

RECEIVED

By Alameda County Environmental Health at 12:40 pm, Mar 13, 2007

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 12, 2007

(date)

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

Re: Chevron Service Station # 9-0917

Address: 5280 Hopyard Road, Pleasanton, California

I have reviewed the attached report titled Groundwater Batch Extraction Results
and dated March 12, 2007.

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

March 12, 2007

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Groundwater Batch Extraction Results**
Chevron Service Station 9-0917
5280 Hopyard Road
Pleasanton, California
Fuel Leak Case No. RO439



Dear Mr. Wickham;

On behalf of Chevron Environmental Management Company (Chevron), Cambria Environmental Technology, Inc. has prepared this report summarizing the results of recent groundwater batch extraction tests conducted at the above referenced site (Figure 1). The work performed was proposed in Cambria's November 16, 2006 report, *Expanded Plan for Groundwater Extraction*, and was approved by Alameda County Environmental Health Services (ACEHS) in a letter dated December 8, 2006 (Attachment A).

On January 11 and 25, 2007, Cambria observed Integrated Wastestream Management Inc. (IWM) extract groundwater from well IW-1 using a vacuum extraction truck. The location of well IW-1, as well as other pertinent service station features is shown on Figure 2. On January 11, 2007, IWM extracted 200 gallons of water over a 7 hour period, and on January 25, 2007, IWM was only able to extract 100 gallons of water over a 7.5 hour period. Cambria collected grab-groundwater samples from well IW-1 at the beginning, near the middle, and at the end of each extraction event. Grab-groundwater analytical results are summarized in Table 1, and laboratory analytical reports are included in Attachment B.

In order to evaluate the effectiveness of groundwater extraction, Cambria calculated the mass of TPHg removed during the first extraction event on January 11, 2007. In order to calculate mass removed, Cambria made the assumption that the change in concentrations over time in the well was linear, as depicted on Figure 3. Although it is Cambria's opinion that hydrocarbon concentrations in well IW-1 declined much more rapidly than plotted, the calculations represent a favorable estimate of mass removed. We used the linear equations for change in concentrations over time to determine the change in concentrations listed in Table 2. From that data, assuming that groundwater extraction rate was constant, the mass of TPHg removed during the first

**Cambria
Environmental
Technology, Inc.**

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

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extraction event was 0.0051 pounds. Since TPHg concentrations were higher than other analyzed constituents, the mass of the other compounds removed is significantly less.

Discussion

A review of boring log and physical soil data presented in Attachment C indicate that a majority of soil encountered beneath the site has high clay (fines) content. Although there are a few narrow horizons of moderately permeable clayey sand present, the results of the groundwater batch extraction tests indicate that soil beneath the site has low permeability, and appears to yield little hydrocarbon mass through groundwater extraction. Groundwater extraction by itself does not appear to be a viable remedial alternative for this site.

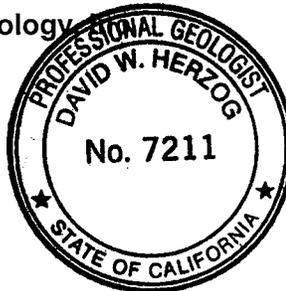
Cambria will prepare a Feasibility Study Report reviewing other remedial alternatives for this site, and will include a recommendation for a preferred remedial option. A feasibility test of the preferred remedial option may be proposed prior to submittal of the final Feasibility Study Report.

If you have any questions or require additional information, please do not hesitate to contact me at (916) 677-3407, ext. 112.

Sincerely,
Cambria Environmental Technology



David W. Herzog, P.G.
Senior Project Geologist

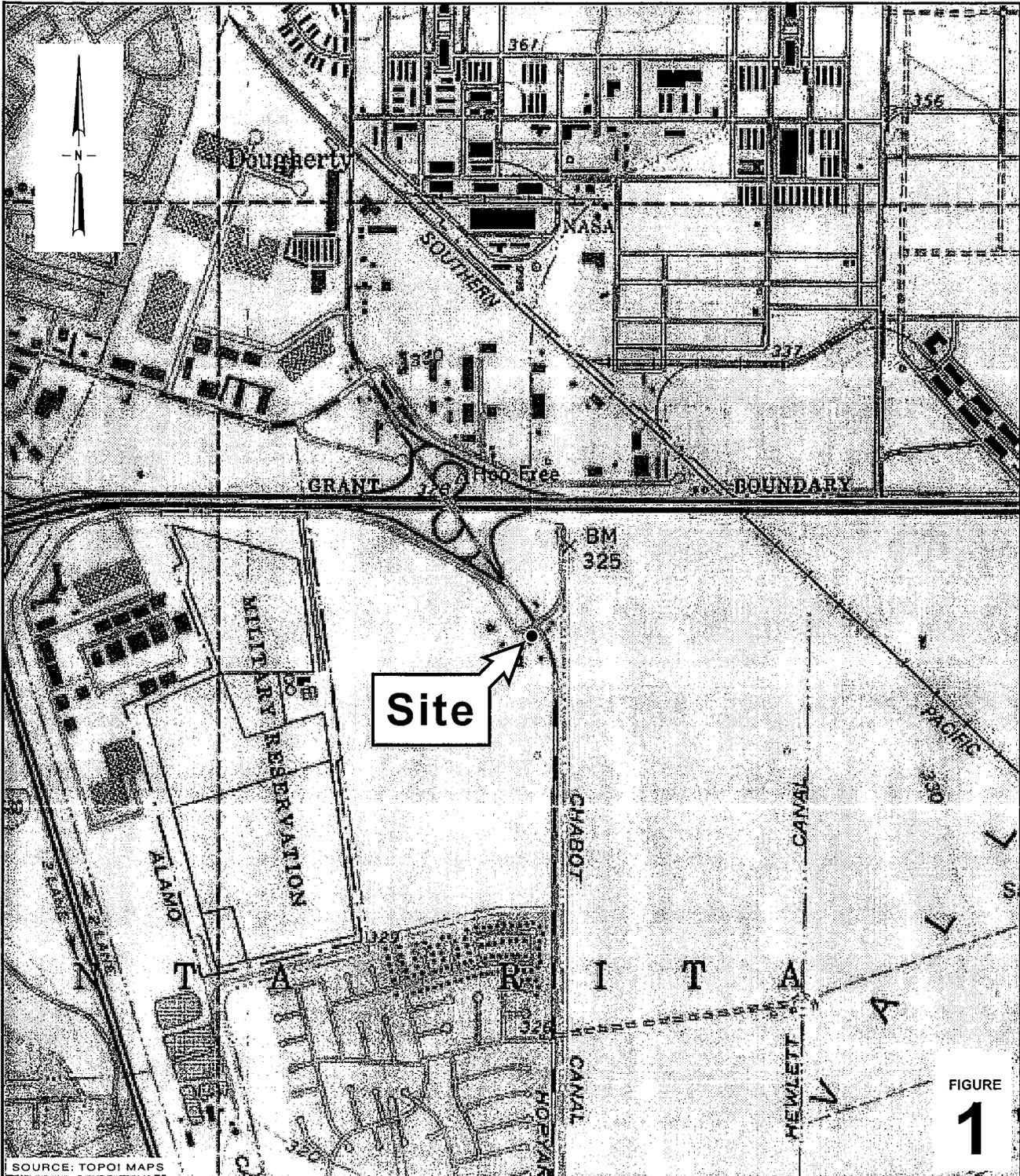


Figures: 1 – Vicinity Map
2 – Site Plan
3 – Well IW-1 Batch Extraction Test

Tables: 1 – Well IW-1 Batch Extraction Test Grab-Groundwater Analytical Results
2 – TPHg Mass Removal Calculations

