Chevron Environmental Management Company
6001 Bollinger Canyon Rd, K2236
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-9559
Fax 925-842-8370

Dana Thurman
Project Manager

ChevronTexaco

March 2, 2006
(date)

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

Re: Chevron Service Station # 9-5542

Address: 7007 San Ramon Road, Dublin, California

I have reviewed the attached report titled Subsurface Investigation and Well Destruction Report and dated March 2, 2006.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Cambria Environmental Technology, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Dana Thurman
Project Manager

Enclosure: Report

CAMBRIA

March 2, 2006

Mr. Barney Chan
Alameda County Health Care Services Agency (ACHCSA)
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Subsurface Investigation and Well Destruction Report**
Chevron Service Station 9-5542
7007 San Ramon Road
Dublin, California

Dear Mr. Chan,

On behalf of Chevron Environmental Management Company (Chevron), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Subsurface Investigation and Well Destruction Report* and for the site referenced above. The work was proposed in Cambria's workplan dated May 4, 2005 and was approved by the ACHCSA in a letter dated October 24, 2005 (Attachment A). The purpose of the investigation was to define the lateral and vertical extent of hydrocarbon impact at the site. The site background, details of this investigation and Cambria's conclusions and recommendations are presented below.

SITE BACKGROUND

The site is an active Chevron branded service station located on the northeast corner of the intersection of San Ramon Road and Dublin Boulevard in Dublin, California. The surrounding land use is primarily commercial with residential to the northwest. In February 1990, the existing service station was remodeled and the underground storage tanks (USTs) and product lines were removed and replaced. Chevron records indicate the property was leased by Chevron in 1965 at which time a station was constructed and operations began. Chevron purchased the property in 1990, coincidental with the station remodel referenced above.

Site Description: On-site facilities consist of a station building with three dispenser islands beneath a common canopy (Figure 2). Three gasoline USTs in a common pit are located directly east of the dispenser islands. Former gasoline and used-oil USTs were located northeast of the current dispenser islands (north of the current USTs). The site is located along the western edge of the Livermore Valley at the base of the eastern slope of the East Bay Hills.

Cambria Environmental Technology, Inc.

2000 Opportunity Drive
Suite 110
Roseville, CA 95678
Tel (916) 677-3407
Fax (916) 677-3687

The site resides at an elevation of approximately 360 feet above mean sea level with local topography gently sloping eastward toward San Ramon Creek, approximately 2,900 feet east, which appears to be the bottom of the valley. The nearest surface water is Dublin Creek located approximately 900 feet south of the site. California Department of Water Resources well search data show no domestic or municipal supply wells exist within a 2,000 feet radius of the site.

Site Hydrogeology: Sediments beneath the site are characterized as alluvial fan deposits, consisting primarily of silt, silty clay, sandy clay, silty sand, clayey sand and occasional gravel lenses. Groundwater beneath the site has varied from approximately 15 feet below grade (fbg) to approximately 28 fbg. Groundwater flow direction beneath the site has typically been to the east and southeast.

INVESTIGATION RESULTS

The objective of this investigation was to define the lateral and vertical extent of hydrocarbons in groundwater. To meet this objective, Cambria advanced three cone penetration test (CPT) borings, CPT-1 through CPT-3 (Figure 2) to approximately 65 fbg to target moderate to high permeable soils for groundwater sampling.

Discrete-groundwater results are summarized in Table 1. Soil boring permit and CPT logs are presented in Attachment B. Analytical reports for groundwater samples are presented in Attachment C.

Additionally, monitoring wells MW-7, MW-8 and MW-9 were properly destroyed to facilitate construction activities on the See's Candies property to the east, and monitoring wells MW-6 and MW-10 were destroyed due to well established limits to the hydrocarbon plume. Prior to destroying well MW-9, benzene concentrations reported on September 2, 2005 were compared to ESL's for commercial/industrial land use, indoor air impact. The benzene concentration in groundwater was 340 µg/L, which is well below the ESL of 6,400 µg/L for low to moderate permeability soils. Department of Water Resources (DWR) Well Completion Reports are presented in Attachment D. The results of Cambria's January 17 through 20, 2006 subsurface investigations are summarized below.

CPT BORINGS

Permits: Alameda County Flood Control and Water Conservation District #26009 and City of Dublin Public Works Department Encroachment Permit #05-68 (Attachment B)

Drilling Dates: January 17 through 20, 2006.

Drilling Company: Gregg Drilling of Martinez, CA (C-57 Lic. #485165)

Sampling Personnel: Senior Staff Scientist Kiersten Hoey and Staff Scientist Leon Gearhart conducted fieldwork under the supervision of Senior Project Geologist David Herzog (PG#7211).

Number of CPT Borings: Three CPT borings (CPT-1 through CPT-3).

Drilling Method: The first 8 feet of each CPT boring was cleared using a hand auger. Below 8 feet, the borings were advanced to approximately 65 fbg using a CPT rig.

Encountered Lithology: Lithology encountered in the CPT borings predominantly consisted of layers of clayey silt and silty clay interbedded with layers of silt and clay to the maximum explored depth of 65 fbg.

GROUNDWATER SAMPLING

Groundwater: CPT-1 and CPT-3 had a well defined upper water bearing zone at 45 fbg. The upper water bearing zone was not as well defined in boring CPT-2, subsequently the attempted sample at 30 fbg resulted in no recovery. Two other zones of generally decreasing pore pressure were interpreted at approximately 53 fbg and 59 fbg.

Depth-Discrete Groundwater Samples: Grab-groundwater samples were collected at discrete depths of 46 fbg, 55 fbg, and 65 fbg in CPT-1, at 52 fbg, and 63 fbg in CPT-2, and at 42 fbg, 55 fbg, and 65 fbg in CPT-3.

Grab-Groundwater Sampling Technique: The depth-discrete grab-groundwater samples from each boring were collected using a hydropunch sampler. The water was decanted into sample containers provided by Lancaster Laboratories of Lancaster, Pennsylvania.

Laboratory Analyses: All grab-groundwater samples were analyzed for:

- TPHg by N. CA LUFT Method
- BTEX, MTBE, EDB, 1,2-DCA, ETBE, TAME, DIPE, and TBA by EPA Method 8260B.

Soil Disposal: No waste was generated during subsurface investigation.

MONITORING WELL DESTRUCTIONS

Well Destruction: Monitoring wells MW-6 through MW-10 were properly destroyed by overdrilling the top 3 feet of the well casing, using a tremie pipe to fill the remaining PVC casing with Portland I/II cement, applying 25 pounds per square inch of pressure for approximately five minutes, removing the well boxes, and capping the destroyed wells with concrete or asphalt. Cambria's *Standard Operating Procedures for Well Destructions* are presented as Attachment E.

HYDROCARBON EXTENT IN DOWN-GRADIENT GROUNDWATER

Analytical Results for Groundwater								
Sample I.D.	TPHg	Benzene	Toluene	Ethlybenzene	Xylenes	MTBE	1,2-DCA	EDB
CPT-1 @ 46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CPT-1 @ 55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CPT-1 @ 65	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CPT-2 @ 52	**1,000**	**1**	<0.5	**22**	**120**	<0.5	<0.5	<0.5
CPT-2 @ 63	**170**	<0.5	<0.5	**1**	**2**	<0.5	<0.5	<0.5
CPT-3 @ 42	<50	<3	<3	<3	<3	<3	**3**	<3
CPT-3 @ 55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CPT-3 @ 65	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

No TPHg, BTEX, or MTBE was reported in discrete-groundwater samples from CPT-1 and CPT-3 samples. CPT-2 reported maximum concentrations of TPHg and benzene of 1,000 µg/L and 1 µg/L, respectively. CPT-2 reported decreasing concentrations below 52 fbg.

