

February 7, 1996

Chevron U.S.A. Products Company 6001 Bollinger Canyon Rd., Bldg. L P.O. Box 5004 San Ramon, CA 94583-0804

Mark A. Miller SAR Engineer Phone No. 510 842-8134 Fax No. 510 842-8252

Ms. Eva Chu Alameda County Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Chevron Service Station #9-0290 1802 Webster Street, Alameda, CA

Dear Ms. Chu:

Enclosed is the Well Installation Report dated December 29, 1995, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. Four soil borings were advanced and completed as ground water monitor wells (B-10, B-11, B-12, and B-13). This work was done to characterize dissolved ground water concentrations down gradient of the underground storage tanks and pump islands. This investigation also focused on providing additional information regarding whether dissolved hydrocarbons could have migrated through ground water to nearby off-site utility trenches.

Soil samples collected were submitted to Sequoia Analytical for analysis. Laboratory results indicate that low concentrations of TPH-G, BTEX, and TPH-D were detected in nearly all samples collected. Concentrations of these constituents in a sample collected from B-11 were somewhat higher.

Ground water samples will be collected from the new wells in conjunction with the regularly scheduled quarterly event. If the results of the monitoring report indicate that the dissolved hydrocarbon plume in ground water is limited and defined, then monitoring reductions may be proposed.

If you have any questions or comments, please feel free to contact me at (510) 842-8134.

Sincerely,

CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller

Site Assessment and Remediation Engineer

Ms. Eva Chu February 7, 1996 Page 2

Enclosure

cc: Ms. Y.M. Byeman

Ms. Louise Van De Deere Housing Authority of the City of Alameda 701 Atlantic Avenue Alameda, CA 94501

WELL INSTALLATION REPORT

for

Chevron Service Station #9-0290 1802 Webster Street Alameda, California

Project No. 5280.01

Prepared for:

P.O. Box 5004
San Ramon, California 94583

Prepared by:

Gettler-Ryan Inc. 6747 Sierra Court, Suite J Dublin, California 94568

> Barbara Sieminski Project Geologist

Stephen J. Carter Senior Geologist R.G. #5577 No. 5577

December 29, 1995

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EXECUTIVE SUMMARY

Gettler-Ryan Inc. (G-R) presents this report of the subsurface investigation performed at Chevron Service Station #9-0290 located at 1802 Webster Street in Alameda, California. Four groundwater monitoring wells (B-10 through B-13) were installed at the site to further assess the absence or presence of dissolved hydrocarbons in soil and groundwater and to verify the groundwater flow direction and gradient beneath the site.

Shallow groundwater was encountered at depths of approximately 6.4 to 7 feet below ground surface (bgs) in borings B-10, B-12 and B-13, and at a depth of approximately 1 foot bgs in boring B-11. Based on groundwater monitoring data collected on November 29, 1995, groundwater beneath the site flows toward the northeast at a gradient of 0.003 to 0.01 ft/ft.

Total petroleum hydrocarbons as gasoline (TPHg) were detected at concentrations ranging from 69 parts per million (ppm) to 1,900 ppm in soil samples collected from borings B-10 through B-12 but were not detected in the sample collected from borings B-13. Total petroleum hydrocarbons as diesel (TPHd) were detected in soil samples collected from borings B-10 through B-13 at concentrations ranging from 1.1 ppm to 330 ppm. Methyl t-butyl ether (MTBE) was detected in samples collected from borings B-11 (at 2 feet bgs) and B-12 at concentrations of 17 ppm and 8.2 ppm, respectively, but was not detected in soil samples collected from borings B-10 and B-13. Benzene was detected at concentration of 0.75 ppm in the sample from boring B-10 but was not detected in soil samples from borings B-11 through B-13.