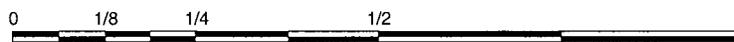
Attachments: A – ACEHS December 8, 2006 Letter
B – Laboratory Analytical Reports
C – Boring Logs and Soil Data

Cc: Mr. Dana Thurman, Chevron Environmental Management Company, P.O. Box 6012,
K2236, San Ramon, CA 94583
Lamorinda Development and Investment, 89 Davis Road, Suite 160, Orinda, CA 95463
C&H Development Company, 43 Panoramic Way, Walnut Creek, CA 94505



R:\9-0917 PLEASANTON\FIGURES\VICINITY-MAP.AI

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

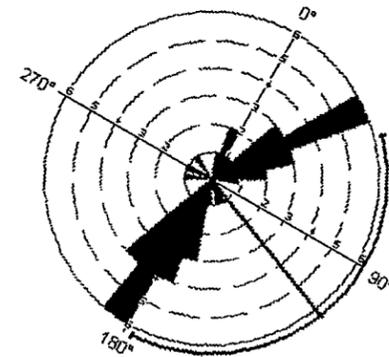
Chevron Service Station 9-0917

5280 Hopyard Road
Pleasanton, California



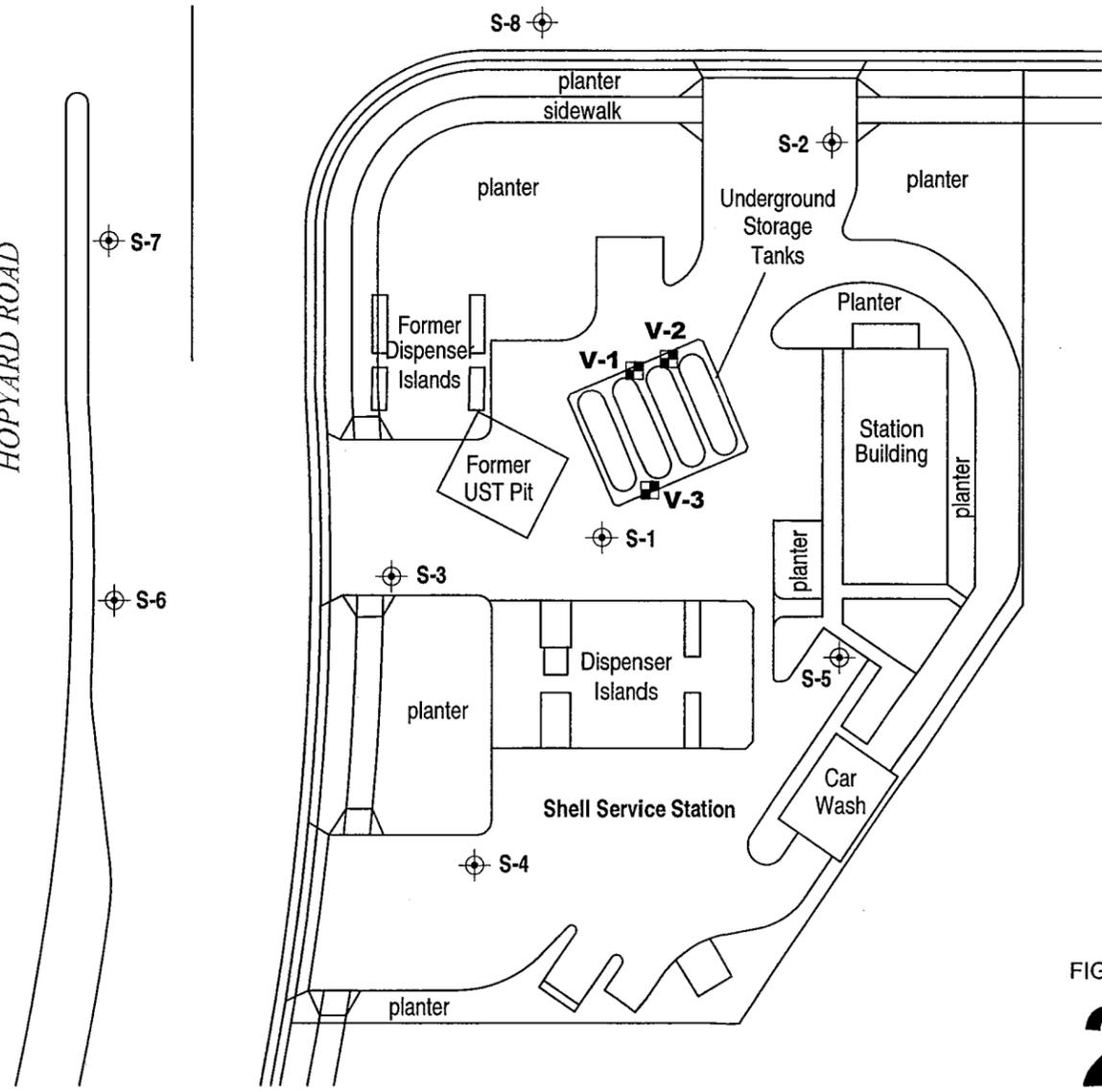
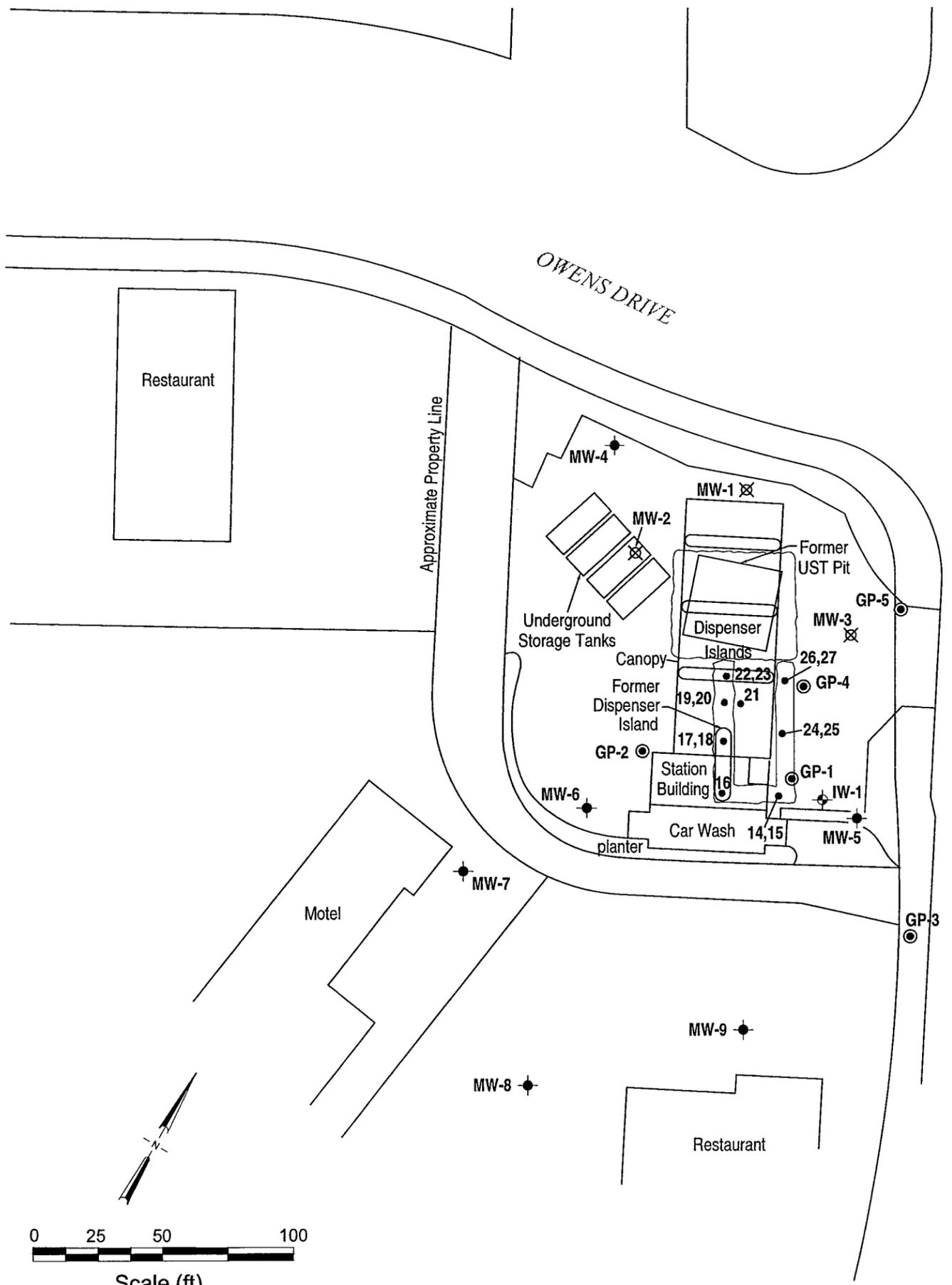
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Vicinity Map



