HEALTH CARE SERVICES

AGENCY







ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

(510) 567-6700

Joan and Kirk Beales Trs 337-9335 24 North Terrace Tiburon, CA 94920-2019

October 12, 2006

Mr. Dana Thurman Chevron 6001 Bollinger Canyon Rd., K2236 P.O. Box 6012 San Ramon, CA 94583

Dear Mr. Thurman and Joan and Kirk Beales Trs:

Subject: Fuel Leak Site Case Closure, Chevron #9-0338, 5500 Telegraph Ave., Oakland, CA

94609; Case No. RO0000221.

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Up to 1.3 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHg), 2000 ppm TPH as diesel, 2800 ppm TPH as hydraulic oil, 2600 ppm oil and grease, 0.017, 0.0058, 0.044, 0.067, 0.74 ppm, benzene, toluene, ethyl benzene, xylenes and MTBE. respectively and 29.1, 6.8, 23, 47 ppm chromium, lead and zinc, respectively, remain in soil at this site.
- Up to 240 parts per billion (ppb) TPHg and 13,1,13,14 ppb, benzene, toluene, ethyl benzene, xylenes, respectively, 710, 5, 38 ppb methyl tertiary butyl ether (MTBE), TAME, TBA, respectively, and 80.5, 16.7, 126, 143 ppb, chromium, lead, nickel and zinc, respectively remain in groundwater at this site.

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

Sincerely.

Donna L. Drogos, P.E.

LOP and Toxics Program Manager

Enclosures:

- 1. Remedial Action Completion Certificate
- 2. Case Closure Summary

CC:

Mr. Leroy Griffin (w/enc) Oakland Fire Department 250 Frank Ogawa Plaza, Suite 3341 Oakland, CA 94612 Mr. Toru Okamoto (w/enc) State Water Resources Control Board UST Cleanup Fund P.O. Box 944212 Sacramento, CA 94244-2120

(B. Chan) (w/orig enc), D. Drogos (w/enc), R. Garcia (w/enc)

CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: 6/16/06

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6765
Responsible Staff Person: Barney Chan	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Chevron #9-	0338			
Site Facility Address: 5500 Tele	egraph Avenue, Oakland, CA 94609			
RB Case No.:	Local Case No.: LOF		Case No.: RO221	
URF Filing Date:	SWEEPS No.: APN		l: 14-1221-10-1	
Responsible Parties	Responsible Parties Addresses		Phone Numbe	ers
Chevron Mr. Dana Thurman	6001 Bollinger Canyon Rd., K2236 P.O. Box 6012 San Ramon, CA 94583		(925) 842-9559	k
Joan and Kirk Beales Trs	an and Kirk Beales Trs 24 North Terrace Tiburon, CA 94920-2019			

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1-3	10,000	UL gasoline	Removed	7/98
4	1000	Waste oil	Removed	7/98
	Piping			

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Date Approved By Oversight Agency:		
	Number: 4	Proper screened interval? yes
Highest GW Depth Below Ground Surface: 5.79' bgs		Flow Direction: southwest
		Number: 4

Summary of Production Wells in Vicinity: No drinking water supply wells located within ½ mile of site. The nearest supply well is an irrigation well located approximately 1900' down-gradient of site. Because of limited residual source and the distance to the well, it is not likely to be impacted by this site.

Are drinking water wells affected? No	lls affected? No Aquifer Name: Oakland Sub basin- East Bay Plain		
Is surface water affected? No Nearest SW Name: Glen Echo Creek, ~ 1 mile south of site			
Off-Site Beneficial Use Impacts (Addresses/L	_ocations): none		
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department		

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	3-10,000 gallon 1-1000 gallon	Disposed by ECI, Richmond, CA	7/22/98
Piping	Unknown amount	Disposed by ECI, Richmond, CA	7/22/98
Free Product	300 pounds	Disposed Chem Waste Mgmt, Kettleman City	9/14/98
Soil	40cy 700 cy 306 cy	Reused onsite Reused at 3647 Shellmound Rd., Emeryville Disposed at BFI Landfill, Livermore	7/2//98 7/31/98 9/98 & 8/98
Groundwater	1500 gallons	Disposed at McKittrick facility, Buttonwillow	8/7/98

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments for additional information on contaminant locations and concentrations)

Contaminant	Soil	Soil (ppm)		Water (ppb)	
Containinant	Before	After	Before	After	
TPH (Gas)	1.3	1.3	11,000	240	
TPH (Diesel)	*2000	*2000			
TPH (Hydraulic oil)	2800	2800			
Oil & Grease	*2600	*2600	<320	<320	
Benzene	0.017	0.017	350	13	
Toluene	0.0058	0.0058	170	1	
Ethylbenzene	0.044	0.044	626	13	
Xylenes	0.067	0.067	1900	14	
Heavy Metals: (Cd, Cr, Pb, Ni, Zn)	<0.5, 29.1, 6.8, 23, 47	<0.5, 29.1, 6.8, 23, 47	<10, 80.5, 16.7, 126, 143	<10, 80.5, 16.7, 126, 143	
мтве	**0.74	**0.74	+15,000	+710	
Other (8240/8270)	ND/ND	ND/ND	ND/	ND/	

^{*} Results are from samples taken from the hydraulic lift excavations and are possibly from hydraulic oil releases

^{**} MTBE results only for soil, TAME, ETBE, DIPE, TBA, EtOH, EDB and EDC not analyzed

^{+ 5} ppb TAME,<0.5 ppb ETBE, <0.5 ppb DIPE, 38 ppb TBA, <50 EtOH ppb, NA EDB, and NA EDC

Site History and Description of Corrective Actions:

The site is an active service station located at the northeastern corner of Telegraph Ave. and 55th St. in Oakland. Land use in the vicinity is mixed commercial and residential. The site is bordered to the north by Highway 24, to the east by residential housing, to the west by Telegraph Ave. and to the south by 55th St. Current site facilities include a station building, car wash, six dispenser islands under a common canopy and two underground tanks located near the northern boundary. See Attachment 1 for site location and Attachment 2 for current site configuration.

This site was originally investigated after the October 5, 1988 removal of a 1000 gallon waste oil tank and the June-July 1989 removal and replacement of fuel tank pipe lines. This site was investigated and subsequently closed by our office on April 5, 1995. During this investigation, three monitoring wells were installed, C-1 through C-3. In this investigation, groundwater was initially encountered at approximately 24' bgs and equilibrated at approximately 12' bgs. Depth to groundwater varied from 7-12' bgs. Gradient was determined to be southwest. The three wells at the site were kept for future monitoring. The waste oil tank was replaced by another 1000 gallon UST to the south of the original, just east of the station building. See Attachment 3 for the first generation tank configuration and boring logs in Attachment 11.

On June 30, 1998, prior to the removal of the four USTs at the site, a groundwater sample was taken from the tank backfill observation well. This sample reported 15, 000 ppb MTBE. See Attachment 4A for this sample location. Based upon this result, the site was reopened. After the removal of the three fuel USTs and the waste oil tank, two fuel tanks were installed just east of the former fuel USTs, however, the waste oil tank was not replaced. The station building was moved to the west and a car wash was installed in the northeast corner of the site. Monitoring well C-3 was decommissioned during this reconfiguration.

On July 22, 1998, the three 10k gasoline USTs were removed from a common pit. The excavation was taken down to approximately 14' bgs. Groundwater appeared at approximately 9' bgs. A total of six sidewall samples (CX-1-9 through CX-6-9) were collected. TPHg was not detected in any of the soil samples. Up to 0.74 ppm MTBE and 0.013 ppm benzene was detected in the soil samples. Because the on-site wells were sampled on June 28, 1998, the OFD waived collection of a groundwater sample. The waste oil tank also removed the same day from a separate tank pit was excavated to a depth of 9' bgs. One soil sample was collected from the bottom of the pit, CW-1-9. This soil sample detected 130 ppm oil and grease and 29.1, 18.9, 35.2 ppm, chromium, nickel and zinc, respectively. TPHg, BTEX, MTBE, TPHd, VOCs, SVOCs, lead and cadmium were all ND. Soil samples collected beneath the dispensers and the product lines were collected at depths ranging from 3.5-4' bgs. These samples were ND for TPHg, benzene, toluene, ethyl benzene and MTBE. Three hydraulic lifts and an oil-water separator were also removed from inside the former station building. Three soil samples, CT-1-9 through CT-3-9, were collected from the hydraulic lift excavations at a depth of 9'bgs. Only CT-3-9 detected TPH as hydraulic oil. This sample detected 2800 ppm TPHho, 2000 ppm TPHd, 2600 ppm oil and grease and 1.6 ppm TPHg. This sample was not over-excavated. See Attachment 4 for sample locations and Attachment 7 for Historic Soil Data.

Approximately 700 cy of soil from the excavation and the enlargement of the tank pit for the new tanks was sampled and approved for reuse by the OFD. The soil was transported to 3647 Shellmound Road, Emeryville for reuse. Approximately 252 cy of soil was generated from the excavation of soils for the carwash facility. This soil was sampled, characterized and disposed at the Vasco Rd. landfill in Livermore. Prior to removal, approximately 300 pounds of hydraulic fluid was removed and disposed from the lifts. Approximately 54 cy of soil from the excavation of the hydraulic lifts was also disposed at the Vasco Rd. landfill. Approximately 1500 gallons of groundwater was removed from the tank pit and disposed at the McKitrrick Disposal facility in Buttonwillow, CA.

In May 1999 monitoring wells C-4 and C-5 were installed at the site to further investigate the release of contaminants to groundwater down-gradient of the former hydraulic lifts and the fuel USTs, respectively. Up to 1.3 ppm TPHg, 0.017, 0.12 and 0.1 ppm benzene, xylenes and MTBE were detected in soil samples from these well borings. Additionally, monitoring wells C-1 and C-2 were drilled out 1-1.5' beyond their original depth to ~31' bgs, backfilled to 20' with bentonite and then replacement wells, C-1A and C-2A were installed within the same boreholes and constructed similarly to wells C-4 and C-5. Because of this construction method, no soil samples were collected from wells C-1A and C-2A. Initial groundwater results indicated the highest MTBE and benzene concentrations immediately down-gradient of the UST pit and the highest TPHg concentrations down-gradient of the dispenser islands. These wells have been monitored for approximately six years, from 5/99 to 2/05. See Attachment 10 for historic monitoring data.

A Site Conceptual Model (SCM) was submitted in September 2001. Based upon DWR reports, the nearest supply well identified is an irrigation well approximately 1900' southwest of the site. The nearest surface water is Glen Echo Creek, approximately 1 mile south of the site. Neither is expected to be affected by the release. See Attachment 9 for the Well Search Map and Results. The site geology consists of sandy clays and silts, underlain by clayey gravels

and gravelly sandy clay to the total depth explored, 32.5'. The water bearing zone consists of clayey gravel and silty sand. Groundwater is first encountered at about 24' bgs and equilibrates from 7-12' bgs. Two source areas have been identified, the former tank pit and the dispenser islands. These release areas have been remediated by removing the old USTs, impacted soil and groundwater and replacing the old dispenser islands and piping. Vadose soils have been excavated to approximately 14' within the former tank pit and to approximately 9' in the area of the former hydraulic lifts. Monitoring wells C-5 and C-1A are located down-gradient of the UST pit and dispenser islands, respectively. See Attachment 5 for a cross-sectional diagram of the site and a rose diagram.