CPT-1 appears to define the cross-gradient extent of TPHg and benzene to the south in all three depth discrete groundwater zones sampled, and suggests that a release from existing fuelling facilities has not taken place. CPT-3 appears to define hydrocarbons in the middle and lower water bearing zones down gradient of the site.

CONCLUSIONS

Data from this investigation and previous quarterly monitoring suggests the lateral extent of hydrocarbons in groundwater down gradient to the south and the east has been defined. Due to the elevated TPHg in CPT-2, Cambria recommends the installation of an additional monitoring well into the lower water bearing zone to further evaluate the extent of the hydrocarbon plume near its maximum down gradient extent. Cambria will propose the installation of this well in a separate report.

LIMITATIONS

The services described in this assessment report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. Summary of previous investigations contained in this report are generally excerpted from existing

documents supplied by Chevron, and Cambria does not guarantee their completeness or accuracy. This report is solely for the use and information of our client unless otherwise noted.

CLOSING

Cambria appreciates the opportunity to work on this project. Please contact Leon Gearhart at (916) 677-3407 ext. 115 with any questions or concerns.

Sincerely,
Cambria Environmental Technology, Inc.

Leon Gearhart
Staff Scientist

David W. Herzog, PG#7211
Senior Project Geologist

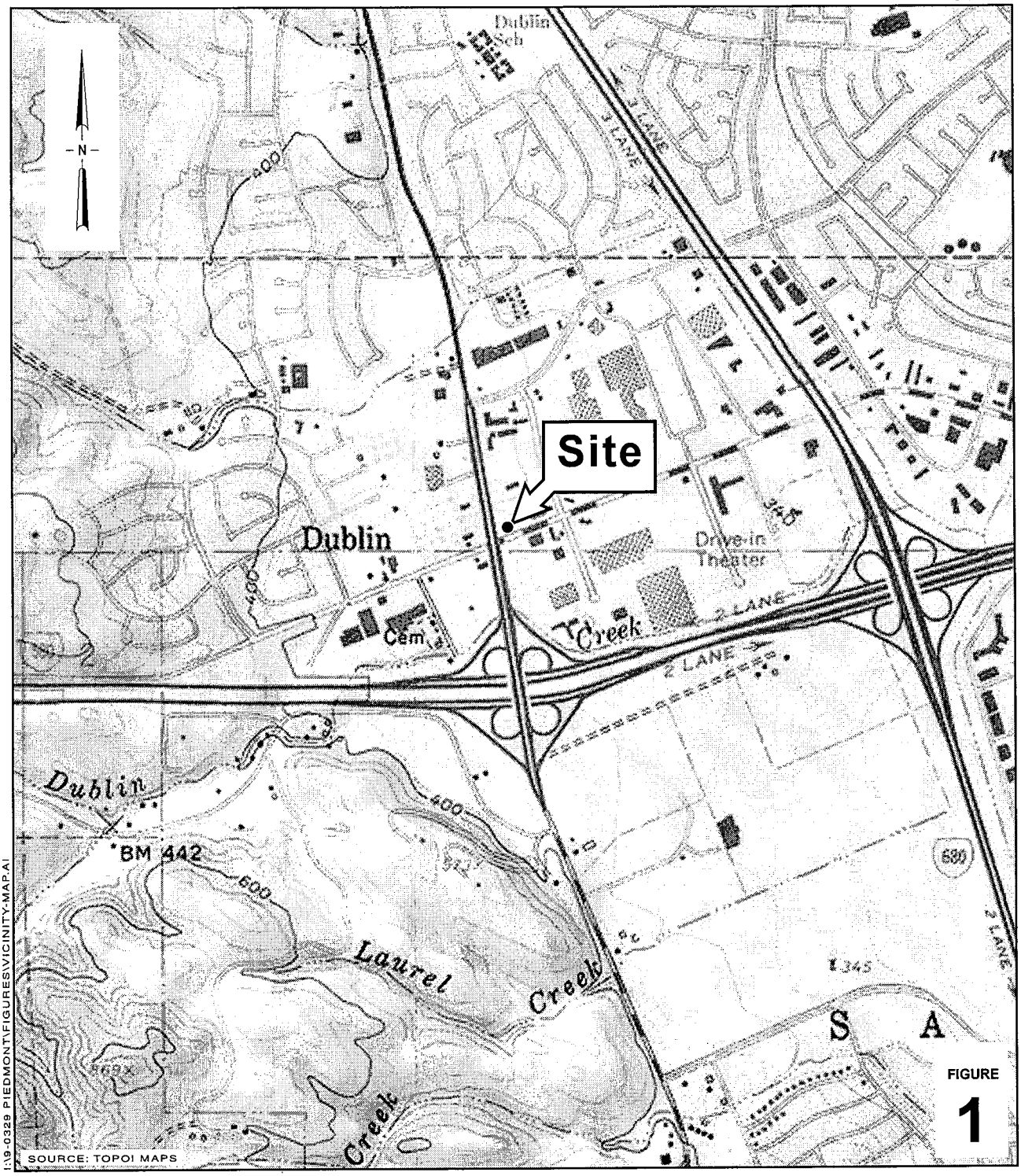
Figures: 1 – Vicinity Map
2 – Site Map

Tables: 1 – Discrete-Groundwater Sample Results

Attachments: A – Regulatory Correspondence
B – CPT Logs and Permits
C – Laboratory Analytical Reports
D – DWR Well Completion Reports
E – Standard Field Procedures

cc: Mr. Dana Thurman, Chevron Products Company, P.O. Box 6012, San Ramon, CA 94583
Mr. Tim Kircher, See's Candies, 400 Allan St., Daly City, CA 94014