Historical groundwater flow direction
1989 - 2005
(data gap: 1997-2002)

EXPLANATION	
GP-2	Soil boring location
MW-1	Monitoring well location
MW-3	Destroyed monitoring well location
IW-1	Remediation well location
S-8	Monitoring well location (Shell)
V-1	Vapor extraction well (Shell)
21	Soil sample location
	Former excavation limits



Scale (ft)

FIGURE

2



Chevron Service Station 9-0917

5280 Hopyard Road
Pleasanton, California

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I:\9-0917 PLEASANTON\FIGURES\SITEPLAN.DWG

Figure 3 - Well IW-1 Batch Extraction Test - January 11, 2007

TPHg Concentration Trends

Chevron Service Station 9-0917, 5280 Hopyard Road, Pleasanton, California

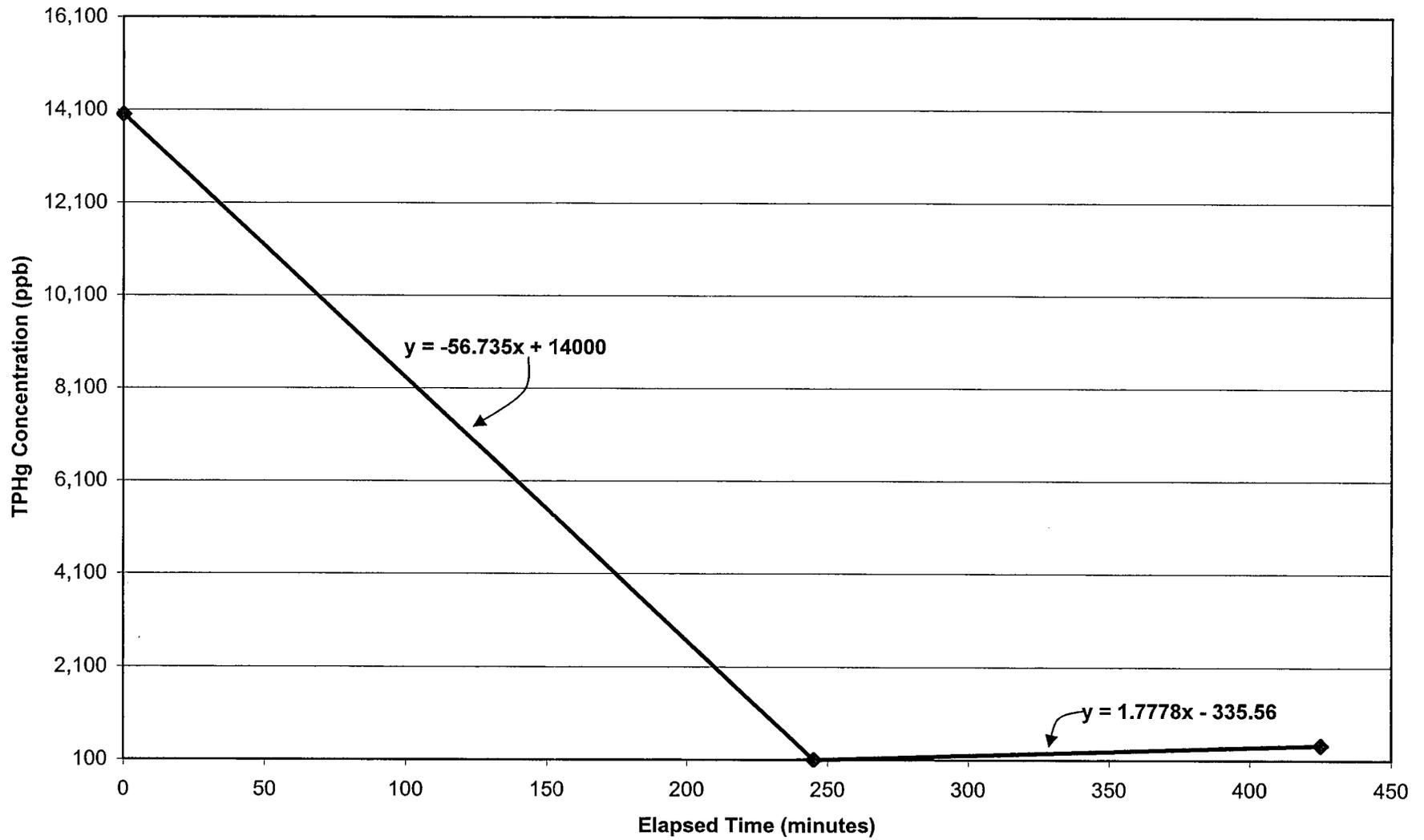


Table 1 - Well IW-1 Batch Extraction Test Grab-Groundwater Analytical Results
 Chevron Service Station 9-0917
 5280 Hopyard Road, Pleasanton, California

Date	Sample Collection Time	Elapsed Time (minutes)	TPHg	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA	
			←					μg/L	→				
1/11/2007	7:45	0	14,000	1,200	3	1,200	11	0.5	0.5	0.5	0.5	8	
	11:50	245	100	3	0.25	2	0.25	0.5	0.25	0.25	0.25	1	
	14:50	425	420	10	0.25	19	7	0.25	0.25	0.25	0.25	1	
1/25/2007	8:15	0	18,000	460	19	400	650	0.25	0.25	0.25	0.25	7	
	12:00	225	25	0.25	0.25	0.25	0.25	0.6	0.25	0.25	0.25	2	
	15:40	445	53	0.25	0.25	0.25	0.25	0.6	0.25	0.25	0.25	3	

Explanation

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015 modified

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B

MTBE = Methyl tert-butyl ether by EPA Method 8260B

DIPE = Di-isopropyl ether by EPA Method 8260B

ETBE = Ethyl tert-butyl ether by EPA Method 8260B

TAME = Tert-amyl methyl ether

TBA = Tert-butyl alcohol by EPA Method 8260B

μg/L = Micrograms per liter

Table 2 - TPHg Mass Removal Calculations
Well IW-1 Batch Extraction Test - January 11, 2007
Chevron Service Station 9-0917
5280 Hopyard Road, Pleasanton, California

Elapsed Minutes	TPHg Conc. (ppb)	Avg. Gallons per Interval	Total Gallons Extracted	Cum. Gallons TPHg Extracted
0	14000	2.326	2.326	0.00003256
5	13716	2.326	4.651	0.00003190
10	13433	2.326	6.977	0.00003124
15	13149	2.326	9.302	0.00003058
20	12865	2.326	11.628	0.00002992
25	12582	2.326	13.953	0.00002926
30	12298	2.326	16.279	0.00002860
35	12014	2.326	18.605	0.00002794
40	11731	2.326	20.930	0.00002728
45	11447	2.326	23.256	0.00002662
50	11163	2.326	25.581	0.00002596
55	10880	2.326	27.907	0.00002530
60	10596	2.326	30.233	0.00002464
65	10312	2.326	32.558	0.00002398
70	10029	2.326	34.884	0.00002332
75	9745	2.326	37.209	0.00002266
80	9461	2.326	39.535	0.00002200
85	9178	2.326	41.860	0.00002134