In August 2002 a soil and groundwater investigation was performed to investigate the utility trenches down-gradient of the site and further delineate the petroleum plume. Four hand-auger borings were advanced to depths ranging from 11.5-18' bgs adjacent to the utility trenches in Telegraph Avenue and 55th Street. Soil samples were collected from each boring from depths ranging from 11-12' bgs. All soil sample results were ND for TPHg, BTEX and MTBE. Groundwater samples were collected from these borings and analyzed for the same chemicals. The only contaminant detected was MTBE at 37 ppb in HA2-W and 4 ppb in HA3-W. It appears that although the plume has impacted the off-site utility trenches, MTBE is the only COC detected and it is found at low levels. See Attachment 6 for a cross-section extended through the hydropunch borings and Attachment 8 for grab groundwater results.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes No

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes No

Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.

Site Management Requirements: site is recommended for closure for the current commercial use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case be re-evaluated. The site will be placed in the City of Oakland Permit Tracking System. Any subsurface work at the site requires a health and safety plan to address potential petroleum hydrocarbon impacts to soil and groundwater.

Should corrective action be reviewed if land use changes? Yes

Was a deed restriction or deed notification filed? No		Date Recorded: NA
Monitoring Wells Decommissioned: Yes Number Decommissioned: 3		Number Retained: 4
List Enforcement Actions Taken: NA		
List Enforcement Actions Rescinded: NA		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

- The plume has not been completely delineated to the north and northwest directions of monitoring well C-5 and southwest of well C-1, which are cross-gradient of the source areas. However, the grab groundwater samples taken down-gradient of these wells show very low TPHg, BTEX and MTBE concentrations, which are assumed to be representative of the plume.
- Although TPHd and TPH as hydraulic oil were detected from beneath the former hydraulic lifts, these analytes
 were not run in the groundwater sample from the down-gradient well, C-4. The TPHd reported did not
 resemble the standard and was likely from the hydraulic oil release. The toxicity of hydraulic oil is low and
 generally does not require remediation beyond removal of saturated material.

- The lead scavengers, EDB and EDC were not analyzed in soil or groundwater samples. Only MTBE was analyzed in soil samples.
- The highest concentration of MTBE reported in groundwater, 15, 000 ppb was from a grab groundwater sample
 from an observation tank backfill well run by EPA Method 8020. The highest concentration of MTBE ever
 reported in a monitoring well sample run by EPA Method 8260 was 2500 ppb.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use (service station) based upon the information available in our files to date. Residual soil and groundwater contamination in vicinity of former USTs appears localized and attenuating. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Barney Chan	Title: Hazardous Materials Specialist
Signature: Barrey lua	Date: 6-16-06
Approved by: Donna L. Ørogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature:	Date: 07/25/06

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature:	Date:

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH:	Date of Well Decommissioning Report:	
All Monitoring Wells Decommissioned: No	Number Decommissioned: 3	Number Retained: 4
Reason Wells Retained:		
Additional requirements for submittal of groundwater data from retained wells:		
ACEH Concurrence - Signature: Date:		Date:

- The lead scavengers, EDB and EDC were not analyzed in soil or groundwater samples. Only MTBE was analyzed in soil samples.
- The highest concentration of MTBE reported in groundwater, 15, 000 ppb was from a grab groundwater sample from an observation tank backfill well run by EPA Method 8020. The highest concentration of MTBE ever reported in a monitoring well sample run by EPA Method 8260 was 2500 ppb.

Conclusion:

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VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Barney Chan	Title; Hazardous Materials Specialist
Signature: Barney ULA	Date: 6-16-06
Approved by: Donna L. Brogos, P.E. Signature	Title: Supervising Hazardous Materials Specialist Date://
- Low Blogs	Date: 07/25/06

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologiet
RB Response: Concur, based solely upon information contained in this case closure summary. Signature:	Date Submitted to RB: 8/16/06
Signature the Mc Canen	Date: 8/22/00

VIII. MONITORING WELL DECOMMISSIONING

ssioning Report: 10/10/06	Date of Well Decornmi	Date Requested by ACEH: 8/18/06
	Number Decommission	All Monitoring Wells Decommissioned: No Reason Wells Retained:
lls:	rater data from retained we	Additional requirements for submittal of grounds
lls:	rater data from retained we	Additional requirements for submittel of grounds

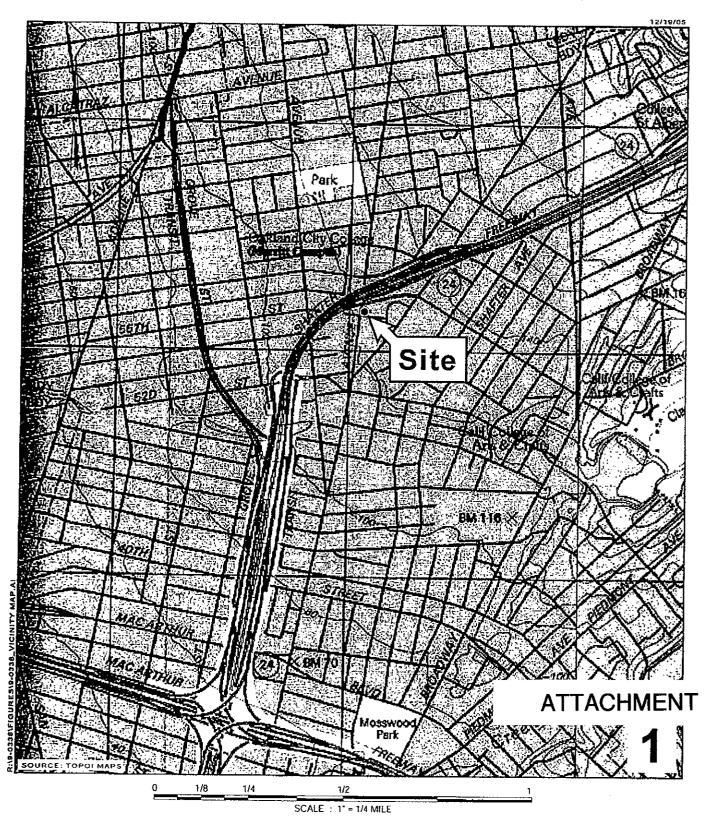
Page 5 of 6

RO221 - Closure Summary

Attachments:

- 1. Site Vicinity Map
- Site Plan 2.
- First Generation Tank Configuration 3.
- Well and Sample Locations 4.
- Tank Backfill Well Location 4A
- Cross-sectional and a Rose Diagrams 5.
- Cross-sectional Diagram Historical Soil Data 6.
- 7.
- Historical Grab Groundwater Data 8.
- 9. Well Search Map and Result
- Historic Monitoring Data 10.
- Boring Logs 11.

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



Chevron Service Station 9-0338

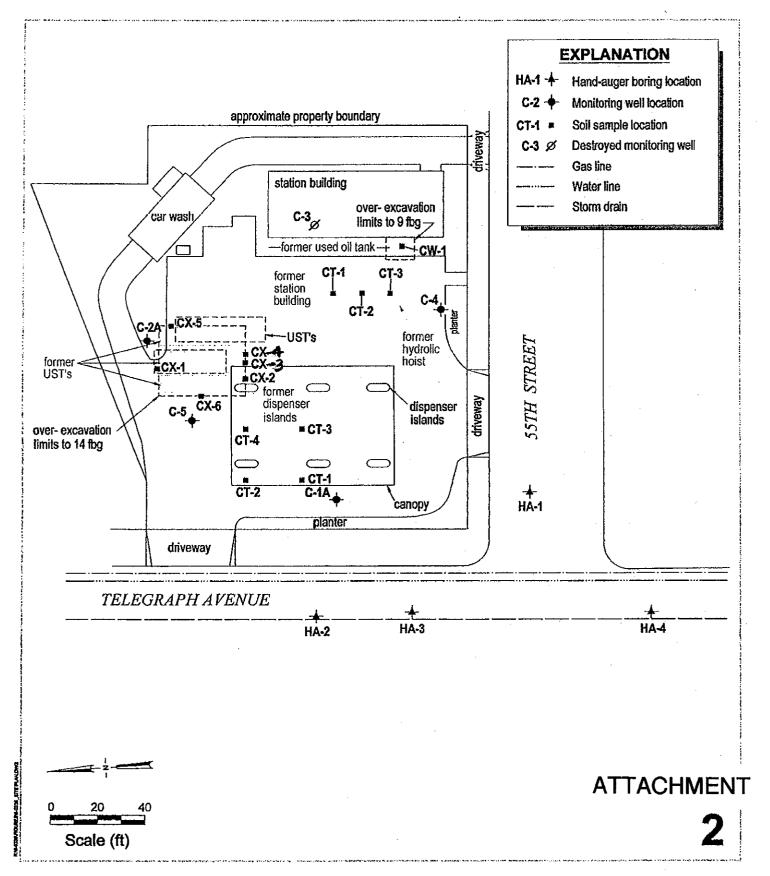


Vicinity Map

5500 Telegraph Avenue

Oakland, California

CAMBRIA

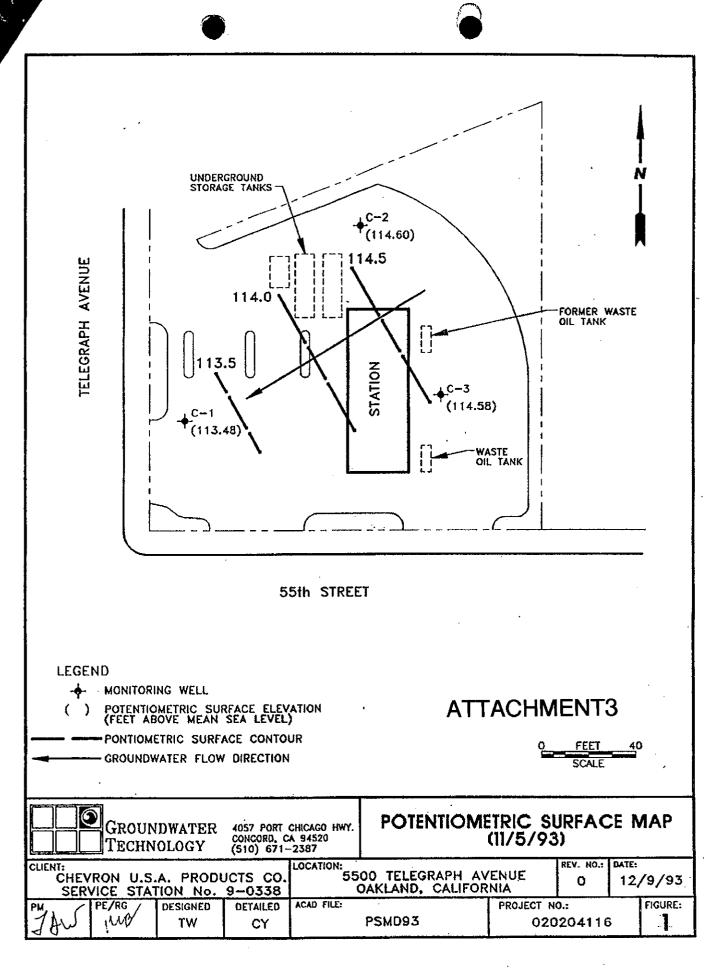


Chevron Service Station #9-0338

5500 Telegraph Avenue Oakland, California



Site Plan



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TANK WILL WILL 6/30/95 Dec. 17 1998 10:35AM P2 PHONE NO. : 916 631 1317 LER-RYAN INC. **2510 842 8370** 18:10 08/22/98 4-C2 UNDERGROUND GABOLINE STORAGE COMPLEX FORMER WASTE DIL. TELEGRAPH AVENUE SERVICE CHEVRON SERVICE STATION BUILDING WASTE OIL TANK DRAP 55TH AVENUE Approx. Ground-water Flow Direction **EXPLANATION** Ground-water monitoring well location **♦ C-1** 80 40 Scale in Feet

GSI

) GeoStrategies Inc.