04/26/05



I:\9-0329 PIEDMONT\FIGURES\VICINITY-MAP.AI

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE 1

Former Chevron Station 9-5542

7007 San Ramon Road

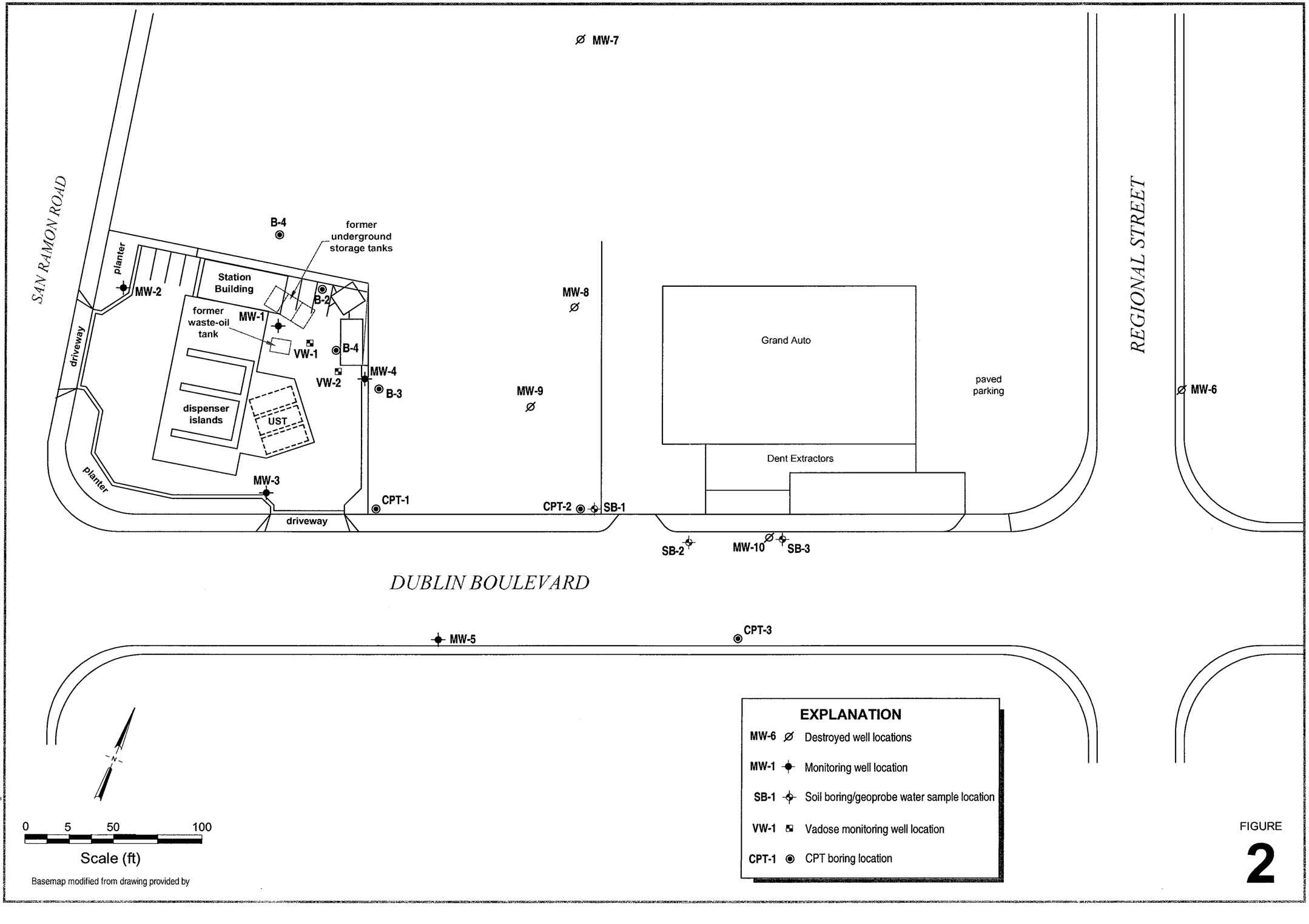
Dublin, California

CAMBRIA

Vicinity Map

04/26/05

Site Plan



Basemap modified from drawing provided by

FIGURE

2

CAMBRIA

Cheveron Service Station 9-5542
7007 San Ramon Road
Dublin, California

R:\9-5542 DUBLIN\FIGURES\9-5542_SITE-PLAN.DWG

Table 1
Discrete-Groundwater Sample Results
Chevron Station #9-5542, 7007 San Ramon Rd., Dublin, California

Sample ID	Sample Depth	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
			(Concentrations in µg/L)											
CPT-1	46	1/20/2006	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	55	1/20/2006	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	65	1/20/2006	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
CPT-2	52	1/20/2006	**1,000**	**1**	<0.5	**22**	**120**	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	63	1/20/2006	**170**	<0.5	<0.5	**1**	**2**	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
CPT-3	42	1/17/2006	<50	<3	<3	<3	<3	<3	<3	<3	<3	<25	**3**	<3
	55	1/17/2006	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5
	65	1/17/2006	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5

Abbreviations/Notes

TPHg = total petroeum hydrocarbons as gasoline by N. CA LUFT Gasoline Method
BTEX = benzene, toluene, ethylbenzene and xylenes by EPA Method 8260B
MTBE = methyl tertiary butyl ether by EPA Method 8260B
DIPE = di-isopropyl ether by EPA Method 8260B
ETBE = ethyl tertiary butyl ether by EPA Method 8260B
TAME = tertiary amyl methyl ether by EPA Method 8260B
TBA = tertiary butyl ether by EPA Method 8260B
1,2-DCA = 1,2-dichloroethane by EPA Method 8260B
EDB = 1,2-dibromoethane by EPA Method 8260B
<x.xx = not detected above laboratory detection limit
fbg = feet below grade
µg/L = micrograms per liter

ATTACHMENT A

Regulatory Correspondence

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

October 24, 2005

Mr. Dana Thurman
Chevron
P.O. Box 6012
San Ramon, CA 94583-2324

T. W. Johnson
7007 San Ramon Rd.
Dublin, CA 94568-3239

Dear Mr. Thurman and T. W. Johnson:

Subject: Fuel Leak Case RO0000206, Chevron Station 9-5542, 7007 San Ramon Rd., Dublin, CA 94568

Alameda County Environmental Health (ACEH) staff has reviewed the file for the subject site including the May 4, 2005 *Site Summary, Monitoring Well Destruction Request and Workplan* from Cambria. The work plan proposes the destruction of a number of off-site wells to accommodate the development of the adjacent property by See's Candies stores. It also proposes the drilling of three (3) CPT borings down-gradient of the site to investigate the lateral and vertical extent contaminants from the site including MTBE. Your work plan, however, we request that you address the following technical comments when performing the proposed work and submit the technical reports requested below..

TECHNICAL COMMENTS

1. The proposal to properly decommission wells MW-6, MW-7, MW-9, MW-8 and MW-10 is approved. As previously requested by our office, please confirm that the benzene concentration in MW-9 is below the appropriate ESL (commercial/industrial land use, indoor air impact) prior to decommissioning. —
2. The proposal to locate, redevelop and sample MW-5 is approved. If MW-5 cannot be located and sampled, please propose a replacement well. We believe that MW-5 is necessary to evaluate release(s), which may have occurred from the new UST complex.
3. We approve the drilling of the three proposed CPT borings (CPT-1 through CPT-3) as a means to delineate the lateral and vertical extent of releases from the former and existing UST pits. Groundwater samples should be analyzed for TPHg, BTEX, MTBE and other oxygenates.

TECHNICAL REPORT REQUEST

- 60 days after completion of investigation- Groundwater investigation report, conclusions and recommendations and well destruction report.
- November 23, 2005- Semi-annual monitoring report including wells MW-1, MW-4, MW-3 and MW-5 and confirmation of MW-9 versus ESL evaluation.

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

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

If you have any questions, please call me at (510) 567-6765.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: files, D. Drogos
Mr. David Herzog, Cambria, 4111 Citrus Ave., Suite 9, Rocklin, CA 95677
Mr. Tim Kircher, See's Candies, 400 Allan St., Daly City, CA 94014
10_24_05 7007 San Ramon Rd

ATTACHMENT B

CPT Logs and Permits

Cone Penetration Test Data & Interpretation

Soil behavior type and stratigraphic interpretation is based on relationships between cone bearing (q_c), sleeve friction (f_s), and pore water pressure (u_2). The friction ratio (R_f) is a calculated parameter defined by $100f_s/q_c$ and is used to infer soil behavior type. Generally:

Cohesive soils (clays)

- High friction ratio (R_f) due to small cone bearing (q_c)
- Generate large excess pore water pressures (u_2)

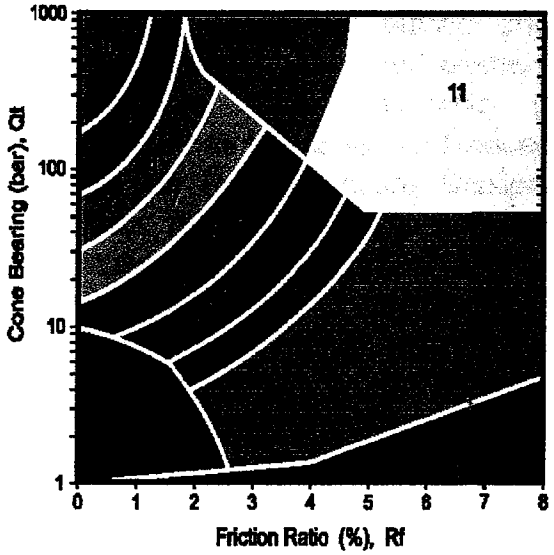
Cohesionless soils (sands)

- Low friction ratio (R_f) due to large cone bearing (q_c)
- Generate very little excess pore water pressures (u_2)

A complete set of baseline readings are taken prior to and at the completion of each sounding to determine temperature shifts and any zero load offsets. Corrections for temperature shifts and zero load offsets can be extremely important, especially when the recorded loads are relatively small. In sandy soils, however, these corrections are generally negligible.