90	8894	2.326	44.186	0.00002068
95	8610	2.326	46.512	0.00002002
100	8327	2.326	48.837	0.00001936
105	8043	2.326	51.163	0.00001870
110	7759	2.326	53.488	0.00001804
115	7475	2.326	55.814	0.00001738
120	7192	2.326	58.140	0.00001673
125	6908	2.326	60.465	0.00001607
130	6624	2.326	62.791	0.00001541
135	6341	2.326	65.116	0.00001475
140	6057	2.326	67.442	0.00001409
145	5773	2.326	69.767	0.00001343
150	5490	2.326	72.093	0.00001277
155	5206	2.326	74.419	0.00001211
160	4922	2.326	76.744	0.00001145
165	4639	2.326	79.070	0.00001079
170	4355	2.326	81.395	0.00001013
175	4071	2.326	83.721	0.00000947
180	3788	2.326	86.047	0.00000881
185	3504	2.326	88.372	0.00000815
190	3220	2.326	90.698	0.00000749
195	2937	2.326	93.023	0.00000683
200	2653	2.326	95.349	0.00000617
205	2369	2.326	97.674	0.00000551
210	2086	2.326	100.000	0.00000485
215	1802	2.326	102.326	0.00000419
220	1518	2.326	104.651	0.00000353

Table 2 - TPHg Mass Removal Calculations
Well IW-1 Batch Extraction Test - January 11, 2007
Chevron Service Station 9-0917
5280 Hopyard Road, Pleasanton, California

Elapsed Minutes	TPHg Conc. (ppb)	Avg. Gallons per Interval	Total Gallons Extracted	Cum. Gallons TPHg Extracted
225	1235	2.326	106.977	0.00000287
230	951	2.326	109.302	0.00000221
235	667	2.326	111.628	0.00000155
240	384	2.326	113.953	0.00000089
245	100	2.326	116.279	0.00000023
250	109	2.326	118.605	0.00000025
255	118	2.326	120.930	0.00000027
260	127	2.326	123.256	0.00000029
265	136	2.326	125.581	0.00000032
270	144	2.326	127.907	0.00000034
275	153	2.326	130.233	0.00000036
280	162	2.326	132.558	0.00000038
285	171	2.326	134.884	0.00000040
290	180	2.326	137.209	0.00000042
295	189	2.326	139.535	0.00000044
300	198	2.326	141.860	0.00000046
305	207	2.326	144.186	0.00000048
310	216	2.326	146.512	0.00000050
315	224	2.326	148.837	0.00000052
320	233	2.326	151.163	0.00000054
325	242	2.326	153.488	0.00000056
330	251	2.326	155.814	0.00000058
335	260	2.326	158.140	0.00000060
340	269	2.326	160.465	0.00000063
345	278	2.326	162.791	0.00000065
350	287	2.326	165.116	0.00000067
355	296	2.326	167.442	0.00000069
360	304	2.326	169.767	0.00000071
365	313	2.326	172.093	0.00000073
370	322	2.326	174.419	0.00000075
375	331	2.326	176.744	0.00000077
380	340	2.326	179.070	0.00000079
385	349	2.326	181.395	0.00000081
390	358	2.326	183.721	0.00000083
395	367	2.326	186.047	0.00000085
400	376	2.326	188.372	0.00000087
405	384	2.326	190.698	0.00000089
410	393	2.326	193.023	0.00000091
415	402	2.326	195.349	0.00000094
420	411	2.326	197.674	0.00000096
425	420	2.326	200.000	0.00000098
Total Gallons TPHg Extracted				0.00084190
Total Pounds TPHg Extracted				0.0051