Site Plan Chevron Service Station # 5500 Telegraph Avenua Oakland, California

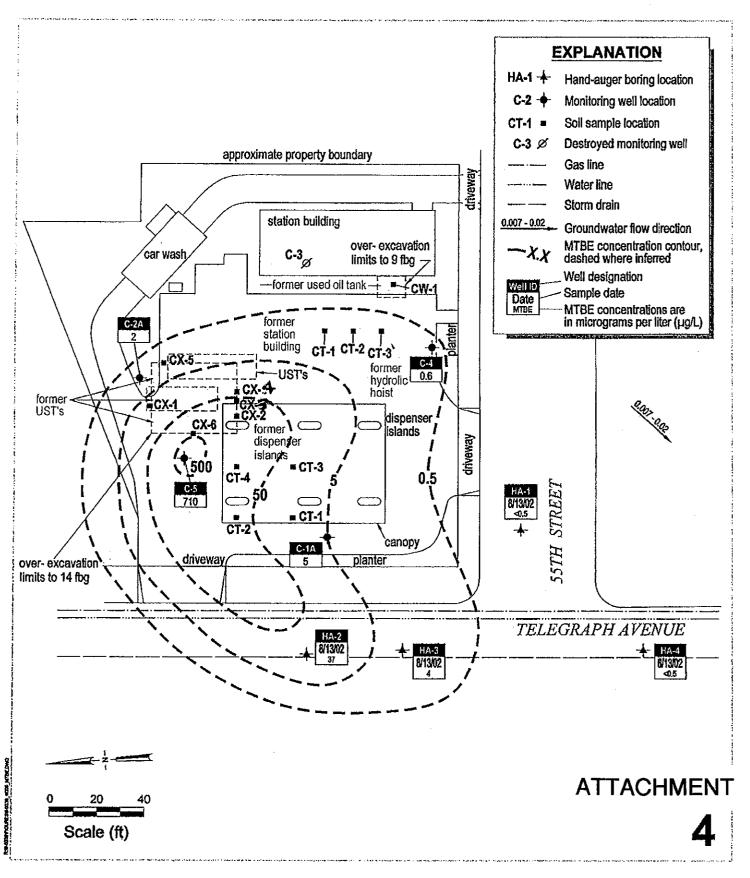
ATTACHMENT 4A

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REVISED DATE

REVISED DATE



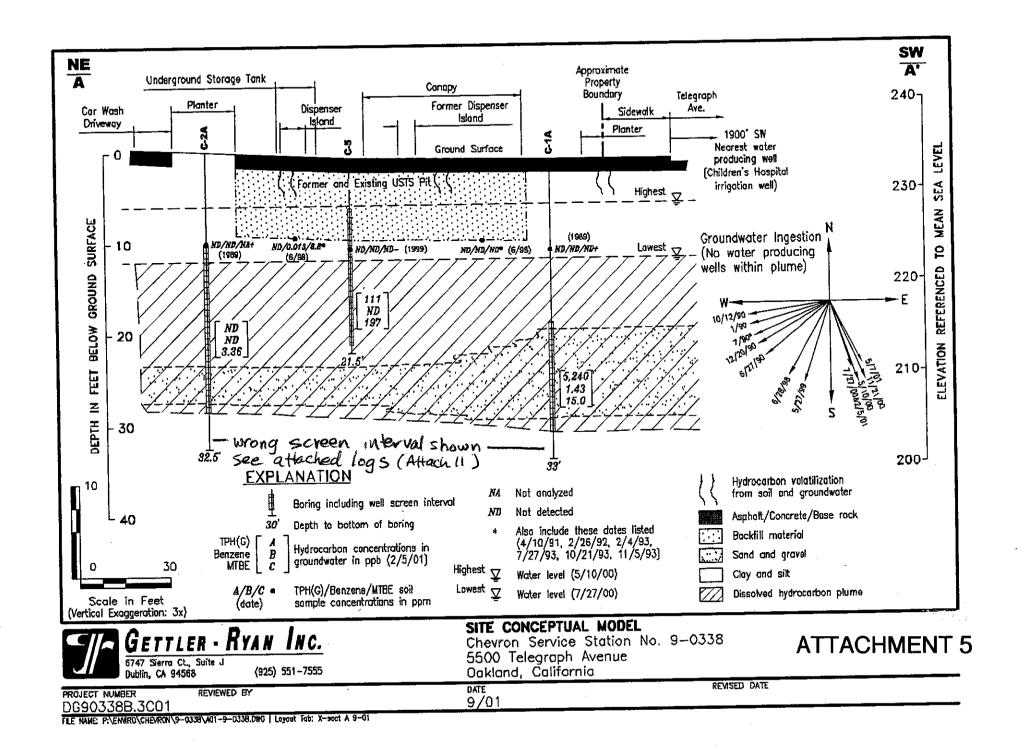
Chevron Service Station #9-0338

5500 Telegraph Avenue Oakland, California

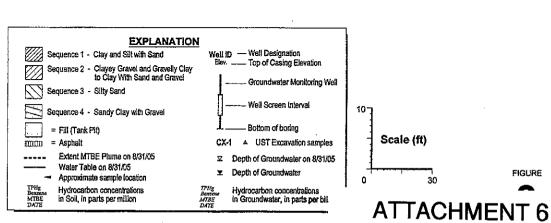


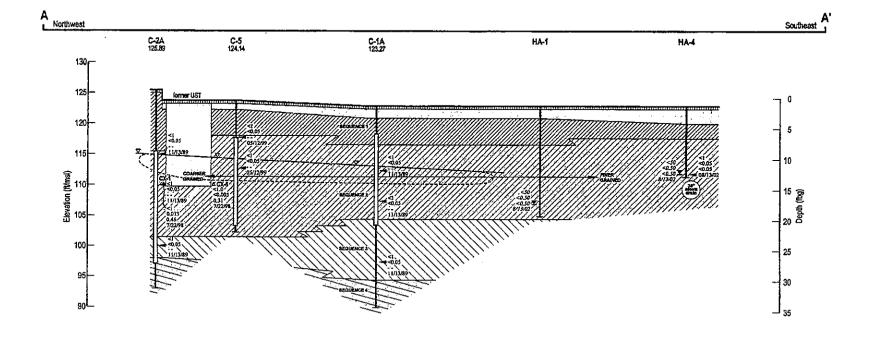
MTBE Isoconcentration Map

CAMBRIA



FIGURE





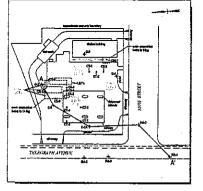


Table 1. Historical Soll Data - Chevron Station 9-0338, Oakland, California

Soll Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TPHd	O&G	Lead
					Concentre	atonsin partsp	er million (mg/kg	j uniess otherv	vise noted		
Jsed-Oil Tenk E	Excavation										
WOOP	10/5/1988	8	**		-				<10	<50	
omp Island and	d Product Line I	Excevation									
1	7/11/1989	6.75	<1	< 0.05	<0,1	<0.1	<0.1			-	
2	7/11/1989	6.75	130	<0.05	<0.1	2.2	3				
3	7/11/1989	6,25	<1	< 0.05	<0.1	<0.1	<0.1		_		
4	7/11/1989	6.26	490	0,31	<0.1	10	28	-		-	••
Monitoring Wells											
C-1	11/13/1989	10.5	<1	<0.05	<0.05	<0.05	<0.05	_	_	_	
C-1	11/13/1989	15.5	<1	<0.05	<0.05	<0.05	<0.05	_	_	_	_
C-1	11/13/1989	25.5	<1	<0,05	<0.05	<0.05	<0.05	-	-	_	_
C-2	11/13/1989	10.5	<1	<0.05	<0.05	<0.05	<0.05	_		_	
C-2	11/13/1989	15.5	<1 <1	<0,05	<0.05	<0.05	<0.05	_		_	_
C-2	11/13/1989	25.5	<1	<0.65	<0.05 <0.05	₹0.05	<0.05 <0.05	_		_	_
U-2	11/13/1989	29.0	<1	<0.05	₹0.05	*U,US	<0.05	-	***	-	-
C-3	11/13/1989	10.5	<1	<0.05	< 0.05	< 0.05	<0.05	~-	<10	<20	_
C-3	11/13/1989	15.5	<1	<0.05	<0.05	< 0.05	<0.05	-	<10	<20	-
C-3	11/13/1989	25.5	<1	<0.05	<0.05	<0.05	<0.05		<10	- 20	-
Jsed-Oil UST Ex	(cayallon										
CW-1	7/22/1998	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<1.0	130	<1.0
Former Gasoline	UST Complex	Excavation									
CX-1	7/22/1998	9	<1.0	0,013	0,0058	0.044	0.067	0.46	-	••	5.1
CX-2	7/22/1998	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.28	-		6,8
CX-3	7/22/1998	9	<1.0	<0.0050	<0.0050	<0.0050	0.0056	0.21			5.1
CX-4	7/22/1998	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.74	-		3.3
CX-5	7/22/1996	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050			6.4
CX-8	7/22/1998	9	<1.0	<0.0050	<0.0050	∢0.0050	<0.0050	0.31		**	6.2
Hydraulic Ults/S	and-Water Sep	arator Excava	lions								
CT-3	7/27/1998	9	1.6 1	<0.0050	<0.0050	<0.0050	<0,0050	<0.50	2000 ²	2600	<1.0
onduct Unas											
OT-1	7/27/1998	3.5	<1.0	< 0.0050	<0.0050	<0.0050	0.012	<0.050			<1.0
CT-2	7/27/1998	3.5	<1.0	<0.0050	<0.0050	<0.0050	0.0057	<0.050			2.8
CT-3	7/27/1998	4	<1.0	<0.0050	<0.0050	<0,0050	<0.0050	<0.050			1
CT-4	7/27/1998	4	<1.0	<0,0050	<0.0050	<0,0050	<0.0050	<0,050	-		<1,0
CT-5	7/27/1998	4	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0,050	-		<1.0
Monitoring Wells	<u> </u>	-									
C4	5/12/1999	6	<1,0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	-	-	₩.
C4	5/12/1999	11	<1.0	<0.0050	<0.0050	<0.0050	<0.0060	<0.050	-		
C4	5/12/1999	16	-	-	-	-	••	-		••	-
C5	5/12/1999	6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	-	-	
C5	5/12/1999	11	1.3	0.017	<0,0050	<0.0050	0.012	0.1	-	-	**
tend Augers											
HA1	8/12/2002	11,5	<1.0	<0.0050	<0,0050	<0.0050	<0.015	<0.050	-	-	-
HA2	8/12/2002	12	<1.0	<0.0050	<0,0050	<0.0050	<0.015	<0.050			-
HA3	8/13/2002	11	<1.0	<0,0050	<0.0050	<0,0050	<0.015	<0.050			_
HA4	8/13/2002	11	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	**	-	-

Analytical Laboratory Sequola Analytical (ELAP #1271) Lancester Laboratories (ELAP #2116) Analytical Methods