The cone penetration test data collected from your site is presented in graphical form in Appendix CPT. The data includes CPT logs of measured soil parameters, computer calculations of interpreted soil behavior types (SBT), and additional geotechnical parameters. A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Soil interpretation for this project was conducted using recent correlations developed by Robertson, 1990, *Figure SBT*. Note that it is not always possible to clearly identify a soil type based solely on q_c, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type.



ZONE	Qt/N	SBT
1	2	Sensitive, fine grained
2	1	Organic materials
3	1	Clay
4	1.5	Silty clay to clay
5	2	Clayey silt to silty clay
6	2.5	Sandy silt to clayey silt
7	3	Silty sand to sandy silt
8	4	Sand to silty sand
9	5	Sand
10	6	Gravely sand to sand
11	1	Very stiff fine grained*
12	2	Sand to clayey sand*

*over consolidated or cemented

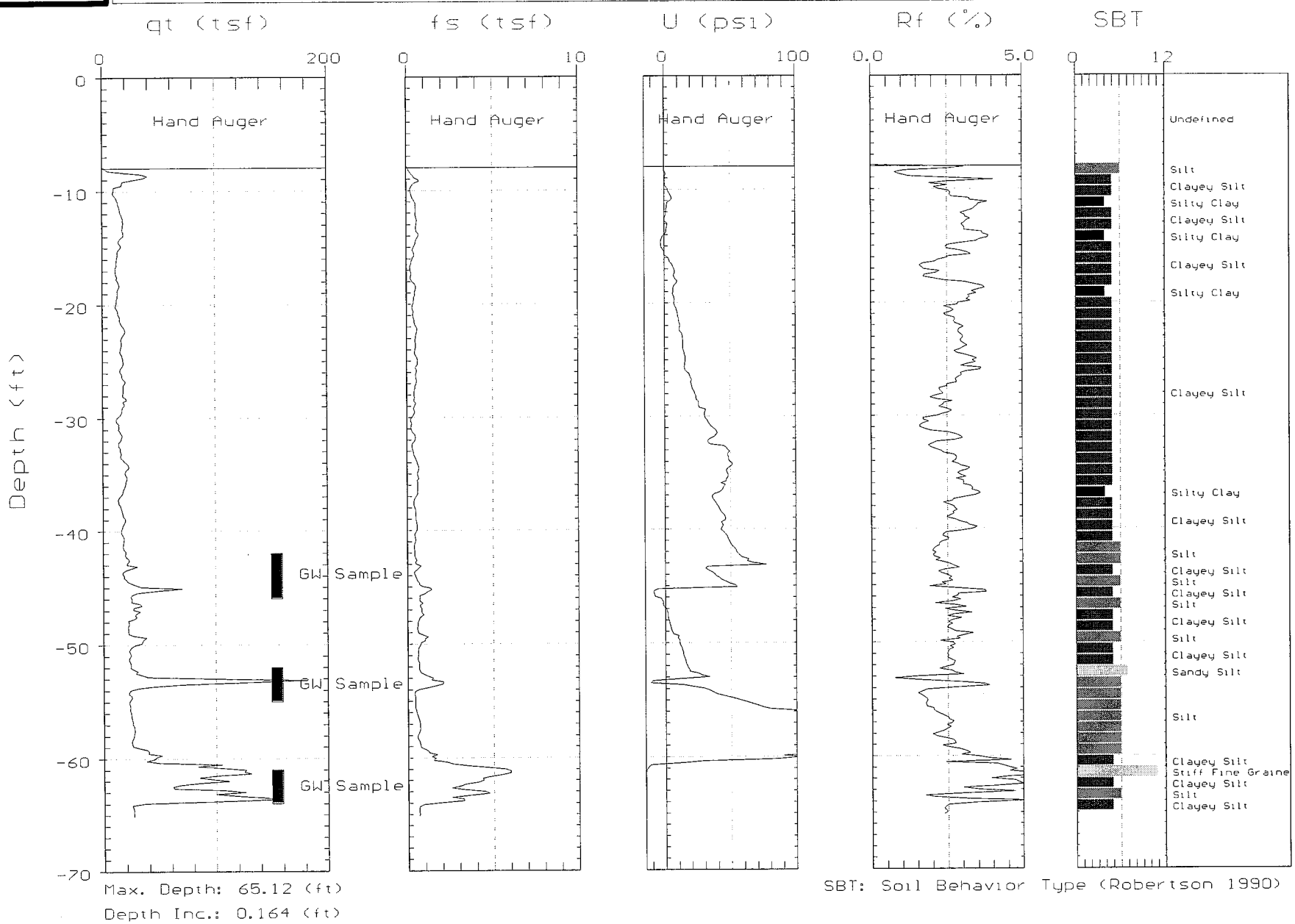
Figure SBT

GREGG

CAMBRIA

Site: CHEVRON 9-5542
Location: CPT-01

Engineer: D.HORZOG
Date: 01:20:06 05:50



Max. Depth: 65.12 (ft)
Depth Inc.: 0.164 (ft)

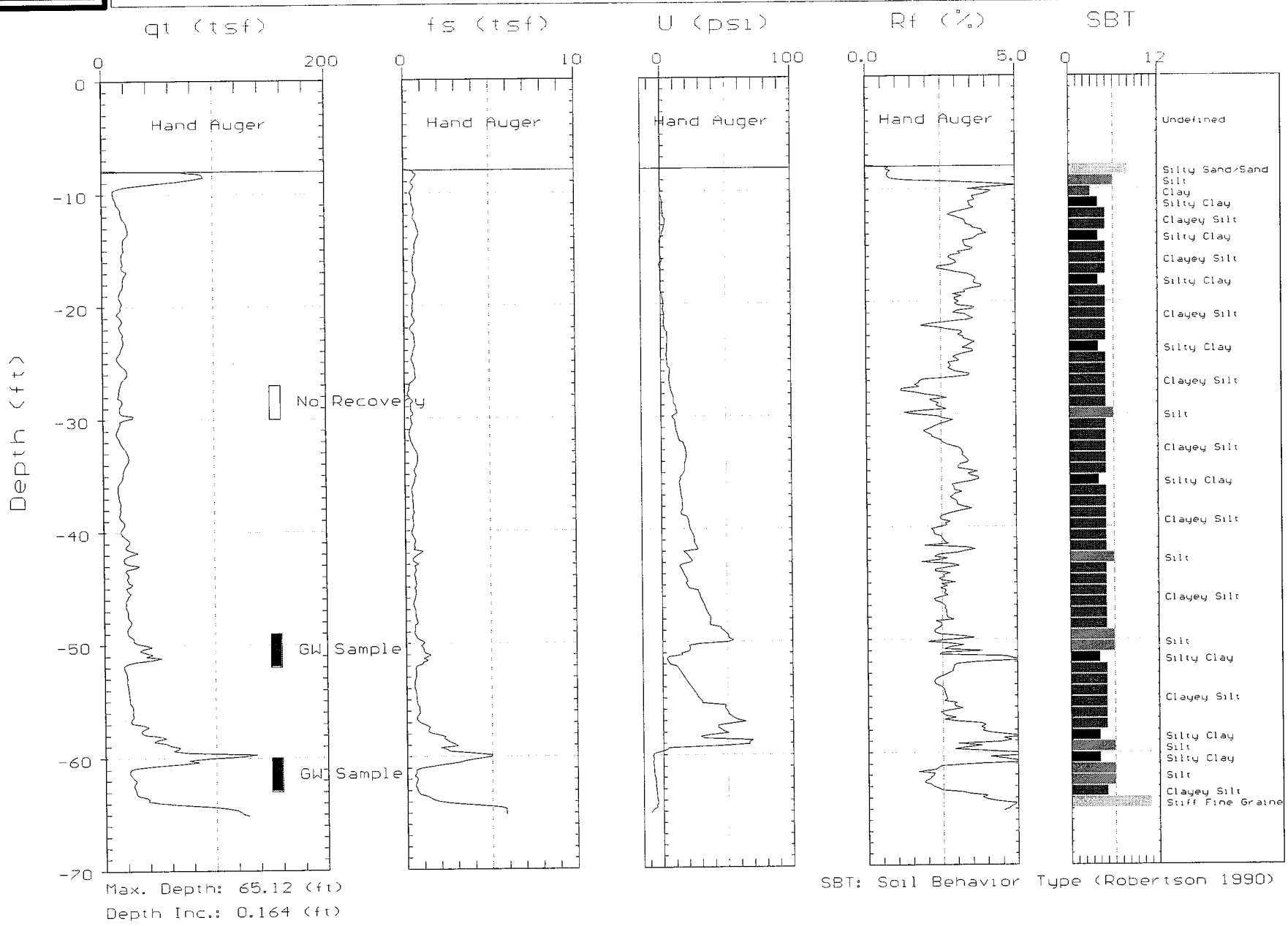
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CAMBRIA