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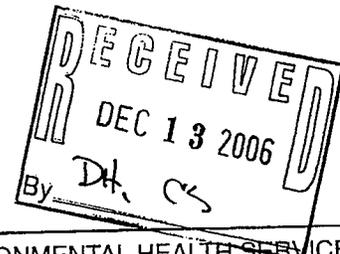


Attachment A

ACEHS December 8, 2006 Letter

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

December 8, 2006

Mr. Dana Thurman
Chevron Environmental Management Company
6001 Bollinger Canyon Road
P.O. Box 6012
San Ramon, CA 94583-2324

Lamorinda Development and Investment
89 Davis Road, Suite 160
Orinda, CA 94563

C & H Development Company
43 Panoramic Way
Walnut Creek, CA 94595

Subject: Fuel Leak Case No. RO0000439, Chevron #9-0917, 5280 Hopyard Road, Pleasanton, CA – Work Plan Approval

Dear Mr. Thurman:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the document entitled, "Expanded Plan for Groundwater Extraction," dated November 16, 2006. The "Expanded Plan for Groundwater Extraction," proposes batch groundwater extraction from well IW-1 over up to an eight-hour period with collection of groundwater samples at the beginning, middle, and end of each groundwater extraction event to evaluate the effectiveness of the batch extraction. The proposed scope of work is acceptable.

Therefore, we request that you address the following technical comments, implement the proposed work, and submit the reports requested below.

TECHNICAL COMMENTS

1. **Batch Groundwater Extraction Results and Recommendations for Future Groundwater Extraction.** We request that the results of batch groundwater extraction events and recommendations for future batch groundwater extraction or other remedial options be submitted as a separate report or as part of a Quarterly Monitoring Report by March 22, 2007.
2. **Quarterly Monitoring.** Please continue the quarterly groundwater monitoring program for the site. Results are to be reported in the quarterly monitoring reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

Dana Thurman
Lamorinda Development and Investment
C & H Development Company
December 8, 2006
Page 2

- **March 22, 2007 – Batch Groundwater Extraction Results and Recommendations Regarding Future Groundwater Extraction or Other Remedial Options**
- **45 days following the end of each quarter – Quarterly Monitoring Reports**

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

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. 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 monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website 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

Dana Thurman
Lamorinda Development and Investment
C & H Development Company
December 8, 2006
Page 3

certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

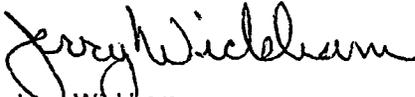
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Colleen Winey, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway
Livermore, CA 94551

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, CA 94566

Bill Hurtido, Accor North America, 4001 International Parkway, Carrollton, TX 75007

David Herzog, Cambria Environmental Technology, Inc., 2000 Opportunity Drive, Suite 110
Roseville, CA 95678

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

C A M B R I A



Attachment B

Laboratory Analytical Reports

ANALYTICAL RESULTS

Prepared for:

Chevron c/o Cambria
Suite 110
2000 Opportunity Drive
Roseville CA 95678
916-677-3407

Prepared by:

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

SAMPLE GROUP

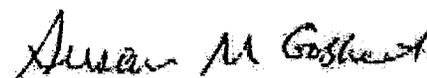
The sample group for this submittal is 1021343. Samples arrived at the laboratory on Friday, Jan 12 2007.
The project for this group is 90917.
The PO# for this sample group is 0015002176.
The release number for this sample group is MTI.

<u>Sample No.</u>	<u>Collected</u>	<u>Client Description</u>
4957705	1/11/2007 7:45	IW-1-pre-W-070111 Grab Water Facility# 90917 MTI# 61H-1959 CETK 5280 Hopyard-Pleasanton T0600100345 IW-1-pre
4957706	1/11/2007 11:50	IW-1-mid-W-070111 Grab Water Facility# 90917 MTI# 61H-1959 CETK 5280 Hopyard-Pleasanton T0600100345 IW-1-mid
4957707	1/11/2007 14:50	IW-1-post-W-070111 Grab Water Facility# 90917 MTI# 61H-1959 CETK 5280 Hopyard-Pleasanton T0600100345 IW-1-post

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

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

Respectfully Submitted,



Susan M. Goshert

ANALYTICAL RESULTS

Prepared for:

Chevron c/o Cambria
Suite 110
2000 Opportunity Drive
Roseville CA 95678
916-677-3407

Prepared by:

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

Group Leader

Chevron c/o Cambria
 Project: 5280 Hopyard-Pleasanton T0600100345 IW-1-pre
 SDG:

Report Date: 1/24/2007 16:57
 Submit Date: 1/12/2007 9:35

Analysis Name	Units	4957705		4957706		4957707	
		IW-1-pre	MDL	IW-1-mid	MDL	IW-1-pos	MDL
TPH-GRO - Waters	ug/l	14,000.	500.	100.	50.	420.	50.
Methyl Tertiary Butyl Ether	ug/l	N.D.	1.	0.6	0.5	0.5	0.5
di-Isopropyl ether	ug/l	N.D.	1.	N.D.	0.5	N.D.	0.5
Ethyl t-butyl ether	ug/l	N.D.	1.	N.D.	0.5	N.D.	0.5
t-Amyl methyl ether	ug/l	N.D.	1.	N.D.	0.5	N.D.	0.5
t-Butyl alcohol	ug/l	8.	4.	N.D.	2.	N.D.	2.
Benzene	ug/l	1,200.	10.	3.	0.5	10.	0.5
Toluene	ug/l	3.	1.	N.D.	0.5	N.D.	0.5
Ethylbenzene	ug/l	1,200.	10.	2.	0.5	19.	0.5
Xylene (Total)	ug/l	11.	1.	N.D.	0.5	7.	0.5

CAT No.	Analysis Name	Method	Trial Analysis		Analyst	Dilution
			ID	Date/Time		
4957705	IW-1-pre-W-070111	Grab Water				
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	1/18/07 2036	Steven A Skiles	10
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	1/19/07 2346	Michael A Ziegler	2
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	1/20/07 0009	Michael A Ziegler	20
01146	GC VOA Water Prep	SW-846 5030B	2	1/18/07 2036	Steven A Skiles	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	1/19/07 2346	Michael A Ziegler	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	1/20/07 0009	Michael A Ziegler	20
4957706	IW-1-mid-W-070111	Grab Water				
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	1/18/07 1754	Steven A Skiles	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	1/20/07 0033	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	1/18/07 1754	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	1/20/07 0033	Michael A Ziegler	1
4957707	IW-1-post-W-070111	Grab Water				
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	1/18/07 1827	Steven A Skiles	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	1/20/07 0057	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	1/18/07 1827	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	1/20/07 0057	Michael A Ziegler	1