Analytical Methods
TPHg = Total petrolaum hydrocarbons as gasoline according to EPA method 8015 modified / LUFT methods
TPHd = Total petrolaum hydrocarbons as diesel according to EPA method 8015 modified
TPHho = Total petrolaum hydrocarbons as hydrautic oil according to EPA method 8015 modified
MTBE = Methyl leritary butly ether according to EPA method 8020/8021B
OSG = Total oil and grease according to standard methods 5200 E & F
VOCs = votattis organic compounds according to EPA method 8240 or 8910
SVOCs = semi-votattle organic compounds according to EPA method 8270
TPHg, bonzene, toluene, ethylbenzene, xylenes, MtBE = EPA methods 5030/8015/8020
Porestiv, densities = method API RP-40

Porosity, densities = method API RP-40 BTEX by EPA 8021B

Explanation ppm = parts per million ppb = parts per billion ND = not detected

- = analysis not requested

1 = unidentified hydrocarbons <C8

2 = Unidentified hydrocarbon < C13 3 = none of the constituent analytes were detected. Refer to analytical results

4 = unidentified hydrocarbon <C18
5 = Numerous SVOC constituents were detected in the dample. Refer to the chemical analytical data for constituents and instriduel concentrations

it = feat

gm/cc = gram per cubic centimeter

ATTACHMENT 7

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Table 2. Historical Grab-groundwater Data - Chevron Station 9-0338, Oakland, California

Sample ID	Date	TPHg	Benzene	Toluene	Ethylbenzene Concer	Xylenes strations in p	MTBE arts microga	ETBE ms per literç	DIPE (件)	TAME	ТВА
W-1	6/30/1998	<50	<0.5	<0.5	<0.5	<0.5	15,000				
HA1-W	8/13/2002	<50	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	<5.0
HA2-W	8/13/2002	<50	<0.5	<0.5	<0.5	<1.5	37	<0.5	<0.5	<0.5	<5.0
HA3-W	8/13/2002	<50	<0.5	<0.5	<0.5	<1.5	4	<0.5	<0.5	<0.5	<5.0
HA4-W	8/13/2002	<50	<0.5	<0.5	<0,5	<1.5	<0.5	<0.5	<0.5	<0,5	<5.0

Analytical Methods

TPHg = Total petroleum hydrocarbons as gasoline according to EPA method 8015 modified / LUFT methods

Benzene, toluene, ethylbenzene, xylenes by BPA method 8260B

MTBE = Methyl tertiary butly other according to RPA method 8260B

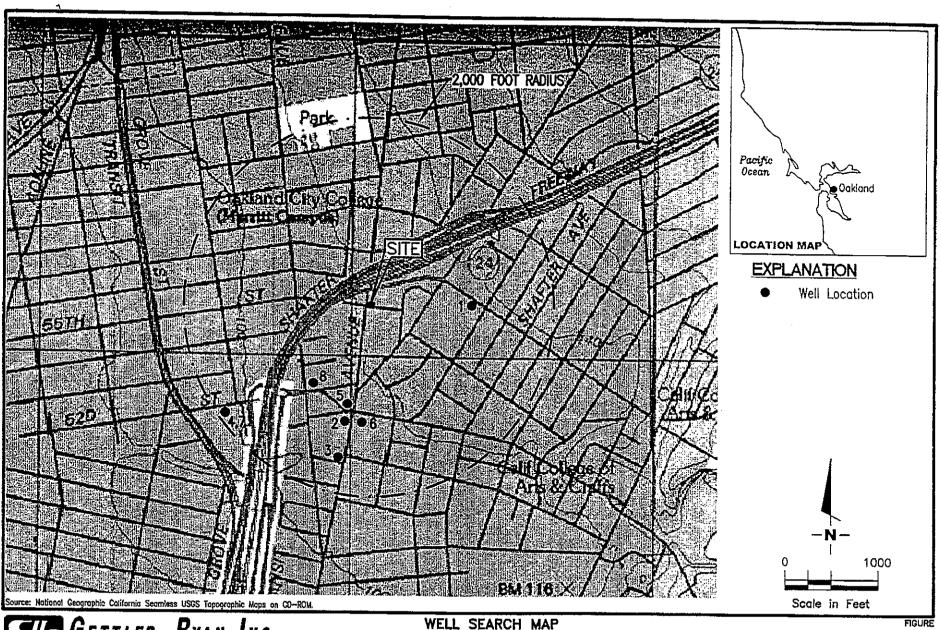
ETBE= Ethyl tert-butyl ether by EPA Method 8260B

DIPE= di-Isopropyl ether by EPA Method 8260B

TAME= tert-amyl methyl ether by EPA Method 8260B

TBA= tert-butyl alcohol by EPA Method 8260B

ATTACHMENT 8





PROJECT NUMBER

DG90338B.3C01

(925) 551-7555

Chevron Service Station No. 9-0338 5500 Telegraph Avenue Oakland, California

REVISED DATE

REVIEWED BY DATE 7/01

FILE NAME: P:\ENNIRO\CHEVRON\9~0338\VIC-9-0338.DWG | Loyout Tob: Well Search 7-01

ATTACHMENT 9

TABLE 1 - DWR Well Search Results

Chevron Service Station No. 9-0338 5500 Telegraph Avenue Oakland, California

Map ID	Well Owner	Well Loction	Well Use	State Well Number	Year Installed
1	Pacific Gas & Electric	Clifton and Claremont	Cathodic	01S04W13M80	1975
2	Pacific Rim Development	51st St and Telegraph Ave	2 MWs	01S04W14R03,02	1973
3	Oakland Shopping Center	49th St and Telegraph Ave	Test Wells	01S04W14R	1987
4	Children's Hospital	747 52nd St	Test Wells	01S04W14R	1987
5	Chevron USA	5101 Telegraph Ave	5 MWs	01S04W14R4,5,6,7	1990
6	Berkeley Farms Land Co.	Corner of 51st St and Telegraph Ave	5 MWs	01S04W14R8-12	1991
7	Children's Hospital	747 52nd St	Irrigation	01S04W14R13	1992
8	Arco Products Co.	5131 Shattuck Ave	7 MWs	01S04W14R14-20	1992

Notes

MWs = monitoring wells

Data obtained from Department of Water Resources files in Sacramento on June 25, 2001

Table 1 Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338

5500 Telegraph Avenue

Oakland California

DATE Ob. Oracle Ob. Oracle Ob. Oracle Ora		· · · · · · · · · · · · · · · · · · ·				California				
C-1A 0527799 123.27 115.93 7.34 9,100 40 25 560 1,900 35 0502299 123.27 115.72 7.55 9,700 24 18.4 626 754 66 1027799 123.27 115.84 7.43 4,740 <10 <10 <10 276 270 <100/6 021/100 123.27 115.28 5.06 5,100 17.5 <10 182 333 <50 0205/1000 123.27 115.66 6.62 11,000 110 170 480 980 <00 07/27/00 123.27 115.69 7.67 6,500 19 <10 450 360 550 07/27/00 123.27 115.69 7.67 6,500 19 <10 450 360 550 020/1000 123.27 115.69 7.67 6,500 19 <10 450 360 550 020/05/01 123.27 115.91 7.36 5,270 1.43 1.04 326 269 1550 020/05/01 123.27 115.91 7.36 5,270 1.43 1.04 326 269 1550 03/07/01 123.27 115.91 7.36 5,270 1.43 1.04 326 269 1550 03/07/01 123.27 115.15 8.12 3,300 37 27 520 490 63 08/05/01 123.27 115.15 8.12 3,300 37 27 520 490 63 08/05/01 123.27 115.19 8.28 820 1.3 8.8 160 100 47 11/12/01 123.27 114.99 8.28 820 1.3 0.50 21 7.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	WELLID/ DATE	TOC (fl)	GWE (msl)	DTW (JL)	TPH-G (ppb)			Ε (ppb)		MTBE (ppb)
0.582799 123.27 115.03 7.34 9,100 40 25 560 1,900 35	<u> </u>						· · · · · · · · · · · · · · · · · · ·			-
09/02/99		123.27	115.93	7.34	9.100	40	25 .	560	1 900	35
1012/19/9					-					
02/11/00										<100/66.6 ²
05/10/00					•					
07/27/00										
11/21/00										<250
02/05/01 123.27 115.91 7.36 5.270 1.43 1.04 326 269 15.0 05/07/01 123.27 115.90 7.37 3.000 ¹ 37 27 520 490 63 05/07/01 123.27 115.15 8.12 3.300 ¹ 3.1 3.8 160 100 47 11/12/01 123.27 116.42 6.85 5.100 1.9 <2.0 230 230 230 3.1 02/11/02 123.27 114.99 8.28 820 1.3 <0.50 21 7.7 5.76 05/13/02 123.27 114.30 8.97 1.800 <1.0 <0.50 26 8.6 7.5 05/09/02 123.27 114.33 8.94 2.100 1.7 <5.0 29 <2.0 <2.0 11/07/02 123.27 114.37 8.90 2.600 <2.0 1.0 13 54 7.9 02/04/03 123.27 115.47 7.80 640 <2.0 <2.0 4.4 6.3 7.8 05/05/05 123.27 115.84 7.43 980 <2.0 0.5 19 10 7.3 05/05/05 123.27 114.16 9.11 2.100 <0.5 <0.5 <0.5 7 4 7 11/12/05 123.27 114.16 9.11 2.100 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 05/02/25/04 123.27 114.38 8.89 330 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <					•					
05/07/01										
08/06/01					•					
11/12/01 123.27										
02/11/02										
05/13/02										
08/09/02										
11/07/02 123.27 114.37 8.90 2,600 <2.0										
02/04/03										
05/05/03 123.27 115.84 7.43 980 <2.0							and the second s			
08/28/03 ⁵ 123.27 114.16 9.11 2,100 <0.5										
11/26/03 ⁵ 123.27 113.74 9.53 490 <0.5										
02/25/04 ⁵ 123.27 116.41 6.86 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5										
05/22/04 ⁵					•		•			
08/20/04 ⁵ 123.27 114.06 9.21 700 <0.5 <0.5 17 <0.5 4 11/05/04 ⁵ 123.27 114.38 8.89 330 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 9 02/14/05 ⁵ 123.27 114.47 8.80 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5										
11/05/04 ⁵ 123.27 114.38 8.89 330 <0.5										
02/14/05 ⁵ 123.27 114.47 8.80 <50										
05/16/05 ⁵ 123.27 114.96 8.31 <50 <0.5 <0.5 <0.5 <0.5 <0.5 0.6 08/31/05 ⁵ 123.27 113.77 9.50 <50 0.5 0.5 0.8 <0.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5										
08/31/05 ⁵ 123.27 113.77 9.50 <50 0.5 0.8 <0.5 5 5 C-2A 05/27/99 125.89 119.53 6.36 <50 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5										
05/27/99 125.89 119.53 6.36 <50										
05/27/99 125.89 119.53 6.36 <50										
09/02/99 125.89 117.04 8.85 <50								-		
10/27/99 125.89 116.65 9.24 <50	05/27/99						<0.5		<0.5	44
02/11/00 125.89 117.64 8.25 <50						<0.5	<0.5	<0.5	<0.5	<2.5
05/10/00 125.89 117.46 8.43 <50										8.75/7.77 ²
07/27/00 125.89 116.34 9.55 <50 <0.50 <0.50 <0.50 <0.50 20				. 8.25	<\$0	<0.5	<0.5	<0.5	<0:5	17.8
									<0.50	3.2
9-0338.x\\$/386456 - I As o FOR	07/27/00	125.89	116.34	9.55	<50	< 0.50	<0.50	<0.50	<0.50	. 20
100440	9-0338.xls/#3864	456		•	1	f	-			As of 08/31/05