WELL INSTALLATION REPORT

for
Chevron Service Station #9-0290
1802 Webster Street
Alameda, California

Project No. 5280.01

1.0 INTRODUCTION

G-R is pleased to present this report documenting the results of the installation of four on-site groundwater monitoring wells at the above-referenced location (Figure 1). The wells were installed to further assess subsurface conditions beneath the site. The work for this phase of the investigation was performed as specified in the G-R Well Installation workplan dated August 11, 1995, approved by the Alameda County Health Care Services Agency (ACHCSA) in the letter dated October 4, 1995. The scope of work included: drilling four on-site soil borings (B-10 through B-13) and installing groundwater monitoring wells in these borings; collecting soil samples from the borings for chemical analysis; developing wells B-10 through B-13; surveying wellhead elevations of the newly installed wells; arranging for disposal of the waste materials; and preparing a report documenting the work.

2.0 SITE DESCRIPTION

2.1 General

Chevron Station 9-0290 is an operating service station located at the northeastern corner of the intersection of Webster Street and Buena Vista Avenue in Alameda, California. Site topography is flat at the elevation of approximately 12 feet above mean see level. Four 10,000-gallon gasoline underground storage tanks (USTs) are located in the common pit in the southwestern portion of the site. A waste oil UST is located south of the station building. A former waste oil UST was located near the southeastern corner of the gasoline UST pit. Locations of the USTs and other pertinent site features are shown on Figure 2.

2.2 Geology and Hydrogeology

The subject site is located within the California Coast Ranges. The Coast Ranges have a Franciscan basement composed of graywackes, limestone, shale and radiolarian chert¹. Locally, the site is generally underlain by sand and silty sand.

The nearest surface waters are the Oakland Inner Harbor approximately 3/4 mile to the north and the San Francisco Bay approximately 2/3 mile to the south. Historical groundwater monitoring data from this site indicates,

Norris, Robert M. and Webb, Robert W., 1990, Geology of California, John Wiley and Sons, 537 pages.

groundwater is encountered at approximately 4 to 8 feet bgs. Historical monitoring data indicate that the groundwater flow direction beneath the site is northwesterly.

3.0 SITE HISTORY

The following site history was obtained from Chevron project files supplied to G-R.

As a result of an apparent 50 gallon regular gasoline leak from a 10,000-gallon underground storage tank (UST), six monitoring wells (B-1 through B-6) were installed at the site in January 1982 by J.H. Kleinfelder and Associates (K&A) of Walnut Creek, California under the direction of I.T. Enviroscience (ITE) of Concord, California. The tank was removed from service after a hole was found in the tank near the tank fill pipe. Although groundwater samples were collected from all six wells for visual inspection on January 21, 1982, no soil or groundwater samples were collected for chemical analysis. The combustible gas concentration and percent of lower explosive limit (LEL) was measured in each well. A sheen was not observed on any of the groundwater samples. A groundwater sampling program was initiated at the site in September 1991.

On September 19, 1991, approximately 1,400 gallons of diesel fuel were inadvertently pumped into tank backfill, well A-1 during tank testing activities. Approximately 1,600 gallons of separate-phase hydrocarbons (SPH) were removed from the well immediately after the release was discovered. A weekly SPH recovery program established by Pacific Environmental Group, Inc. (PEG) of Santa Clara, California removed an additional 346 gallons of diesel SPH from well A-1 between September 1991 and July 1992. Since more SPH was recovered than apparently spilled, the SPH was analyzed to identify the various constituents. Laboratory analysis showed that the SPH consisted of 95.9 percent lube oil, 2.5 percent diesel fuel and 1.6 percent gasoline. A July 1992 letter from Chevron to Ms. Juliet Shin of the ACHCSA noted that the bulk of the diesel fuel had apparently been recovered. Laboratory results suggested that waste oil had also been inadvertently disposed into well A-1 because waste oil was also being recovered during weekly bailing. Since very small volumes of SPH were being recovered during bailing events in early 1992, the bailing frequency was reduced to biweekly in January 1992, and then to monthly in February 1992.