Client Name: Chevron c/o Cambria

Group Number: 1021343

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: 07018A07A		Sample number(s): 4957705-4957707						
TPH-GRO - Waters	N.D.	50.	ug/l	114	114	70-130	0	30
Batch number: Z070193AA		Sample number(s): 4957705-4957707						
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	84		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	80		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	85		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	86		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	99		69-127		
Benzene	N.D.	0.5	ug/l	85		85-117		
Toluene	N.D.	0.5	ug/l	87		85-115		
Ethylbenzene	N.D.	0.5	ug/l	89		82-119		
Xylene (Total)	N.D.	0.5	ug/l	91		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: 07018A07A		Sample number(s): 4957705-4957707 UNSPK: P959905							
TPH-GRO - Waters	127	125	63-154	1	30				
Batch number: Z070193AA		Sample number(s): 4957705-4957707 UNSPK: P958437							
Methyl Tertiary Butyl Ether	88	87	69-127	0	30				
di-Isopropyl ether	86	85	75-130	2	30				
Ethyl t-butyl ether	91	90	78-119	2	30				
t-Amyl methyl ether	91	90	72-125	1	30				
t-Butyl alcohol	(2)	(2)	64-130	3	30				
Benzene	95	92	83-128	3	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.

Toluene	94	94	83-127	0	30
Ethylbenzene	97	97	82-129	0	30
Xylene (Total)	96	96	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: 07018A07A

Trifluorotoluene-F	
4957705	106
4957706	106
4957707	105
Blank	102
LCS	109
LCSD	110
MS	117
MSD	114
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates by 8260B

Batch number: Z070193AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4957705	104	86	93	92
4957706	106	89	93	89
4957707	106	88	93	92
Blank	107	90	93	90
LCS	105	91	93	92
MS	107	90	92	91
MSD	105	91	93	95
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.

QC Comment

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.

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

4957705 IW-1-pre-W-070111 Grab Water

01728 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.

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

4957706 IW-1-mid-W-070111 Grab Water

01728 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.

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

4957707 IW-1-post-W-070111 Grab Water

01728 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.

06056 BTEX+5 Oxygenates by 8260B

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 = 6.

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

ANALYTICAL RESULTS

Prepared for:

Chevron c/o Cambria
Suite 110
2000 Opportunity Drive
Roseville CA 95678
916-677-3407

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1023534. Samples arrived at the laboratory on Tuesday, Jan 30 2007.
The project for this group is 90917.
The PO# for this sample group is 0015002176.
The release number for this sample group is MTI.

<u>Sample No.</u>	<u>Collected</u>	<u>Client Description</u>
4969523	1/25/2007 8:15	IW-1-W-070125 Grab Water Facility# 90917 MTI# 61H-1959 CETK 5280 Hopyard-Pleasanton T0600100345 IW-1
4969524	1/25/2007 12:00	IW-1-W-070125 Grab Water Facility# 90917 MTI# 61H-1959 CETK 5280 Hopyard-Pleasanton T0600100345 IW-1
4969525	1/25/2007 15:40	IW-1-W-070125 Grab Water Facility# 90917 MTI# 61H-1959 CETK 5280 Hopyard-Pleasanton T0600100345 IW-1

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

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

Respectfully Submitted,


Melissa A. McDermott

ANALYTICAL RESULTS

Prepared for:

Chevron c/o Cambria
Suite 110
2000 Opportunity Drive
Roseville CA 95678
916-677-3407

Prepared by:

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

Senior Chemist

Chevron c/o Cambria
 Project: 5280 Hopyard-Pleasanton T0600100345 IW-1
 SDG:

Report Date: 2/12/2007 19:38
 Submit Date: 1/30/2007 9:15

Analysis Name	Units	4969523		4969524		4969525	
		IW-1-W-0	MDL	IW-1-W-0	MDL	IW-1-W-0	MDL
TPH-GRO - Waters	ug/l	18,000.	250.	N.D.	50.	53.	50.
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	0.6	0.5	0.6	0.5
di-Isopropyl ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Ethyl t-butyl ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
t-Amyl methyl ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
t-Butyl alcohol	ug/l	7.	2.	2.	2.	3.	2.
Benzene	ug/l	460.	3.	N.D.	0.5	N.D.	0.5
Toluene	ug/l	19.	0.5	N.D.	0.5	N.D.	0.5
Ethylbenzene	ug/l	400.	3.	N.D.	0.5	N.D.	0.5
Xylene (Total)	ug/l	650.	3.	N.D.	0.5	N.D.	0.5

CAT No.	Analysis Name	Method	Trial Analysis		Analyst	Dilution
			ID	Date/Time		
4969523	IW-1-W-070125	Grab Water				
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	2/1/07 1617	K. Robert Caulfeild-Jam	5
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	2/5/07 1445	Dawn M Harle	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	2/5/07 1509	Dawn M Harle	5
01146	GC VOA Water Prep	SW-846 5030B	1	2/1/07 1617	K. Robert Caulfeild-Jam	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	2/5/07 1445	Dawn M Harle	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	2/5/07 1509	Dawn M Harle	5
4969524	IW-1-W-070125	Grab Water				
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	2/1/07 1844	K. Robert Caulfeild-Jam	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	2/5/07 1533	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	2/1/07 1844	K. Robert Caulfeild-Jam	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	2/5/07 1533	Dawn M Harle	1
4969525	IW-1-W-070125	Grab Water				
01728	TPH-GRO - Waters	TPH GRO SW-846 8015B mod	1	2/1/07 1914	K. Robert Caulfeild-Jam	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	2/5/07 1558	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	2/1/07 1914	K. Robert Caulfeild-Jam	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	2/5/07 1558	Dawn M Harle	1

Client Name: Chevron c/o Cambria

Group Number: 1023534

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCS/LCS %REC	LCS/LCS Limits	RPD	Max RPD
Batch number: 07032A08A		Sample number(s): 4969523-4969525						
TPH-GRO - Waters	N.D.	50.	ug/l	106	108	70-130	2	30
Batch number: Z070362AA		Sample number(s): 4969523-4969525						
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	98		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	98		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	101		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	99		69-127		
Benzene	N.D.	0.5	ug/l	99		78-119		
Toluene	N.D.	0.5	ug/l	106		85-115		
Ethylbenzene	N.D.	0.5	ug/l	102		82-119		
Xylene (Total)	N.D.	0.5	ug/l	106		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: 07032A08A		Sample number(s): 4969523-4969525 UNSPK: P969125							
TPH-GRO - Waters	85		63-154						
Batch number: Z070362AA		Sample number(s): 4969523-4969525 UNSPK: P970327							
Methyl Tertiary Butyl Ether	90	86	69-127	2	30				
di-Isopropyl ether	100	99	68-129	1	30				
Ethyl t-butyl ether	99	98	78-119	1	30				
t-Amyl methyl ether	99	98	72-125	1	30				
t-Butyl alcohol	(2)	(2)	64-130	0	30				
Benzene	104	103	83-128	0	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.