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338

Chevron Service Station #9-0: 5500 Telegraph Avenue Oakland, California

				Oakiand, (
WELL ID/	TOC	GWE	DTW	TPH-G	В	T	£	አ (ppb)	MTBE (ppb)
DATE	(0)	(msI)	(0.)	(ppb)	(ррб)	(ррв)	(pph).	(μμο)	φυρογ
C-2A (cont)									-60
11/21/00	125.8 9	116.39	9.50	<50	<0.50	<0.50	<0.50	<0.50	<50
02/05/01	125.89	116.50	9.39	<50.0	<0.500	<0.500	<0.500	<0.500	3.36
05/07/01	125.89	116.29	9.60	<\$0	<0.50	<0.50	<0.50	<0.50	<2.5
08/06/01	125.89	115.72	10.17	<50	<0.50	0.59	<0.50	1.4	12
11/12/01	125.89	115.28	10.61	<50	<0.50	<0.50	<0.50	<1.5	3.4 <2.5/<2 ³
02/11/02	125.89	117.31	8.58	<50	<0.50	<0.50	<0.50	<1.5	
05/13/02	125.89	115.76	10.13	1,100	17	83	21	99	29
08/09/02	125.89	116.76	9.13	<50	<0.50	<0.50	<0.50	<1.5	<2.5
11/07/02	125.89	114.37	11.52	<50	<0.50	<0.50	<0.50	<1.5	7.5
02/04/03	125.89	116.87	9.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/05/03	125.89	116.61	9.28	<50	<0.5	<0.5	<0.5	<1.5	<2.5
08/28/03 ⁵	125.89	114.98	10.91	<50	<0.5	<0.5	<0.5	<0.5	1
11/26/03 ⁵	125.89	114.73	11.16	<50	<0.5	<0.5	<0.5	<0.5	3
02/25/04 ⁵	125.89	117.47	8.42	<50	<0.5	<0.5	<0.5	<0.5	0.5
05/22/04 ⁵	125.89	115.68	10.21	<50	<0.5	<0.5	<0.5	<0.5	2
08/20/04 ⁵	125.89	[14.9]	10.98	<50	. <0.5	<0.5	<0.5	<0.5	<0.5
11/05/04 ⁵	125.89	115.73	10.16	<50	<0.5	<0.5	<0.5	<0.5	5
02/14/05 ⁵	125.89	116.62	9.27	<50	<0.5	<0.5	<05	<0.5	<0.5
05/16/05 ⁵	125.89	116.89	9.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/31/05 ⁵	125.89	114.96	10.93	<50	0.8	1	<0.5	5	2
C-4									
05/27/99	125.40	115.34	10.06	<50	<0.5	<0.5	<0.5	<0.5	44
09/02/99	125.40	114.89	10.51	<50	<0.5	<0.5	<0.5	<0.5	3.1
10/27/99	125.40	115.03	10.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ²
02/11/00	125.40	114.48	10.92	<50	<0.5	<0.5	<0,5	<0.5	2.79
05/10/00	125,40	116.28	9.12	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/27/00	125.40	113.50	11.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5
E1/21/00	125.40	113.76	11.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/05/01	125.40	115.21	10.19	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/07/01	125.40	114.45	10.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5
08/06/01	125.40	113.75	11.65	<50	<0.50	0.52	<0.50	1.1	3.2
11/12/01	125.40	113.69	11.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/024	125.40	114.45	10.95	<50	<0.50	<0.50	<0.50	<1.5	72/62 ³
9-0338.xls/#386					2				As of 08/31/05

Table 1 Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338

5500 Telegraph Avenue Oakland, California

				Uzkiand, U	Jamoinia Biologia	r	es e	X	MTBE
WELL TD/ DATE	TOC (6)	GWE (msl)	DTW (f):)	(ppb)	в (ррб)	(ppb)	(pph)	(ppb)	(ppb)
C-4 (cont)									-
05/13/02	125.40	113.64	11.76	<50	<0.50	<0.50	<0.50	<1.5	21
08/09/02	125.40	114.50	10.90	<50	<0.50	<0.50	<0.50	<1.5	4.9
11/07/02	125.40	113.72	11.68	<50	<0.50	⁻ <0.50	<0.50	<1.5	<2.5
02/04/03	125.40	114.44	10.96	<50	<0.50	<0.50	⁻ <0.50	<1.5	81
05/05/03	125.40	114.25	11.15	<50	<0.5	<0.5	<0.5	<1.5	120
08/28/03 ⁵	125.40	114.19	11.21	<50	<0.5	<0.5	<0.5	<0.5	_<0.5
11/26/035	125.40	113.40	12.00	<50	<0.5	<0.5	<0.5	<05	≤0.5
02/25/045	125.40	114.51	10.89	<50	<0.5	<0.5	<0.5	₹0.5	16 -
05/22/04 ⁵	125.40	[14.29	11.41	<50	<0.5	<0.5	<0.5	<0.5	1
08/20/04 ⁵	125.40	113.36	12.04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/05/045	125.40	115.08	10.32	<50	<0.5	<0.5	<0.5	<0.5	0.7
02/14/055	125.40	114.69	10.71	<50	<0.5	<0.5	<0.5	<0.5	2
05/16/05 ⁵	125.40	115.46	9.94	<50	<0.5	<0.5	<0.5	<0.5	1
08/31/05 ⁵	125.40	114.59	10.81	<50	0.7	1	<0.5	. 7	0.6
							•		
C-5			2.61	2,800	350	73	32	280	2,200/2,500 ²
05/27/99	124.15	117.54	6.61	2,800 570 · ·	9.0	. <2.5	<2.5 ·	<2.5	890
09/02/99	124.15	116.27	7.88	543	4.22	<0.5	3.28	<0.5	845/1,080 ²
10/27/99	124.15	116.90	7.25	488	0.56	<0.5	1.45	<0.5	565
02/11/00	124.15	117.41	6.74	488 140 ¹	3.6	1.2	0.53	2.0	380
05/10/00	124.15	118.36	5.79	260 ³		1.2	0.93	2.8	460
07/27/00	124.15	116.92	7.23		1.4		<0.50	<0.50	350
11/21/00	124.15	117.47	6.68	1301	0.74	0.73		<0.30 <1,00	197
02/05/01	124.15	117.74	6.41	111	<1.00	<1.00 .	<1.00		210
05/07/01	124.15	117.91	6.24	1001 .	2.1	1.0	<0.50	0.80	360
08/06/01	124.15	116.74	7.41	94 ¹ .	0.84	1.2	0.54	1.5	280
11/12/01	124.15	116.82	7.33	58	<0.50	<0.50	<0.50	<1.5	
02/11/02	124.15	117.90	6.25	<50	<0.50	<0.50	<0.50	<1.5	150/1403
05/13/02	124.15	116.13	8.02	79	7.7	1.2	2.6	5.\$	180
08/09/02	124.15	113.13	11.02	<50	<0.50	<0.50	<0.50	<1.5	220
11/07/02	124.15	114.51	9.64	<50	<0.50	<0.50	<0.50	<1.5	300
02/04/03	124.15	117.07	· 7.08	2,300	210	4.4	250	53	490
05/05/03	124.15	116.63	7.52	350	18	1.7	22	io	620
08/28/035	124.15	115.25	8.90	59	3	<0.5	4	7	470
9-0338.xis/#386	456		•	-	3				As of 08/31/05

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338

5500 Telegraph Avenue Oakland, California

	<u> </u>				California			X	MITBE
WELL ID/ DATE	TOC (ft)	GWE (msl)	DTW: (fl.)	TPH-G (pph)	B: (pp6)	T (ppb)	E, (pph)	(բրհ)	(пръ)
C-5 (cont)									
11/26/03 ⁵	124.15	114.49	9.66	190	14	0.5	15	20	640
02/25/04 ⁵	124.15	116,54	7.61	<50	0.9	<0.5	4	<0.5	140
05/22/04 ⁵	124.15	115.93	8.22	640	90	3	56	73	860
08/20/04 ⁵	124.15	114.50	9.65	<50	<0.5	<0.5	<0.5	<0.5	340
11/05/04 ⁵	124.15	115.51	8.64	1,400	84	3	120	160	780
02/14/05 ⁵	124.15	116.62	7.53	<50	<0.5	<0.5	<0.5	<0.5	28
05/16/05 ⁵	124.15	115.89	8.26	<30	<0.5	<0.5	<0.5	<0.5	190
08/31/05 ⁵	124.15	114.81	9.34	240	13	<0.5	13	14	710
18/31/85	124,13	114.01	J	W-10					
TRIP BLANK									
05/27/99				<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/99		***	-	<50 ·	<0.5	<0.5	<0.5	<0.5	<2.5
10/27/99	~~			<50	<0.5	<0.5	<0.5	<0.5	<5.0
02/11/00				<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/10/00				<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/27/00		-		<50	<0.50	<0.50	<0.50	<0.50	<2.5
11/21/00	w .		**	<50	< 0.50	<0.50	<0.50	<0.50	<2.5
02/05/01			·	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/07/01			••	<50	<0.50	< 0.50	<0.50	< 0.50	<2.5
08/06/01	**	**		<50	< 0.50	<0.50	<0.50	<0.50	<2.5
QA									
11/12/01	••	••		<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/02	**	••		<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/13/02	••			<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/02		••		<50	<0.50	< 0.50	<0.50	<1.5	<2.5
11/07/02	-		_	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/04/03	••			<50	<0.50	<0.50	<0.50	<1.5	<2.5
05/05/03		***		<50	<0.5	<0.5	<0.5	<1.5	<2.5
08/28/03 ⁵	24		_	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/03 ⁵				<50	<0.5	< 0.5	<0.5	<0.5	<0.5
02/25/04 ⁵				<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/22/04 ⁵		••	_	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/20/04 ⁵			_	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/05/04 ⁵				<50	<0.5	<0.5	<0.5	< 0.5	<0.5
9-0338.xls/#386					4				As of 08/31/05

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-0338

5500 Telegraph Avenue

				and, California			· , , , , , , , , , , , , , , , , , , ,
WELL ID	DATE	ETHANOL	TBA	MTBE	DIPE	ETBE	TAME
		(ppb)	(pp5)	(npb)	(ppb)	(ррб)	(ppb)
C-1A	02/11/02		<100	4	<2	<2	<2
	08/28/03	<50		7			**
	11/26/03	<50		11	-	**	
	02/25/04	<50	-	3	•		
	05/22/04	<50	_	6			••
	08/20/04	<50	<5	4	<0.5	<0.5	<0.5
	11/05/04	<50	<5	9	<0.5	<0.5	<0.5 <0. 5
	02/14/05	<50	<5	0.9	<0.5	<0.5	
	05/16/05	<50	<5	0.6	<0.5	<0.5	<0.5
	08/31/05	<50	<5	5	<0.5	<0.5	<0.5
C-2A	02/11/02	-	<100	<2	<2	<2	<2
	08/28/03	<50	**	1			 .
	11/26/03	<50		. 3		-	4414
	02/25/04.	<50		0.5			
	05/22/04	<50		2			~~
	08/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	11/05/04	<50	<5	5	<0.5	<0.5	<0.5
	02/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	05/16/05	<50	<5	<0.5	.<0.5	<0.5	<0.5
	08/31/05	<50	<5	2	<0.5	<0.5	<0.5
					_		_
C-4	02/11/02		<100	62	<2	<2	<2
	08/28/03	<50		<0.5	•••	**	
	11/26/03	<50	••	<0.5	~	**	
	02/25/04	<50	-	16	•	•-	
	05/22/04	<50		1	444		***
	08/20/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	11/05/04	<50	<5	0.7	<0.5	<0.5	<0.5
	02/14/05	<50	<	2	<0.5	<0.5	<0.5
	05/16/05	<50	<5	1	<0.5	<0.5	<0.5
	08/31/05	<50	<5	0.6	<0.5	· <0.5	<0.5