Site: CHEVRON 9-5542
Location: CPT-02

Engineer: D.HORZOG
Date: 01:17:06 20:20



Max. Depth: 65.12 (ft)
Depth Inc.: 0.164 (ft)

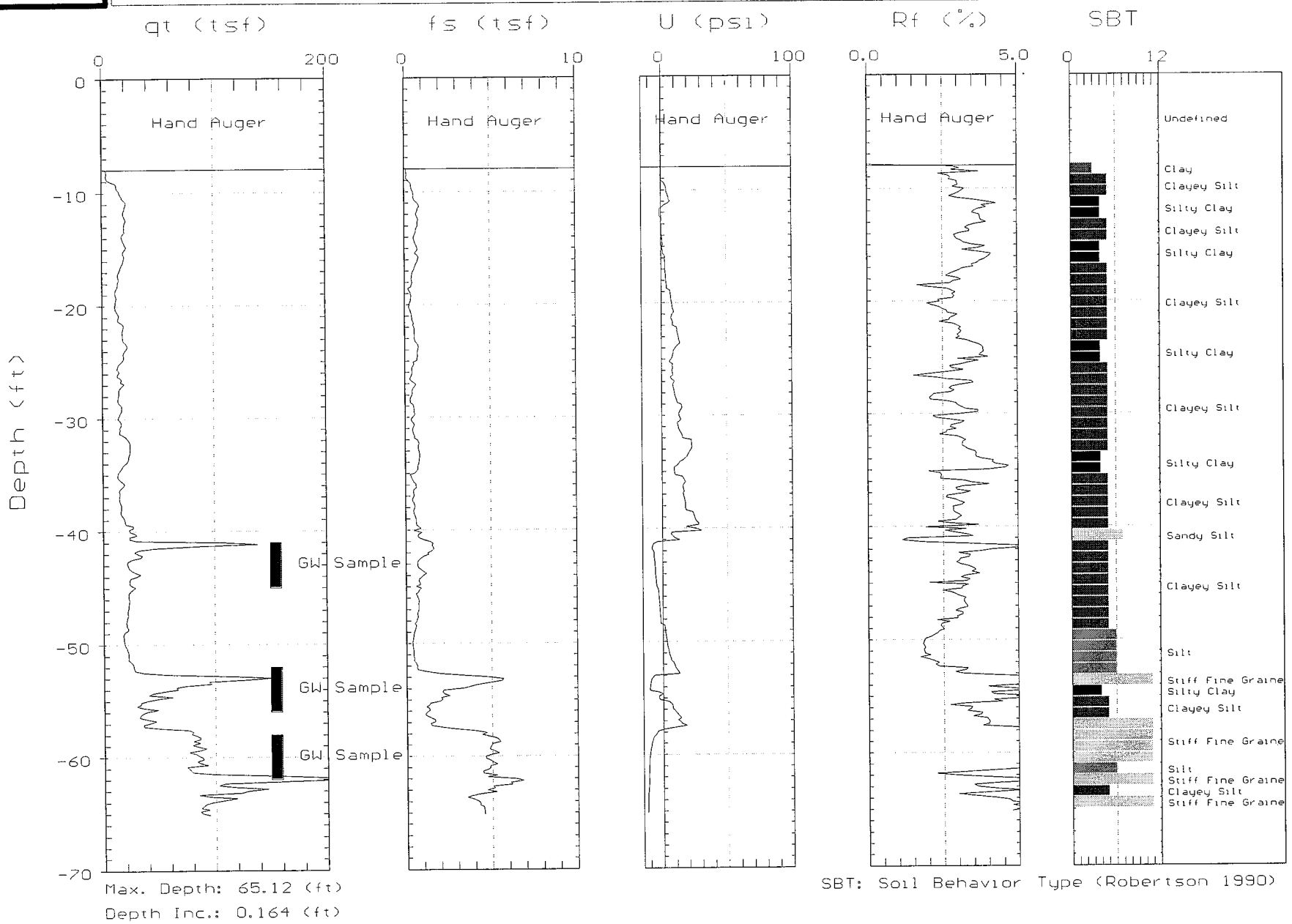
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CAMBRIA

Site: CHEVRON 9-5542
Location: CPT-03

Engineer: D.HORZOG
Date: 01:17:06 14:16



Max. Depth: 65.12 (ft)
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Chevron 9-5542
7007 San Ramon Rd.
Dublin, CA

California Coordinates Source ____ ft. Accuracy ____ ft.
CCN ____ ft. CCE ____ ft.
APN ____

CLIENT
Name Chevron Environmental Management
Address P.O. Box 6012 Phone (925) 842-9559
City San Ramon, CA Zip 94583

APPLICANT
Name Leon Gearhart
Cambria Environmental Fax (916) 677-3687
Address 2000 Opportunity Dr Phone (916) 677-3407
City Roseville, CA Ste. 110 Zip 95678

TYPE OF PROJECT
Well Construction
- Cathodic Protection
- Water Supply
- Monitoring

Geotechnical Investigation
- General
- Contamination
- Well Destruction (circled) MW-6, -7, -8, -9, -10

PROPOSED WELL USE
- New Domestic
- Municipal
- Industrial
- Dewatering
- Irrigation
- Remediation
- Groundwater Monitoring
- Other

DRILLING METHOD:
Mud Rotary · Air Rotary · Hollow Stem Auger (circled)
Cable Tool · Direct Push · Other

DRILLING COMPANY Gregg Drilling
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 35 ft.
Surface Seal Depth ____ ft. Number 5

SOIL BORINGS
Number of Borings 3 Maximum
Hole Diameter 2 in. Depth 36 ft.

ESTIMATED STARTING DATE 1-17-06
ESTIMATED COMPLETION DATE 1-19-06

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

APPLICANT'S SIGNATURE [signature] Date 1/13/06
Leon Gearhart

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 26009
WELL NUMBER MW-6 to MW-10
APN 941-0305-007-02 & 941-0305-034-02

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

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.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

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.

(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

(F.) WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after the completion of permitted work the well installation report <u>including all soil and water laboratory analysis results</u>.

Approved [signature] Date 1/17/06
Wyman Hong

Revised: April 27, 2005

January 17, 2006

Zone 7
Water Resources Engineering
Groundwater Protection Ordinance

Chevron
7007 San Ramon Road
Dublin
Wells MW-6 (3S/1W-2H21), MW-7 (3S/1W-2H20), MW-8 (3S/1W-2H19), MW-9 (3S/1W-2H27) and MW-10 (3S/1W-2H35)
Permit 26009

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.