The USTs were removed and replaced in early 1982. A gauge stick hole was observed in the bottom of the regular gasoline tank during removal. A new diesel tank and new waste oil tank were also installed in the same excavation as the gasoline tanks. During tank replacement, monitoring well B-2 was destroyed to accommodate the new tanks and tank backfill wells A-1 and A-2 were installed within the new UST excavation.

Between March 29 and 30, 1993, Groundwater Technology of Concord, California (GTI) installed groundwater monitoring wells B-7, B-8 and B-9. Analytic results from soil samples collected during drilling activities showed

TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations below detection limits. Groundwater samples were collected in April 1993 from eight site monitoring wells and analyzed for TPHg, TPHd and BTEX. TPHg was detected in wells B-1, B-3 and B-4 at 13,000, 18,000 and 5,700 parts per billion (ppb), respectively. A-1 and A-2 had SPH thicknesses of 0.6 and 0.18 feet, respectively.

SPH were removed on a weekly basis from both tank backfill wells A-1 and A-2 until April 1994 when well A-2 was abandoned. Weekly SPH removal is still being conducted in well A-1. Due to the SPH viscosity, the use of absorbent pads to remove the SPH in wells A-1 and A-2 began in June 1993. Concentrations of TPHg, TPHd and BTEX have been consistently low or non-detect in all site wells for the last four quarters except for source area wells.

4.0 FIELD WORK

Field work at the site was conducted in accordance with the G-R Field Methods and Procedures included in the G-R workplan, and the Site Safety Plan dated September 5, 1995. Well installation permit #95716 was obtained from the Zone 7 Water Agency prior to drilling at the site. A copy of the permit is included in Appendix A.

4.1 Drilling Activities

On October 31, 1995, G-R personnel observed and documented the drilling of four on-site soil borings (B-10 through B-13) by Bay Area Exploration Services, Inc., of Cordelia, California (C57 #522125). Boring locations are shown on Figure 2. Borings B-10 through B-13 were drilled to 16.5 feet bgs using eight-inch hollow-stem augers driven by a truck-mounted CME-55 drill rig. Soil samples were collected from the borings at a minimum of five-foot intervals. Soil samples were field screened during drilling for the presence of volatile organic compounds using a photoionization detector (PID). PID readings are presented on the boring logs (Appendix B).

Groundwater monitoring wells were constructed in borings B-10 through B-13. The wells were constructed using two-inch diameter, 0.010-inch machine-slotted Schedule 40 PVC screen. A sand pack of #2/12 graded sand was placed across the entire screen interval, extending approximately 1/2 to 1 foot above the top of the screen. Each well was then sealed with 1/2 foot of hydrated bentonite chips followed by neat cement. Well construction details are presented on the boring logs in Appendix B.

Drill cuttings were stockpiled on-site, placed on and covered with plastic sheeting. After completion of well installation, four samples for disposal characterization were collected from the stockpiled soil and submitted to the laboratory for compositing and analysis as sample SP-(A-D)comp. On November 30, 1995, the soil stockpile was

removed from the site and transported to BFI Landfill in Livermore by Integrated Waste Management of Milpitas, California.

4.2 Well Development

On November 3, 1995, groundwater monitoring wells B-10 through B-13 were developed by G-R personnel using a vented surge block and hand-bailing. Groundwater evacuated during well development activities was transported to the Chevron Refinery in Richmond, California. Copies of the Well Development Data Field Sheets are included in Appendix C.

4.3 Wellhead Survey

On November 9, 1995, wells B-10 through B-13 were surveyed relative to mean sea level by Virgil Chavez, licensed land surveyor #6323 of Vallejo, California. The survey report is included in Appendix D and the survey data is summarized in Table 2.

4.4 Groundwater Monitoring

Quarterly monitoring and sampling of site groundwater monitoring wells was performed on November 29, 1995, by Blaine Tech Services Inc. of San Jose, California (Blaine Tech). Groundwater monitoring data are presented in Table 2 and a copy of the Blaine Tech field monitoring data sheet is included in Appendix C. Chemical analytical data will be reported in the Blaine Tech fourth quarter 1995 groundwater monitoring report.