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-0338

5500 Telegraph Avenue

Oakland, California

				anu, Camonna			
WELL 1D	DATE	ETHANOL (ppb)	ТВА (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
C-5	02/11/02		<100	140	<2	<2	<2
	08/28/03	<50		470			-
	11/26/03	<50		640		-	
	02/25/04	<50		140		ee	
	05/22/04	<50		860			• •
	08/20/04	<50	<5	340	<0.5	<0.5	2
	11/05/04	<50	23	780	<0.5	<0.5	5
	02/14/05	<50	<5	28	<0.5	<0.5	<0.5
	05/16/05	<50	10	190	<0.5	<0.5	1
	08/31/05	<50	38	710	<0.5	<0,5	5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-0338 5500 Telegraph Avenue Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Groundwater Analytical Results

Chevron Service Station #9-0338

5500 Telegraph Avenue Oakland, California

WELL ID	BATE	Cadmium	Chromium	Lead	Nickel	Zinc	TOG	HVQCs
C-4	02/11/02	<10.0	80.5	16.7	126	143	<320	<0.20-<0.50

EXPLANATIONS:

TOG = Total Oil and Grease

HVOCs = Halogenated Volatile Oraganic Compounds

(ppb) = Parts per billion

Note: All HVOCs were not detected (ND) unless otherwise noted.

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0338

5500 Telegraph Avenue

Oakland	f (Caf	iforn	îа

					Camoina			- CC+	
WELL ID/	тос	GWE	DTW	TPH-G	B fantil	T (ppb)	E (ont)	X. (nob)	MTBE Coobi
DATE	(<i>14)</i>	energy (msipercone	reneral (H) eneral en	ίμας	· · · · · · · · · · · · · · · · · · ·				-
QA (cont)						40.5	-0.6	-0.5	<0.5
02/14/05 ⁵	**			<50	<0.5	<0.5 -	<0.5	\0. 3	
05/16/05 ⁵		-	••	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/31/05 ⁵	-	<u></u>	-	<50	<0.5	- <0.5	<0.5	<0.5	<0.5
				-					•
						-			

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-0338 5500 Telegraph Avenue Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tertiary butyl other

(fL) = Feet

B = Benzene

(ppb) = Parts per billion

GWE = Groundwater Elevation

T = Toluene

-- Not Messured/Not Analyzed
QA = Quality Assurance/Trip Blank

(msl) = Mean sca level

E = Ethylbenzene

DTW = Depth to Water

X = Xylenes

Laboratory report indicates gasoline C6-C12.

- ² Confirmation run.
- MTBE by EPA Method 8260.
- Total Petroleum Hydrocarbons as Diesel (TPH-D) was less than the reporting limit.
- 5 BTEX and MTBE by EPA Method 8260.

	ation of b	~பாழ்.		•	1 🕶			Project No.: 7 Client: C	hevron		Date: Station	11/13/89 1#0338	Boring C-	
		(S	ee Plate	2)					500 Tele					-1
		(City: C	akland,		nia		Sheet	
									I.S.Y.		Driller:	Bayland	of	2
								Casing Installati	on data:					
illing r		Hollow-S 8-Inch	Stem Au	ger				Top of Box Elev	vation:	123.88		Datum: MS	SL.	
7/6 0/0		B-IIICII		Ι	Т		Ŕ		24.5	10.	75			
٦Ê	F 0	0 8	a ži	€	Sample	7 F	\$5 \$2		11:15	09:				
0 6 6	Slows/ft. of Pressure (ps)	Type of Sample	Semple Number	Oepth (ft.)	8	Well Detail	Soil Group Symbol (USCS)	Date	11-13-89		21-89	<u> </u>		
	ă.				 		<u> </u>	PAVEME	NTOEC		cription			
								LVAEIME	NI SEC	11011-2	2.0 lect			
					$\vdash \vdash$		A STATE					٠.		
				1										
				2				OLAV	h CAND	VCIV ·	ioni dar	k brown (10	VD 2/2\	
	<u></u>			3			VII	damp me	dium et	iff: 15%	coarse	sand; mott	led light	!
	<u> </u>			٦			1///	brown: br	ick and	wood fr	agment	s to 3.0 fee	t; low	
0	100	S&H		4	5			plasticity;	open v	oids; no	chemic	cal odor.		
	150	push	C-1	1										
	200		5.0	5										
							Y//2							
	ļ	ļ		6			1/11	OII 7"	CAND /	(8.41.)	ork volle	ow brown (1	0VD 4/6	2) •
		ļ		}				15% very			ark yenc	A DIOMII (1	V174/0	<i>1</i>
	<u> </u>	-		7				13% Very	IIIIC Sai	10.				-
				8										
	-			1										
				9										
0	100	S&H												
	250	push	C-1 10.5	10			4/1	CLAVEV	GDAVE	i (GC)	oray (7	7.5YR 6/0), (dense, m	nai
	250	}	10.5	11			1//	75% and	ular oray	vel: san	d stringe	ers; pockets	of slit -	2
	 -	1		┨''			19/9/9	mm; no d	hemica	l odor.		<u> </u>		
		 		12			1././			<u></u>				
	 	 		1			1//							
	Ī			13			10/0/0							
			ļ	1										
		0011	 	14			1///	COLOR	CHANG	E to dar	k valla	v brown (10	YR 4/6).	n/
0	9	S&H	C-1	15			1././.	chemical		L to dai	v AGIION	A DI DANII (10	11 (4/0)1	410
	14	 	15.5	13			1//	- Citemical						
	 '''	 	13.5	16			1///	 						
	1	1					1././							
				17			1/1]						
	ļ			1			1././							
	<u> </u>	ļ		18			1//	long are:	al at 10	O foot:	no obon	nical odor.		
	 	 	 	 19		1	1/31	icos yidv	CI CL 10.	.0 1061, 1	IO OLICH			
lemark:	<u> </u>	<u> </u>	<u> </u>	119	<u>.l</u>	L	V 1:1:1					·		
	- 1													
							Log of							OFILE

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308 NUMBER 7263

REVIEWED BY HOLDEG

DATE 11/89

REVISED DATE

REVISED DATE

Gld loca	tion of bo	vino:			<i>;</i>		Project No.: 7263 Date:	11/13/89	Boring No:
1610 1000		лицу.					Client: Chevron Service Station	n #0338	C-1
		(9)	ee Plate	2)			Location: 5500 Telegraph Avenue	:	
		(3)	oo mato	-/			City: Oakland, California		Sheet 2
							Logged by: R.S.Y. Driller:	Bayland	of 2
							Casing installation data:		
dina n	nethod:	Hallow-S	Stem Au	ger			<u> </u>		
ole diar		8-Inch	JUNI 710	<u> </u>			Top of Box Elevation:	Datum:	
DIB OID		0-111011	-,	ΤΤ		Я	Water Level		ļ
	Blows/ft. or Pressure (ps/)	76.⊈	.e. 15	Cap (ft.)	- N	Soil Group Symbol (USCS)	Time		
Q 🛱	\$ 0 g	Type of Semple	Sample	8	Sample	Deteil Sil Gro Di tool (C)	Date		<u> </u>
	m 2	1- W	\	l°	"	8	Description		
0	7	S&H							
	9		C-1	20				1 1007	3.4(6)
	14		20.5			[4:14.4	SILTY SAND (SM) - dark yellow	brown (10Y)	7 4/b),
				21 [[[.1:1:1	medium dense, very moist; 80%	very tine sai	na; 20% Siit;
			ļ	1 [no chemical odor.		
	 			22		11:1:1:1:	:		
				1		11:1:1:1			
	 	<u> </u>		23		[[:[:]			
,	 	†		1		[[:::]			
		 		24		11:11		(= 5) (F) 0 (O)	
-0	4	S&H	1	1 1	Ϋ́	[1:[.]:]	COLOR CHANGE to light gray	(1.5YH 6/U),	saturated;
	7	1	C-1	25			organic fragments; no chemica	ıı odor.	
	10	 	25.5	1					
	1		1	26		[{:[,1:}]	:		
	 			1 1					
	 	 	1	27	\neg				
	4		-	1 1					w
			1	28		11:1:1:1			(D. 414) None
	 	-		7		ز ارا: ا	SANDY CLAY (CL) - dark yello	w brown (10)	(H 4/4), Very
		 	 	29		7//	stiff, moist; 10% well rounded g	jravels; 30%	tine sand; no
0	4	S&H	1	_			chemical odor.		
	11	-	C-1	30					
	20	1	30.5	7			<u> </u>		
	 		- 	31					
····	-	1		7					
*	10	, S&H		32		- Y//	same as above; no chemical of	odor.	
	19					- Y//			
	23	 	1	33			Bottom of sample at 33.0 feet.		
	1		1				Bottom of boring at 33.0 feet.		
· · · · · · · · · · · · · · · · · · ·	+	1		34					
		1							
	1	-	 	35					
	- 	1	1	7					
	-		1	36					
	+	1	_	7					
<u> </u>	 		1	37					
	- -			7					
 	- 		 -	38					
		 		7					
 		+		39				<u> </u>	
Remer	ks:			100	, <u>, , , , , , , , , , , , , , , , </u>		:		
	,								
P28 192	63 cozi					Log	f Boring		BORING
Tax Iss	C D G	eoStrate	gies in	Ç.		9	·		
[[-]	S II"	11 mg/	- 42· ····	•			<u> </u>		. C-
200							; ;		
			PP 421	00.000	arca			REVISED DATE	PEVISED DATE
7263	ABER		REVIEW) ~ \$ 2 (* en ea ea	(267		11/89		
-403			UW.	الديا	INCO				