2. Sound the well as deeply as practicable and record for your report.

3. Pressure grout the casing to two feet below the finished grade or original ground, whichever is the lower elevation.

4. Remove the casing, seal, and gravel pack to two feet below the finished grade or original ground, whichever is the lower elevation (optional).

5. After the seal has set, backfill the remaining hole with compacted material(optional).

CITY OF DUBLIN
PUBLIC WORKS DEPARTMENT
100 Civic Plaza
Dublin, California 94568
(925) 833-6630

PERMIT NO. 05-68

ENCROACHMENT PERMIT

PERMIT TO DO WORK IN ACCORDANCE WITH CITY OF DUBLIN MUNICIPAL CODE CHAPTER 7.04 AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

Applicant/Permittee:	Permit Fee:	$ 10.00
Name: CAMBRIA ENVIRONMENTAL	Plancheck Fee:	$
	Resurfacing Surcharge:	$
Address: 4111 CITRUS AVE., SUITE 12	Inspection Fees:	$ 315.00
		$
ROCKLIN, CA 95677		$
	Total Fees:	$ 325.00
Telephone (916) 630-1855 x 115	Bond: Surety: #1500 $ Cash:	103312819-0353 $
LEON GEARHART	**Total Paid:**	$ 325.00
	Receipt No.	

PLEASE READ THIS PERMIT CAREFULLY. KEEP IT AT THE WORK SITE. TO ARRANGE FOR INSPECTION, PHONE 833-6630 AT LEAST 48 HOURS *BEFORE YOU START WORK.*

JOB LOCATION: 7007 SAN RAMON RD., DUBLIN CHEVRON # 9-5542

DESCRIPTION OF WORK: (Attach 2 copies of plans. Attach additional pages if needed.)

DESTROY TWO (2) EXISTING GROUNDWATER MONITORING WELLS (MW-6 + MW-10)
ADVANCE ONE (1) CPT BORING (CPT-3)

Length of Excavation 2 **l.f. Width** 2 **l.f. Depth** 35 **ft.**

U. S. A. IDENTIFICATION NUMBER (if applicable) _____

ATTENTION IS DIRECTED TO THE GENERAL PROVISIONS PRINTED ON THE REVERSE SIDE OF THIS PERMIT AND TO THE FOLLOWING SPECIAL REQUIREMENTS:

1. Permittee shall provide and keep current a certificate of Public Liability and Workers Compensation Insurance which names the City of Dublin and its employees and agents as additional insureds.
2. Worksites left in an unsafe condition will be secured by the City Maintenance Department and the cost charged to the permittee.

INSPECTION REQUIRED FOR TRAFFIC CONTROL AND FINAL. LANE CLOSURE BETWEEN 9:00-3:30 ONLY.

Prosecution of Work: All work authorized by the permit shall be performed in a workmanlike, diligent, and expeditious manner, and must be complete to the satisfaction of the City Engineer.

Liability and Damages: The permittee shall be responsible for all liability imposed by law for personal injury or property damage which may arise out of the work permitted and done by permittee under this permit, or which may arise out of failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Dublin, its officers and employees, and save them harmless in every way from all action by law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.

Signature of Permittee:

By: _____

Date: 11/29/05

City Engineer

By: _____

Date of Issue: 11-29-05

ATTACHMENT C

Laboratory Analytical Reports

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

916-630-1855

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 975393. Samples arrived at the laboratory on Tuesday, January 24, 2006. The PO# for this group is 99011184 and the release number is MTI.

Client Description			Lancaster Labs Number
CPT-2-W-52-060120	Grab	Water	4694542
CPT-2-W-63-060120	Grab	Water	4694543
CPT-1-W-46-060120	Grab	Water	4694544
CPT-1-W-55-060120	Grab	Water	4694545
CPT-1-W-65-060120	Grab	Water	4694546

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

Analysis Report

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Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4694542

CPT-2-W-52-060120 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-2
Collected:01/20/2006 09:50 by LG

Account Number: 10880

Submitted: 01/24/2006 09:00
Reported: 02/02/2006 at 15:45
Discard: 03/05/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

RAM52

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	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.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	1.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	22.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	120.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/26/2006 06:49	Kathie J Bowman	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2006 11:05	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2006 06:49	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/01/2006 11:05	Anita M Dale	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4694543

CPT-2-W-63-060120 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-2
Collected:01/20/2006 10:20 by LG

Account Number: 10880

Submitted: 01/24/2006 09:00
Reported: 02/02/2006 at 15:45
Discard: 03/05/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

RAM63

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	170.	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. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 7.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	1.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	2.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/26/2006 07:18	Kathie J Bowman	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2006 11:32	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2006 07:18	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/01/2006 11:32	Anita M Dale	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4694544

CPT-1-W-46-060120 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-1
Collected:01/20/2006 14:15 by LG

Account Number: 10880

Submitted: 01/24/2006 09:00
Reported: 02/02/2006 at 15:45
Discard: 03/05/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

RAM46

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 10.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1
	The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 11.					

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/26/2006 07:47	Kathie J Bowman	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2006 11:59	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2006 07:47	Kathie J Bowman	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4694544

CPT-1-W-46-060120 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-1
Collected:01/20/2006 14:15 by LG

Account Number: 10880

Submitted: 01/24/2006 09:00
Reported: 02/02/2006 at 15:45
Discard: 03/05/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

RAM46

01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/01/2006 11:59	Anita M Dale	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4694545

CPT-1-W-55-060120 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-1
Collected:01/20/2006 14:35 by LG

Account Number: 10880

Submitted: 01/24/2006 09:00
Reported: 02/02/2006 at 15:45
Discard: 03/05/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

RAM55

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/26/2006 08:16	Kathie J Bowman	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2006 12:26	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2006 08:16	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/01/2006 12:26	Anita M Dale	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4694546

CPT-1-W-65-060120 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-1
Collected:01/20/2006 15:00 by LG

Account Number: 10880

Submitted: 01/24/2006 09:00
Reported: 02/02/2006 at 15:45
Discard: 03/05/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

RAM65

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/26/2006 08:46	Kathie J Bowman	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2006 12:53	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/26/2006 08:46	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/01/2006 12:53	Anita M Dale	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 02/02/06 at 03:45 PM

Group Number: 975393

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06025A08A	Sample number(s): 4694542-4694546							
TPH-GRO - Waters	N.D.	50.	ug/l	114	123	70-130	7	30
Batch number: P060322AA	Sample number(s): 4694542-4694546							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	104		77-127		
di-Isopropyl ether	N.D.	0.5	ug/l	87		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	90		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	94		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	104		60-133		
Benzene	N.D.	0.5	ug/l	92		85-117		
1,2-Dichloroethane	N.D.	0.5	ug/l	97		77-132		
Toluene	N.D.	0.5	ug/l	91		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	93		81-114		
Ethylbenzene	N.D.	0.5	ug/l	94		82-119		
Xylene (Total)	N.D.	0.5	ug/l	94		83-113		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06025A08A	Sample number(s): 4694542-4694546 UNSPK: P694386								
TPH-GRO - Waters	122		63-154						
Batch number: P060322AA	Sample number(s): 4694542-4694546 UNSPK: P694403								
Methyl Tertiary Butyl Ether	107	107	69-134	0	30				
di-Isopropyl ether	93	92	75-130	1	30				
Ethyl t-butyl ether	94	94	78-119	1	30				
t-Amyl methyl ether	95	96	72-125	1	30				
t-Butyl alcohol	105	106	56-134	1	30				
Benzene	97	90	83-128	3	30				
1,2-Dichloroethane	102	102	70-143	1	30				
Toluene	100	101	83-127	1	30				
1,2-Dibromoethane	96	96	78-120	0	30				
Ethylbenzene	104	104	82-129	0	30				
Xylene (Total)	103	102	82-130	0	30				

Surrogate Quality Control

*- 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.

