	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	<input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	<input type="checkbox"/> 7421							Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy s on highest hit <input type="checkbox"/> Run ___ oxy s on all hits	
Preservation Codes		A		H																																										
BTEX + MTBE 8260	<input checked="" type="checkbox"/> 8021X	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	<input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	<input type="checkbox"/> 7421																																					
Sample Identification			Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421	Comments / Remarks																											
DA			6-25-02				X				2	X	X																																	
MW-1				1415	X		X				5	X	X	X																																
MW-4				1337	X		X				5	X	X	X																																
MW-5B				1620	X		X				5	X	X	X																																
MW-6				1259	X		X				5	X	X	X																																
MW-7				1044	X		X				5	X	X	X																																
MW-9				1208	X		X				5	X	X	X																																
MW-10				1125	X		X				5	X	X	X																																
MW-11				1005	X		X				5	X	X	X																																
MW-12				1510	X		X				5	X	X	X																																

Turnaround Time Requested (TAT) (please circle)

STD. TAT 24 hour
 72 hour
 48 hour
 4 day
 5 day

Data Package Options (please circle if required)

QC Summary Type I — Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>Tony Camarda</u>	Date: 6-25-02	Time: 1745	Received by: <u>Diane</u>	Date: 6-26-02	Time: 1200
Relinquished by: <u>Diane</u>	Date: 6-26-02	Time: 1200	Received by: <u>Amber Amaze</u>	Date: 6-26-02	Time: 1200
Relinquished by: <u>Amber Amaze</u>	Date: 6-26-02	Time: 1500	Received by: <u>Airborne</u>	Date: 6-26-02	Time: _____
Relinquished by Commercial Carrier: UPS	FedEx <input type="checkbox"/> Other <input checked="" type="checkbox"/> Airborne		Received by: <u>Diane</u>	Date: 6-26-02	Time: 0930
Temperature Upon Receipt: 2.5-5 °C			Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		