Toluene	106	107	83-127	1	30
Ethylbenzene	107	108	82-129	0	30
Xylene (Total)	107	106	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: 07032A08A

Trifluorotoluene-F	
4969523	99
4969524	95
4969525	96
Blank	94
LCS	103
LCSD	104
MS	102
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates by 8260B
Batch number: Z070362AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4969523	94	92	108	102
4969524	95	94	105	96
4969525	95	95	105	98
Blank	96	94	104	97
LCS	96	95	105	99
MS	96	96	106	102
MSD	96	95	105	103
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.

QC Comment

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.

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

4969523 IW-1-W-070125 Grab Water

01728 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.

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

4969524 IW-1-W-070125 Grab Water

01728 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.

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.

06056 BTEX+5 Oxygenates by 8260B

The pH of the GC/MS volatile fraction was pH = 6 at the time of analysis.

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

4969525 IW-1-W-070125 Grab Water

01728 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.

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.

06056 BTEX+5 Oxygenates by 8260B

The pH of the GC/MS volatile fraction was pH = 6 at the time of analysis.

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

C A M B R I A



Attachment C
Boring Logs and Soil Data

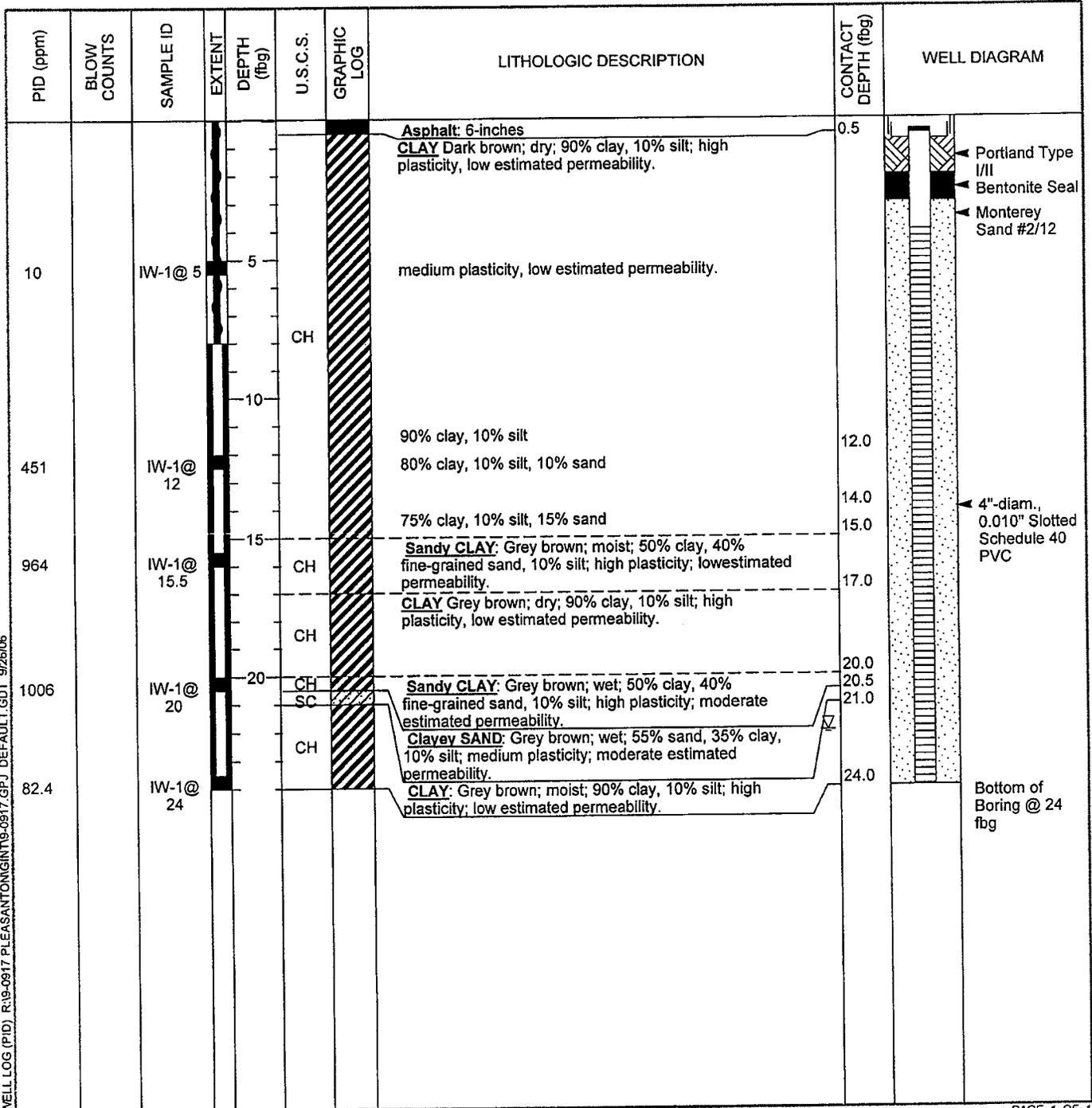


Cambria Environmental Technology, Inc.
 2000 Opportunity Drive, Suite 110
 Roseville, CA
 Telephone: 916-677-3407
 Fax: 916-677-3687

BORING/WELL LOG

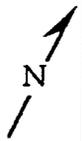
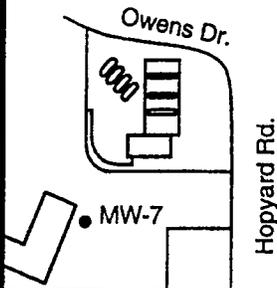
CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	IW-1
JOB/SITE NAME	9-0917	DRILLING STARTED	04-Aug-06
LOCATION	5280 Hopyard Road, Pleasanton, CA	DRILLING COMPLETED	04-Aug-06
PROJECT NUMBER	61H-1959	WELL DEVELOPMENT DATE (YIELD)	15-Aug-06 (100)
DRILLER	Gregg Drilling & Testing, Inc.	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger/ Geoprobe	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	4 to 24 fbg
LOGGED BY	K. Hoey	DEPTH TO WATER (First Encountered)	22.0 fbg (04-Aug-06) ∇
REVIEWED BY	D. Herzog, PG# 7211	DEPTH TO WATER (Static)	NA ∇