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria Group Number: 975393
Reported: 02/02/06 at 03:45 PM

Surrogate Quality Control

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

Analysis Name: TPH-GRO - Waters
Batch number: 06025A08A

	Trifluorotoluene-F
4694542	78
4694543	78
4694544	79
4694545	78
4694546	77
Blank	82
LCS	84
LCSD	86
MS	79
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: P060322AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4694542	99	95	97	89
4694543	100	95	97	89
4694544	87	96	99	89
4694545	97	95	98	88
4694546	98	96	97	88
Blank	97	92	98	88
LCS	99	95	98	90
MS	99	99	98	91
MSD	98	98	97	91
Limits:	80-116	77-113	80-113	78-113

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 4109454 2-46 SCR#: 240542

MTF #615-1969

Group# 975393

Facility #: 9-5542
Site Address: 7007 SAN RAMON BLVD, DUBLIN
Chevron PM: D. THURMAN Lead Consultant: CAMBRIA
Consultant/Office: ROSEVILLE
Consultant Prj. Mgr.: DAVID HERZOG
Consultant Phone #: (916) 677-3407 Fax #: (916) 677-3687
Sampler: L. GEARHART
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	5 Oxygenates	Lead 7420 ☐ 7421 ☐	1,2-DCA + EDB BY 8260
CPT-2@52	W		52	06 01 20	0950	4	X		3	X	X			X		X
CPT-2@63			63		1020		X		3	X	X			X		X
CPT-1@46			46		1415		X		3	X	X			X		X
CPT-1@55			55		1435		X		3	X	X			X		X
CPT-1@65			65		1500		X		3	X	X			X		X

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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

Comments / Remarks

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

	Date	Time		Date	Time
Relinquished by:	1/23/06	1500	Received by: FED-EX	1/23/06	1500
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: Kathy Birkheen	Date 1-24-06	Time 0900
Temperature Upon Receipt 5.5° C°			Custody Seals Intact? (Yes) No		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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

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

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

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

916-630-1855

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 975104. Samples arrived at the laboratory on Friday, January 20, 2006. The PO# for this group is 99011184 and the release number is MTI.

Client Description			Lancaster Labs Number
CPT-3-W-42-060117	Grab	Water	4692940
CPT-3-W-55-060117	Grab	Water	4692941
CPT-3-W-65-060117	Grab	Water	4692942

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

Analysis Report

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Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Jenifer E. Hess
Manager

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4692940

CPT-3-W-42-060117 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-3
Collected:01/17/2006 13:00 by LG

Account Number: 10880

Submitted: 01/20/2006 09:00
Reported: 01/31/2006 at 10:52
Discard: 03/03/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

DUB42

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 10.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	3.	ug/l	5
02011	di-Isopropyl ether	108-20-3	N.D.	3.	ug/l	5
02013	Ethyl t-butyl ether	637-92-3	N.D.	3.	ug/l	5
02014	t-Amyl methyl ether	994-05-8	N.D.	3.	ug/l	5
02015	t-Butyl alcohol	75-65-0	N.D.	25.	ug/l	5
05401	Benzene	71-43-2	N.D.	3.	ug/l	5
05402	1,2-Dichloroethane	107-06-2	3.	3.	ug/l	5
05407	Toluene	108-88-3	N.D.	3.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	ug/l	5
05415	Ethylbenzene	100-41-4	N.D.	3.	ug/l	5
06310	Xylene (Total)	1330-20-7	N.D.	3.	ug/l	5
	The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 12.					

The usual reporting limits could not be attained due to the high pH of the sample.

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4692940

CPT-3-W-42-060117 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-3
Collected:01/17/2006 13:00 by LG

Account Number: 10880

Submitted: 01/20/2006 09:00
Reported: 01/31/2006 at 10:52
Discard: 03/03/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

DUB42

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/25/2006 10:22	Kathie J Bowman	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/30/2006 19:21	Ginelle L Feister	5
01146	GC VOA Water Prep	SW-846 5030B	1	01/25/2006 10:22	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/30/2006 19:21	Ginelle L Feister	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4692941

CPT-3-W-55-060117 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-3
Collected:01/17/2006 14:00 by LG

Account Number: 10880

Submitted: 01/20/2006 09:00
Reported: 01/31/2006 at 10:52
Discard: 03/03/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

DUB55

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/24/2006 15:58	Steven A Skiles	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/30/2006 12:44	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/24/2006 15:58	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/30/2006 12:44	Ginelle L Feister	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4692942

CPT-3-W-65-060117 Grab Water
Facility# 95542 MTI# 61E-1969 CETR
7007 San Ramon-Dublin T0600100354 CPT-3
Collected:01/17/2006 14:30 by LG

Account Number: 10880

Submitted: 01/20/2006 09:00
Reported: 01/31/2006 at 10:52
Discard: 03/03/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

DUB65

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	01/24/2006 16:28	Steven A Skiles	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/30/2006 13:07	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	01/24/2006 16:28	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/30/2006 13:07	Ginelle L Feister	n.a.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 01/31/06 at 10:52 AM

Group Number: 975104

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06023A07A	Sample number(s): 4692940							
TPH-GRO - Waters	N.D.	50.	ug/l	102	113	70-130	10	30
Batch number: 06024A08A	Sample number(s): 4692941-4692942							
TPH-GRO - Waters	N.D.	50.	ug/l	110	112	70-130	2	30
Batch number: Z060301AA	Sample number(s): 4692940							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	110		77-127		
di-Isopropyl ether	N.D.	0.5	ug/l	101		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	101		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	102		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	97		60-133		
Benzene	N.D.	0.5	ug/l	103		85-117		
1,2-Dichloroethane	N.D.	0.5	ug/l	104		77-132		
Toluene	N.D.	0.5	ug/l	108		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	103		81-114		
Ethylbenzene	N.D.	0.5	ug/l	107		82-119		
Xylene (Total)	N.D.	0.5	ug/l	109		83-113		
Batch number: Z060302AA	Sample number(s): 4692941-4692942							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	109		77-127		
di-Isopropyl ether	N.D.	0.5	ug/l	101		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	101		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	102		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	94		60-133		
Benzene	N.D.	0.5	ug/l	104		85-117		
1,2-Dichloroethane	N.D.	0.5	ug/l	104		77-132		
Toluene	N.D.	0.5	ug/l	109		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	103		81-114		
Ethylbenzene	N.D.	0.5	ug/l	107		82-119		
Xylene (Total)	N.D.	0.5	ug/l	109		83-113		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06023A07A	Sample number(s): 4692940 UNSPK: P693489								
TPH-GRO - Waters	100	103	63-154	2	30				
Batch number: 06024A08A	Sample number(s): 4692941-4692942 UNSPK: P693488								
TPH-GRO - Waters	124	118	63-154	5	30				