PROJECT: Chevron SS #9-0338 LOCATION: \$500 Telegraph Avenus, Oakland, CA. GR PROJECT NO. 344656.02 SURFACE ELEVATION: \$232771. MSZ. DATE STARTED: 05/12/99 Nu. (If. bagb: DATE TIME:		(Get	tier-	Ry	en,	Inc.		Log of Boring C	-1A
DATE STARTED: 05/12/99 NL (It. bgs): DATE: TIME: TIME: TIME: TIME: DATE of 12/99 NL (It. bgs): DATE of 12/99 TIME: DATE of 12/99 TI	PRO	JECT:	Che	vron SS	#9-	0338			LOCATION: 5500 Telegraph Avenue, Oa	akland, CA.
DATE STARTED: 05/12/99 NL (ft. bgs): DATE: TIME: 17:20 TIME: 17:20 TIME: 17:20 TIME: 17:20 TOTAL DEPTH: 19.5 Feet ORILLING COMPANY: Bay Area Exploration Inc. GEOLOGIC DESCRIPTION Not sampled. Hell C-IA replaced well C-I. Hell C-I was drilled on the hole. Not sampled in the hole. Not sampled in the hole. S-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	GR F	PROJEC	CT NO	.: 34	6456.	02			SURFACE ELEVATION: 123.27ft. MSL	, , , , , , , , , , , , , , , , , , ,
DAYE FINISHED: 05/12/99 BRILLING METHOD: 8 in. Hollow Stem Auger ORILLING METHOD: 5 in. Hollow Stem Auger ORIGINAL METHOD: 5 in. Hollow Stem Auger ORIGI							······		WL (ft. bgs): DATE: TIM	Æ:
BRILLING COMPANY: Bay Area Exploration Inc. GEOLOGIST: Barbara Sieminski HELL DIAGRAM For the boring was backfilled with benotine to 315 feet bgs, then well C-14 was installed in the hole.										IE: <i>17:20</i>
GEOLOGIST: Barbare Steminski GEOLOGIST: Barbare Steminski GEOLOGIST: Barbare Steminski HELL DIAGRAM HELL DIAGR		_				llow :	Stem A	uger		
# LIM 3 Berry 100 Co. 1 1/4 Sept	_								GEOLOGIST: Barbara Sieminski	
Not sampled. Hell C-1A replaced well C-1 Mell C-	·		*			10			OLOGIC DESCRIPTION	WELL DIAGRAM
20— 25— 30— Bottom of boring at 31.0 feet.	1 1 1				_			was drilled out to with bentonite to installed in the h	31 feet. The boring was backfilled 19.5 feet bgs, then well C-1A was ble.	
20— 25— 30— Bottom of boring at 31.0 feet.	10				_				ne stottes PVC. (0.02	Pues E./
25— 25— 30— Bottom of boring at 31.0 feet.	15				-					
Bottom of boring at 31.0 feet.	20-				_					And place and see that is a second seed of the second second seed of the second seed of the second seed of the second second seed of the second secon
Bottom of boring at 31.0 feet.	-				-					with the section of t
]25]] -	30-							Bottom of boring	at 31.0 feet.	
	ا ۱					1				_

		(Se	e Plate 2	<u>2</u>)			Location: 5500 Telegraph Avenue	2.
		,~					City: Oakiario, California	1
							Logged by: R.S.Y. Driller: Bayland of Casing installation data:	<u>~</u>
Olica ~	nethod:	Hollow-S	tem Aug	er				
de diar		8-inch	terr rug				Top of Box Elevation: 124,92 Datum: MSL	
				7		Soil Group Symbol (USCS)	Water Level 23.0 10.75 Time 14:10 10:35	
2 j	4 % 5 %	Type of Semple	Semple	Depth (ft.) Sample	Well	8 <u>8</u>	Time 14:10 10:35 Date 11-13-89 11-21-89	
<u>σ</u> ጀ	Blows/ft. or Pressure (psi)	£8	82	Z X		8 5	Description	
							PAVEMENT SECTION - 0.5 feet	_
				-	-	2178 A.		
	<u> </u>			1	1			
]			
				2	4			
				3	-			,,
		 		\ \ \—	┥ .			
	 	 		4	1		SILT (ML) - very dark grayish brown (10 YR 3/0), me	<u>50</u>
0	100	S&H]		stiff, dry; trace very fine sand; rootiets; open volus,	110
	150	push	C-2	5			chemical odor.	
·····	250		5.5		_			
			ļ	6	-			
	ļ	ļ	 	7				
	 	 		' -	-	1111		
	 -	 		8]	1111		
	 				_]			-
				9	4			
0	500	S&H	C-2	10	-	1	GRAVELLY CLAY (CL) - dark yellow brown (10YR	<u> 1/6</u>
	20 24	_	10.5	┤'` ॗ	┪		hard, moist; 35% angular gravel; 10% tine sand; no	<u> </u>
	24		10.0	11	7		chemical odor.	
				12			<u> </u>	
			<u> </u>	-	_		<u> </u>	
			 	13 -		1//		
		-	 	14	_	1//		
0	9	S&H	 				A section of the sect	
	18	+	C-2	15			same as above; no chemical odor.	_
	20		15.5		L	1//	1	
			<u> </u>	16				
				17				
<u> </u>	+			┤"┢	_			
 	+-		 	18		1/1		
						1		
				19		/6/	<u>/</u>	
Rema	rks:							,,,,,
						Log	of Boring	во

-08 нимвея 7263

DATE 11/89

REVISED DATE

REVISED DATE

REVIEWED BY ROICEG

11/89

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7263

CMP CEU 1262

		Get	tier-	Rya	an,	Inc.		Lo	g of Boring	g C-2A
PRO	JECT:	Che	vron SS	#9-C	338			LOCATION: 550	10 Telegraph Avend	ue, Oakland, CA.
			.: 346		72			***************************************	TION: 125.89ft. M	(SL
			: 05/12	· · · · · · · · · · · · · · · · · · ·			······	WL (ft. bgs):	DATE:	TIME:
): 05/1		lla			WL (ft. bgs); 9.4	DATE: 05/12/99	TIME: 17:20
			OD: 8				tion Inc.	TOTAL DEPTH: GEOLOGIST: BE		
		1		, , , , , , , , , , , , , , , , , , ,		<i>xp.</i> 0, g.	non inc.	ococooter. Be	n Dar a Orchinion	
DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		OLOGIC DESCRIPTION		WELL DIAGRAM
5	,						Not sampled. We was drilled out to with bentonite to installed in the ho	it C-2A replaced well 31 feet. The boring 2G feet bgs, then w ble.	C-2. Well C-2 was backfilled ell C-2A was	Scheduse 40
10-							*			2" machine statted PVC (0.02 inch)
15										
20-									"	The state of the s
25-				1						The state of the s
-									1.18% ************************************	<u> </u>
35—							Bottom of boring	at 31.0 feet.		

; ; ; ; ; ;

iold loce	ation of b	onng:		• •				Project No.: Client:	Chevron S	Date: Service Statio	11/13/89 n #0338	C-	No:
		194	ee Plate	2)						graph Avenue			
		,50	, , , , , o. o	-,				City:	Oakland,	California	_	Sheet	
								Logged by:		Driller:	Bayland	of	2
								Casing installa			<u> </u>		
rilling n ole diar	nethod; meter:	Hollow-S 8-Inch	item Au	ger			· 	Top of Box Ele	evation: 1	25.64	Datum: MS	SL.	
010 4121	· · · · · · · · · · · · · · · · · · ·	1		1			দূ	Water Level	23.5	11.28		<u> </u>	
_	ق ہے	2 8	9 9	£	, e	= 5	§ ₩ .	Time	16:00	09:57			
9 E	Surger Surger	Type of Sample	Sample Number	Depth (ft.)	Semple	Well	⊕ 20	Date	11-13-89				
_	Blows/ft. or Pressure (ps)	۱ ۲۰۰۰	W Z	ا م	"		Soil Group Symbol (USCS)			Description			
							1	PAVEM	ENT SEC	110N - 2.5 feet			
				-	-		35.740 Sec.				•,		
	-	 		1									_
		 		2						, <u></u> ,			
	 	 		3	-				· · · · · · · · · · · · · · · · · · ·				
<u> </u>		 											
	 -			4			1111	SILT (M	L) - dark b	rown (10YR 3	3/3), stiff, dar	np; trace	e fir
Ō	100	S&H		1				sand; ro	otlets; no	chemical odd	or.		
	100	push	C-3	5									
	150	1	5.5	1									
	 -	 		6									
	 	 	,	1									
	 	1		7									
		1]									
				8			1//	CMAVE.	IVOLAN	(CI) dorber	ellow brown	(10YP 4	1/61
	ļ <u>.</u>		ļ	_ إ			1///	GRAVE	ELLY ULA	/ (CL) - dark y 0-30% fine ar	ander araval	: Oxidatio	00
	<u> </u>	 		9			1///	very str	n, moist; 2 no chemic	el odor	guiai giavoi	, oxidadi	~!}
0	6	S&H		┨╻				stains, i	IO CHEIMIC	ai vuvi.			
	12	<u> </u>	C-3] 10	13-		1///	1					<u> </u>
	18	<u> </u>	10.5	4									
	<u> </u>	-		11		 		1					<u>.</u>
	 	1		12	-	{						,	
•••				13				1					
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		S&H	ļ	14		}	10/0/	CLAYE	Y GRAVE	L (GC) - dark	vellow brown	1 (10YR	3/4
0	4	SAH	C-3	15		1	1/1/	medium	dense, s	aturated: 75%	angular to	subroun	d
	6	 	15.5	վ '3	B -	1	1///	gravel	25% clav	oxidation sta	ins; no chen	nical odd	or.
	10		15.5	16		1	1///	3101011			<u></u>		
	 	-		۱۳	ˈ	1		1					
	1.	1		_ 17	·]	10/9/	•					
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	 	+	<u> </u>	18	'	4		2					
		 	 	15	, 	1	19/1/	/					
			4	1 1 4	<i>,</i> ,	1	1.7.7.	~`L		-1-/-			

JOB NUMBER 7263

GeoStrategies Inc.

HEVIEWED BY HOUSE CHAPTER 1262

DATE 11/89

REVISED DATE

REVISED DATE

	No.	ring:	 					Project No.:	7263			11/13/89	Boring No:
id loce	tion of bo	any.			•			Client:	Chevror	Serv	ic. d. atic	n #0338	C-3
	•	186	e Plate	2)				Location:	5500 Te	egrar	h Avenue	3	Sheet 2
		,00	JO 1 10.00	-,					Oakland	, Cali	fornia	Davilond	of 2
							,	Logged by:	R.S.Y.		Driller:	Bayland	
								Casing install	ation date:				
ling r	nethod:	Hollow-S	tem Au	ger				Top of Box E	evelion'			Datum:	
e dia		3-Inch			,			Water Level	T T	-	<u></u>		
				[]			88	Time	<u> </u>	 			
a E	£ 5	Type of Sample	Sampte Number	Depth (P.)	Sample	Well Detail	5 5 5 5	Date	 				
0 g	Blows/ft. or Pressure (psi)	15 SS -21	8 2	ă	ø		Soil Group Symbol (USCS)	Date			Descriptio	n	
0	3	S&H											
	6		C-3	20			V///	CLAVE	VEAND	(SC)	- dark ve	llow brown (1	IOYR 4/6),
	13		20,5				1///	4	- 4	SINNE	maiet 70°	% verv tine i	O IIIIO SAIIU,
				21			17/7	30%	ov. utav	staini	na aroun	g Diack Orga	nic fragments;
			<u> </u>	ا مرا			1.7.7	trace re	ounded (ravel	; no chen	nical odor.	
	ļ	ļ 	 	22	-		1///					·	·
	↓	 		23			1.//				_,		
	 	 	 	┧~~				1					
	 	 	 	24		호	1			<u> </u>			
0	7	S&H	 	┤¯∵		17	$\{\cdot,\cdot,\cdot,\cdot\}$		<u> </u>	1	201	uallow brow	n (10YR 3/4)
U	9		C-3	25]		GRAV	ELLY SA	MD (or) - Dark	y madium to	n (10YR 3/4), coarse sand;
	9	 	25.5	7				mediu	n dense	satu	rateo; 70	69/ fines: no	chemical odor.
	 		1	26].		25-309	% well ro	unae	J graver,	3 /8 11100, 110	
]		:'		 -	· · ·		
				<u>]</u> 27		1		·		 			
				۱.,		4		ctiffor	at 27.5 fe	et			
		<u> </u>	<u> </u>	_] 28	 	-	1//	/		ī			
		<u> </u>	 	٦,,	<u> </u>	4	Y//	SAND	Y CLAY	with (SRAVEL	(CL) - dark y	ellow brown
				_ 29		4		/+nVE	A/ALVE	arv stif	f. moist: 3	35-40% meu	um to coarse
0	7	S&H	C-3	┧30		1		sand;	15% gra	vel; r	o chemic	al odor.	
	13		30.5			-							
	17		30.3	31		7	1//					<u></u>	
	7	S&H		``		┪	Y//						
	10		+	32	2	7				<u> </u>			
	15		 	_		7		/		1.12 -	100 E 100		· · · · · · · · · · · · · · · · · · ·
				_ 3:	3 🗀]	[]	Botto	m of san	ipie a	t 32.5 fee 32.5 feet	·	
								Вопо	m or nor	ing at	02.5 1000		
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Rema	arka:												•
- 101111	1 Vert						· .						BORING
 							Log	of Boring					DOM HIGO
		ieoStrat	tegies la	nc.									C-
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										DATE		REVISED DATE	REVISED DAT
	JMBER			WED BY						11/89	l		
7263	3		auf	, CEC	120	<u> </u>				7 7 7 7	<u></u>		