REMARKS



WELL LOG (PID), R:\9-0917 PLEASANTON\GINT19-0917.GPJ DEFAULT.GDT 9/26/06

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-7
PAGE 1 OF 1

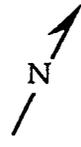
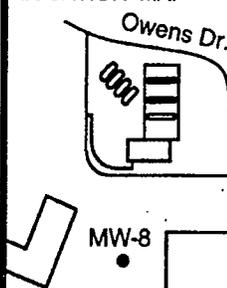
PROJECT NO. 320-164.1B
 LOGGED BY: T.B.
 DRILLER: MDE
 DRILLING METHOD: HSA
 SAMPLING METHOD: CALMOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.020"
 SAND PACK: 2 X 12 SAND

CLIENT: CHEVRON
 DATE DRILLED: 5-5-97
 LOCATION: 5280 Hopyard Rd., Pleasanton
 HOLE DIAMETER: 8"
 HOLE DEPTH: 21.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 20'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				1			CL	ASPHALT
				2				SILTY CLAY: dark brown; medium plasticity; 80-90% silt and clay; 10-20% sand; dense; no product odor.
				3				
				4				
			27	5			CL	CLAY: dark brown; medium plasticity; 90% silt and clay; 10% fine to medium sand; very stiff; no product odor.
				6				
				7				
				8				
				9				
			24	10				@ 10': as above; dark brown; medium plasticity; 95% silt and clay; 5% sand; very stiff.
				11				
				12				
				13				
				14				
			17	15			SC	@ 15': as above.
				16				CLAYEY SAND: very dark grayish brown; 45% silt and clay; 55% sand; medium dense; no product odor.
				17				
				18				
				19			CL	SANDY CLAY: dark brown; medium plasticity; 70% silt and clay; 30% sand; stiff; no product odor.
				20				
			13	21				
				22				

BOTTOM OF BORING AT 21.5'

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-8
PAGE 1 OF 1

PROJECT NO. 320-164.1B
 LOGGED BY: T.B.
 DRILLER: MDE
 DRILLING METHOD: HSA
 SAMPLING METHOD: CALMOD
 CASING TYPE: SCH 40 PVC
 SLOT SIZE: 0.020"
 SAND PACK: 2 X 12 SAND

CLIENT: CHEVRON
 DATE DRILLED: 5-5-97
 LOCATION: 5280 Hopyard Rd., Pleasanton
 HOLE DIAMETER: 8"
 HOLE DEPTH: 21.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 20'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	FID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS			
<p>GROUT BENTONITE SAND SLOUGH</p>	Dp		29	1			CL	ASPHALT			
				2			CL	SILTY CLAY: dark brown; moderate plasticity; 90% silt and clay; 8% medium sand; 2% fine subrounded gravel; no product odor.			
				3			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				4			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				5			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				6			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				7			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				8			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				9			CL	CLAY: black to very dark brown; moderate plasticity; 90% silt and clay; 7% medium sand; 3% fine subrounded gravel; very stiff; no product odor.			
				10	Mst	17				CL	@10': very dark brown; moderate plasticity; 90% silt and clay; 5% medium to fine sand; 5% gravel; very stiff; no product odor.
				11						CL	@10': very dark brown; moderate plasticity; 90% silt and clay; 5% medium to fine sand; 5% gravel; very stiff; no product odor.
				12						CL	@10': very dark brown; moderate plasticity; 90% silt and clay; 5% medium to fine sand; 5% gravel; very stiff; no product odor.
				13						CL	@10': very dark brown; moderate plasticity; 90% silt and clay; 5% medium to fine sand; 5% gravel; very stiff; no product odor.
				14						CL	@10': very dark brown; moderate plasticity; 90% silt and clay; 5% medium to fine sand; 5% gravel; very stiff; no product odor.
				15	Wt	12				CL	@15': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel; stiff; no product odor.
				16						CL	@15': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel; stiff; no product odor.
				17						CL	@15': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel; stiff; no product odor.
				18						CL	@15': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel; stiff; no product odor.
				19						CL	@15': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel; stiff; no product odor.
				20	Wt	20				CL	@20': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel.
				21						CL	@20': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel.
				22						CL	@20': dark grayish brown with dark gray mottling; moderate plasticity; 95% silt and clay; 5% fine to medium sand; trace gravel.

BOTTOM OF BORING AT 21.5'

COOPER TESTING LABS

MOISTURE DENSITY - POROSITY DATA SHEET

Job #	049-024				
Client	Pacific Environmental				
Project/Location	320-164.1B				
Date	5/15/97				
Boring #	MW-8	MW-8	MW-7		
Depth (ft)	6	11	16		
Soil Type	black CLAY w/sand	grayish brown CLAY w/sand	grayish brown clayey SAND		
Specific Gravity	2.71	2.71	2.71		
Volume Total cc	282.774	287.645	131.467		
Volume of Solids	163.224	170.468	84.054		
Volume of Voids	119.550	117.177	47.413		
Void Ratio	0.732	0.687	0.564		
Porosity %	42.3%	40.7%	36.1%		
Saturation %	98.4%	98.2%	97.0%		
Moisture %	26.6%	24.9%	20.2%		
Dry Density (pcf)	97.7	100.3	108.2		

Remarks

Specific Gravity
ASTM D-854

Cooper Testing Lab

Job#:	049-024a			Date:	05/15/97		
Client:	Pacific Environmental			By:	DC		
Project:	320-164-1B						
Boring:	MW-8	MW-8	MW-7				
Sample:							
Depth, ft.:	6	11	16				
Soil Classification: (visual)	blck CLAY w/sand	gray brown CLAY w/sand	grayish brown clayey SAND				
Wt. of Pycnometer Soil & Water, gm:	700.8	721.2	707.6				
Temp. centigrade:	22	23	23				
Wt. of Pycnometer & Water, gm:	671.35	671.24	662.58				
Wt. Dry Soil, gm:	46.72	79.2	71.31				
Temp. Correction Factor:	1	1	1				
Specific Gravity:	2.71	2.71	2.71	ERR	ERR	ERR	

Remarks: The temperature correction factor is shown as 1 if the weight of the pycnometer is taken from the lab temperature correction curve.

Organic Content
ASTM D2974



Cooper Testing Lab

JOB NO.: 049-024		DATE: 05/12/97			
CLIENT: Pacific Environmental		BY: DC			
PROJECT 320-164-1B					
BORING:	MW-7	MW-8	MW-8		
SAMPLE:					
DEPTH, ft.:	16	6	11		
SOIL CLASSIFICATION: (visual)	gray brown clayey SAND	black CLAY with sand	gray brown CLAY with sand		
SOIL, ORGANICS & DISH, gm:	159.61	126.14	121.38		
SOIL & DISH, gm:	158.08	124.07	119.92		
DISH, gm:	82.68	84.55	81.93		
SOIL, gm:	75.4	39.52	37.99	0	0
SOIL & ORGANICS, gm:	76.93	41.59	39.45	0	0
% ORGANICS:	2.0	5.0	3.7	ERR	ERR