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

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria Group Number: 975104
Reported: 01/31/06 at 10:52 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z060301AA	Sample number(s): 4692940 UNSPK: P692648								
Methyl Tertiary Butyl Ether	100	105	69-134	2	30				
di-Isopropyl ether	98	100	75-130	2	30				
Ethyl t-butyl ether	96	100	78-119	4	30				
t-Amyl methyl ether	99	103	72-125	3	30				
t-Butyl alcohol	100	100	56-134	0	30				
Benzene	103	106	83-128	2	30				
1,2-Dichloroethane	101	104	70-143	3	30				
Toluene	108	112	83-127	4	30				
1,2-Dibromoethane	98	100	78-120	2	30				
Ethylbenzene	108	112	82-129	3	30				
Xylene (Total)	108	111	82-130	3	30				
Batch number: Z060302AA	Sample number(s): 4692941-4692942 UNSPK: P694438								
Methyl Tertiary Butyl Ether	105	103	69-134	1	30				
di-Isopropyl ether	97	96	75-130	1	30				
Ethyl t-butyl ether	96	96	78-119	0	30				
t-Amyl methyl ether	96	95	72-125	1	30				
t-Butyl alcohol	80	96	56-134	17	30				
Benzene	103	102	83-128	1	30				
1,2-Dichloroethane	99	101	70-143	2	30				
Toluene	109	109	83-127	0	30				
1,2-Dibromoethane	98	99	78-120	1	30				
Ethylbenzene	108	108	82-129	0	30				
Xylene (Total)	109	109	82-130	0	30				

Surrogate Quality Control

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

Analysis Name: TPH-GRO - Waters
Batch number: 06023A07A

	Trifluorotoluene-F
4692940	85
Blank	87
LCS	113
LCSD	115
MS	110
MSD	111
Limits:	63-135

Analysis Name: TPH-GRO - Waters
Batch number: 06024A08A

	Trifluorotoluene-F
4692941	83
4692942	83

*- 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.

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria Group Number: 975104
Reported: 01/31/06 at 10:52 AM

Surrogate Quality Control

Blank	78
LCS	86
LCSD	85
MS	84
MSD	87
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: Z060301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4692940	80	98	104	97
Blank	102	96	104	97
LCS	102	99	105	104
MS	100	97	105	105
MSD	100	97	106	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: Z060302AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4692941	107	96	108	100
4692942	108	96	108	100
Blank	106	96	109	100
LCS	104	97	109	106
MS	106	96	109	107
MSD	106	96	109	106
Limits:	80-116	77-113	80-113	78-113

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 4692940-42 SCR#: 240592

MTI 61E-1969

Group# 975104

Facility #: 9-5542
Site Address: 7007 San Ramon Blvd, Dublin
Chevron PM: D. Thurman Lead Consultant: Cambria
Consultant/Office: Roseville
Consultant Prj. Mgr.: D. Herzog
Consultant Phone #: 916 677-3407 Fax #:
Sampler: L. Gearhart
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	5 Oxygenates 8260	Lead 7420 ☐ 7421 ☐	1,2-DCA, EDB 8260
CPT3@42	H_2O		42	06 01 17	1300	Y	X		2	X	X			X		X
CPT3@55	"		55	"	1400	Y	X		3	X	X			X		X
CPT3@65	"		65	"	1430	Y	X		3	X	X			X		X

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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

Comments / Remarks
TPHg, BTEX, MTBE, TAME, TBA, DIPE, ETBE, 1,2-DCA, EDB.

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

	Date	Time		Date	Time
Relinquished by:	1/19/06	1600	Received by: FED-EX	1/19/06	1600
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date 1/20/06	Time 0900
Temperature Upon Receipt 5.6° C°			Custody Seals Intact? Yes No		

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

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
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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

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

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

ATTACHMENT D

DWR Well Completion Reports

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ATTACHMENT E

Standard Field Procedures

CAMBRIA

STANDARD FIELD PROCEDURES FOR MONITORING WELL DESTRUCTION

This document presents standard field methods for destroying groundwater monitoring wells. The objective of well destruction is to destroy wells in a manner that is protective of potential water resources. The two procedures most commonly used are pressure grouting and drilling out the well. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Pressure Grouting

Pressure grouting consists of injecting neat Portland cement through a tremie pipe under pressure to the bottom of the well. The cement is composed of about five gallons of water to a 94 lb. sack of Portland I/II Cement. Once the well casing is full of grout, it remains pressurized for five minutes by applying a pressure of 25 pounds per square inch (psi) with a grout pump. The well casing can also be pressurized by extending the well casing to the appropriate height and filling it with grout. In either case, the additional pressure allows the grout to be forced into the sand pack. After grouting the sand pack and casing, the well vault is removed and the area resurfaced or backfilled as required.

Well Drill Out

When well drill out is required, the well location is cleared for subsurface utilities and a hollow-stem auger drilling rig is used to drill out the well casing and filter pack materials. First, drill rods are dropped down the well and used to guide the augers as they drill out the well. Once the well is drilled out, the boring is filled with Portland cement injected through the augers or a tremie pipe under pressure to the bottom of the boring. The well vault is removed and the area resurfaced or backfilled as required.

F:\TEMPLATE\SOPs\Well Destruction SOP.doc

STANDARD FIELD PROCEDURES FOR CONE PENETROMETER TESTING AND SAMPLING

This document describes Cambria Environmental Technology's standard field methods for Cone Penetrometer Testing (CPT) and direct-push soil and groundwater sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines.

Use of CPT for logging and soil and groundwater sampling requires separate borings. Typically an initial boring is advanced to estimate soil and groundwater characteristics as described below. To collect soil samples a separate boring must be advanced using a soil sampling device. If groundwater samples are collected, another separate boring must be advanced using a groundwater sampling device. Specific field procedures are summarized below.

Cone Penetrometer Testing (CPT)

Cone Penetrometer Testing is performed by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). Cone Penetrometer Tests (CPT) are carried out by pushing an integrated electronic piezocone into the subsurface. The piezocone is pushed using a specially designed CPT rig with a force capacity of 20 to 25 tons. The piezocones are capable of recording the following parameters:

Tip Resistance (Qc)
Sleeve Friction (Fs)
Pore Water Pressure (U)
Bulk Soil Resistivity (rho) - with an added module

A compression cone is used for each CPT sounding. Piezocones with rated load capacities of 5, 10 or 20 tons are used depending on soil conditions. The 5 and 10 ton cones have a tip area of 10 sq. cm. and a friction sleeve area of 150 sq. cm. The 20 ton cones have a tip area of 15 sq. cm. and a friction sleeve area of 250 sq. cm. A pore water pressure filter is located directly behind the cone tip. Each of the filters is saturated in glycerin under vacuum pressure prior to penetration. Pore Pressure Dissipation Tests (PPDT) are recorded at 5 second intervals during pauses in penetration. The equilibrium pore water pressure from the dissipation test can be used to identify the depth to groundwater.

The measured parameters are printed simultaneously on a printer and stored on a computer disk for future analysis. All CPTs are carried out in accordance with ASTM D-3441. A complete set of baseline readings is taken prior to each sounding to determine any zero load offsets.

The inferred stratigraphic profile at each CPT location is included on the plotted CPT logs. The stratigraphic interpretations are based on relationships between cone bearing (Qc) and friction ratio (Rf). The friction ratio is a calculated parameter (Fs/Qc) used in conjunction with the cone bearing to identify the soil type. Generally, soft cohesive soils have low cone bearing pressures and high friction ratios. Cohesionless soils (sands) have high cone bearing pressures and low friction ratios. The classification of soils is based on correlations developed by Robertson et al (1986). It is not always possible to clearly identify a soil type based on Qc and Rf alone. Correlation with existing soils information and analysis of pore water pressure measurements should also be used in determining soil type.

CPT and sampling equipment are steam-cleaned or washed prior to work and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent. Groundwater samples are decanted into appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

After the CPT probes are removed, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate groundwater depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

Prior to drilling, the first 5 to 8 ft of the boring are cleared using an air or water knife and vacuum extraction. This minimizes the potential for impacting utilities. Soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon[7] tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector measures volatile hydrocarbon vapor concentrations in the bag=s headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy, and groundwater depth to select soil samples for analysis.

Grab Groundwater Sampling

Groundwater samples are collected from the open borehole using bailers, advancing disposable Tygon[7] tubing into the borehole and extracting groundwater using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.