	G	ett	ler-R	yan, Inc	•	Log of	f Boring C-4
			CC #	00338		LOCATION: 5500 Teleg	raph Avenue, Oakland, CA.
			ron SS #			SURFACE ELEVATION:	
			34645 05/12/5				05/12/99 TIME: 10:20
	E STAF						05/12/99 TIME: 17:15
	E FINI			Hollow Stem A	Auger	TOTAL DEPTH: 21.5 Fe	et
				y Area Explora		GEOLOGIST: Barbara S	
feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG COL CLASS	GE	COLOGIC DESCRIPTION	WELL DIAGRAM
ᅴ	_&_			3,	PAVEMENT - Co	ncrete over baserock	THE PVC AND A COMMENT OF THE PVC AND A COMMENT
5-	o	6	C4-6	CL	SANDY CLAY (C moist, medium st 30% fine to coa	L) – very dark brown (IOYR 3 iff, low plasticity; 40% clay, 3 rse sand, trace fine gravel.	2/2). 10% silt,
- 01 -	0	19	C4-11	GC/	6/8), moist, med	L (GC/CL) — brownish yellow fium dense, 50% subrounded f 40% clay, 10% fine to coarse	(10YR ine stated PVC (0.02 mcn) (10 A Saud
15-	0	14	C4-16	GC/	CLAYEY GRAVE brown (IQYR 5, subrounded fin to coarse sand	il WITH SAND (GC/SC) — yell (4), saturated, medium dense; e lo coarse gravel, 30% clay,	
20-		18	C4-21	C1	Sitti Gtal V	CL-ML) - pale olive (5Y 6/3) (10YR 6/8), moist, very stiff clay, 40% silt, 10% fine sand.	
	4				Battom of bori	ng at 21.5 feet.	-
25-	+				(x = converte blows/ft.)	d to equivalent standard per	netration
	1						
30 [.]	-						
	1						
35	1						Page

	(Get	tier-F	Ryan, Inc		Log of Boring C-5
PRO.	JECT:	Che	vron SS a	#9-0338	LC	CATION: 5500 Telegraph Avenue, Oakland, CA.
			.: 3464		SU	IRFACE ELEVATION: 124.15ft. MSL
		RTED		····	WL	(ft. bgs): 13.0 DATE: 05/12/99 TIME: 11:20
		~~~~	: 05/12			(ft. bgs): 8.6 DATE: 05/12/99 TIME: 17:15
				. Hollow Stem A	<del></del>	OTAL DEPTH: 21.5 Feet
	·			y Area Explora		OLOGIST: Barbara Sieminski
-					1	
DEPTH feet	PID (ppm)	BLOMS/FT. *	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG SOIL CLASS	GEOLO	GIC DESCRIPTION
		-		<u> </u>	PAVEMENT - Concre	te over baserock
5-				CL.	CLAY (CL) - black ( low to medium plastic	te over baserock  10YR 2/1), moist, medium stiff, ity; 90% clay, 10% fine sand.
	0	7	C5-6	CL	stiff, low plasticity; 6 sand, trace fine grav	brown (10YR 5/3), moist, medium 00% clay, 40% fine to coarse vel.
10-	11	fi fi	C5-11	CL/60	5/4) mottled greenis	/GC) - yellowish brown (IOYR h gray (5GY 5/I), damp, stiff, ay, 40% subrounded fine to ne to coarse sand.
15-	o	18	C5-18	GC/SI	CLAYEY GRAVEL WIT	
20-	0	21	C5-21	CL-M	SILTY CLAY (CL-ME) brownish yellow (10)	.) - pale olive (5Y 6/3) mottled R 8/6), moist, very stiff, low 40% silt, 10% fine sand.
25-					Bottom of boring at	
30-						
35-	\$10 pt v4		346456	202		Page I of I

	Ge	ettler	-Rya	an, Inc.	Log of Boring HA	<b>√</b> −1				
PRO	DJECT: C	Chevron S	iervice .	Station No. 9-0338	LOCATION: 5500 Telegraph Avenue, Oakland, California					
	JECT NO.		338H.4	COI	SURFACE ELEVATION:					
	TE START					: 07:52				
	E FINISH				WL (ft. bgs): DATE: TIME					
	LLING ME			Hand Auger	TOTAL DEPTH: 18 feet	<del></del>				
DUI		MEANT:	Gettler	-kyan	GEOLOGIST: Geoffrey Risse	T				
DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG	SOIL CLASS	GEOL	OGIC DESCRIPTION	REMARKS				
				Asphalt - 6 Inches thick.		Boring backfilled				
				Base rock - 1.5 feet thick.		with pea gravel to 6 inch below ground surface, then finish to				
3-			CL	CLAY (CL) - black (GLEY 2.5 10% fine sand,	i/N), moist, low plasticity; 80% clay, 10% silt.	surface grade with concrete.				
6- -	To the state of th			80% clay, 20% fine send.  CLAY WITH GRAVEL (CL) - lic	brown (7.5YR 6/4), dry, low plasticity; tht brown (7.5YR 6/4), dry; 80% clay, 15%	_				
9-				fine gravel, 5% fine sand.	(DO(A)					
12-	HA1-11.5			gravel.	(R 6/4), molst; 80% clay, 10% slit, 10% fine	-				
15-				Ā		_				
18-	HA1-W			Bottom of boring at 18 feet bg	S	Grab groundwater — sample HAI-W, taken at 18 feet bgs.				
21-						-				

	Ge	ttler	-Rya	in, Inc.	Log of Boring HA-2		
PROJ	ECT: Ch	evron S	ervice S	Station No. 9-0338	LOCATION: 5500 Telegraph Avenue, Oak	land, California	
	ECT NO. :				SURFACE ELEVATION:		
	STARTE				WL (ft. bgs): 13.0 DATE: 08/12/02 TIME: 14:20		
	FINISH			<u></u>	WL (ft. bgs): DATE: TIME:		
DRIL.	LING MET	HOD:	3 1/2 in.	Hand Auger	TOTAL DEPTH: 13.5 feet		
	LING COM				GEOLOGIST: Geoffrey Risse		
ОЕРТН (feet)	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG	SOIL CLASS	(	SEOLOGIC DESCRIPTION	REMARKS	
				Asphalt - 6 inches thick.		Boring backfilled	
_				Base rock - 2.5 feet thic	k.	with pea gravel to 6 inch below ground surface, then finish to sw face grade with concrete.	
3-			CL	CLAY (CL) - black (GLE	Y 2.5/N), moist; 90% clay, 5% slit, 5% fine sand.	-   .	
6-				silt, 10% fine sand.	own (7.5YR 6/4), becomes dry; 80% clay, 10% greenish gray (5G 6/1), moist; 80% clay, 15%		
- 12	 HA2-12.0 HA2-W			CLAY WITH GRAVEL (CL) 20% fine gravel.	– dark brown (7.5YR 3/4), moist; 80% clay,	- Grab groundwater	
_	RAZ-H			Bottom of boring at 13.5	feet bgs.	sample HA2-W, taken at I3.5 feet bgs.	
15 <u> </u>						-	
- 18- - -					·		
21—			220/1			Page 1 of	

Gettler-Ryan, Inc.						Log of Boring HA-3		
PROJECT: Chevron Service Station No. 9-0338						LOCATION: 5500 Telegraph Avenue, Oakland, California		
PROJECT NO.: DG90338H.4C01						SURFACE ELEVATION:		
DATE STARTED: 08/12/02						WI. (ft. bgs): 13.0 DATE: 08/13/02 TIME: 10:42		
DATE FINISHED: 08/13/02						WL (ft. bgs): DATE: TIME	•	
DRILLING METHOD: 3 1/2 in. Hand Auger					Hand Auger	TOTAL DEPTH: 13.5 feet		
DRILLING COMPANY: Gettler-Ryan						GEOLOGIST: Geoffrey Risse		
(feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	Gi	EOLOGIC DESCRIPTION	REMARKS	
		$\Box$			Asphalt - 6 inches thick.		Onether broatefuled	
-					Base rock - 2.5 feet thick		Boring backfilled with pea gravet to 6 inch below ground surface, then finish to surface grade wit concrete.	
3-		-		CL	CLAY (CL) - black (GLEY sand.	2.5/N), moist, low plasticity; 95% clay, 5% fine		
6-					Color changes to dark broafine sand.	wn (7.5YR 3/4), becomes dry; 90% clay, 10%		
9-						reenish gray (5G 6/1), moist, iow plasticity; % silt.		
2-	HA3-11				CLAY (CL) – dark brown ( 10% fine sand.	7.5YR 3/4), molst; 80% clay, 10% fine gravel,		
4		<b>L</b> /			¥	•		
5-	W-EAH		///		Bottom of boring at 13.5 fe	et bgs.	Grab groundwater sample HA3-W, taken at 13.5 feet bgs.	
		1						
3-								
<u>-</u>	UMBER:						Page 1 c	

	Gett	ler-	Rya	in, Inc.	Log of Boring HA-4  LOCATION: 5500 Telegraph Avenue, Oakland, California		
PROJECT:	Chev	ron Se	rvice S	Station No. 9-0338			
PROJECT					SURFACE ELEVATION:		
DATE STA					WL (ft. bgs): 11.0 DATE: 08/13/02 TIME: 12:00		
DATE FIN					WL (ft. bgs): DATE: TIME		
·				Hand Auger	TOTAL DEPTH: 11.5 feet		
DRILLING	COMPA	NY:	Gettler	-Ryan	GEOLOGIST: Geoffrey Risse	·	
(feet)	SAKPI F TNT	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS	
				Asphalt - 6 inches thic		Boring backfilled	
-				Base rock - 2 feet thi		with pea gravel to 6 inch below ground surface, then finish to surface grade with concrete.	
3-	-		CL	CLAY (CL) - bluish bla silt.	ck (5PB 2.5/I), moist, low plasticity: 95% clay, 5%	-	
6-				CLAY WITH SAND (CL) fine sand, 5% fine grav	- greenish gray (5G 6/1), moist; 80% clay, 15% vel.		
9-	_			coarse gravel, 10% fine	wn (7.5YR 3/4), saturated; 80% clay, 10% fine to e to medium sand.	_	
12- HA	1-11 1-W	- ///		₹ Bottom of boring at 11.	5 feet bgs.	Grab groundwater sample HA4-W, taken at II.5 feet bgs.	
15-	•					•	
-							
18-							
21-							