4.5 Laboratory Analyses

Soil samples collected during this investigation were delivered under chain-of-custody to Sequoia Analytical of Redwood City, California (ELAP #1210). Selected soil samples from the well borings were analyzed for TPHg, BTEX, MTBE and TPHd by Environmental Protection Agency (EPA) Method 8015Mod/8020. Composite soil stockpile sample SP-(A-D)comp was analyzed for TPHg and BTEX using the methods described above. Copies of the laboratory analytical reports and chain-of-custody records for soil samples are included in Appendix F. G-R is not responsible for laboratory omissions or errors.

5.0 RESULTS

5.1 Subsurface Conditions

Soil encountered in borings B-10 through B-13 consisted of fine to medium sand. Groundwater was encountered in borings B-10, B-12 and B-13 at depths of approximately 6.4 to 7 feet bgs. Groundwater was encountered in boring B-11 at a depth of approximately 1 foot bgs. Detailed descriptions of the subsurface materials encountered during drilling are presented on the boring logs in Appendix B.

Using groundwater monitoring data collected by Blaine Tech on November 29, 1995, G-R has prepared a potentiometric map for the site (Figure 2). Based on these data, shallow groundwater beneath the site appears to flow toward the northeast at an approximate gradient of 0.003 to 0.01 ft/ft.

5.2 Analytical Results

Petroleum hydrocarbons were detected in all samples analyzed, **TPHg** were detected at concentrations ranging from 69 ppm to 1,900 ppm in soil samples collected from borings B-10 through B-12 but were not detected in the sample collected from boring B-13. TPHd were detected in soil samples collected from borings B-10 through B-13 at concentrations ranging from 1.1 ppm to 330 ppm. MTBE was detected in the soil samples collected from borings B-11 (at 2 feet bgs) and B-12 at concentrations of 17 ppm and 8.2 ppm, respectively, but was not detected in soil samples collected from borings B-10 and B-13. Benzene was detected at concentration of 0.75 ppm in the sample from boring B-10 but was not detected in soil samples from borings B-11 through B-13.

TPHg were detected in stockpile sample SP-(A-D)comp at concentration of 55 ppm. Benzene and toluene were not detected in the stockpile sample but ethylbenzene and xylenes were detected at concentrations of 0.61 ppm and 1.9 ppm, respectively. Analytical results of soil samples are summarized in Table 1.

Table 1. Soil Analytical Results - Chevron Service Station #9-0290, 1802 Webster Street, Alameda, California

Sample ID	Depth (ft)	Date	Analytic Method	TPHg <	В	T	E	X	TPHd 	MTBE >	
B10-6	6	10/31/95	8015/8020	. 69	0.75	< 0.10	0.78	0.78	330	< 0.50	
B11-2	, 2	10/31/95	8015/8020	1,900	<2.5	<2.5	39	150	77	17	
B11-5	5	10/31/95	8015/8020	210	< 0.50	< 0.50	2.1	6.4	28	<2.5	
B12-6	6	10/31/95	8015/8020	520	<1.0	< 1.0	2.9	6.6	69	8.2	
B13-6	6	10/31/95	8015/8020	<1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	1.1	< 0.025	
SP-(A-D)cor	m p	10/31/95	8015/8020	55	<0.10	< 0.10	0.61	1.9			

EXPLANATION:

TPHg = Total Petroleum Hydrocarbons as gasoline

B = Benzene

T = Toluene

 $\mathbf{E} = \mathbf{E}$ thylbenzene

X = Xylenes

TPH(d) = Total Petroleum Hydrocarbons as diesel

MTBE = Methyl t-Butyl Ether

ppm = Parts per million

--- = Not analyzed/not applicable

ANALYTICAL METHODS:

8015 = EPA Method 8015Mod for TPHg and TPHd 8020 = EPA Method 8020 for BTEX and MTBE

ANALYTICAL LABORATORY:

Sequoia Analytical of Redwood City, California (ELAP #1210).

Sample Identification: B13-6

Sample depth
Boring number
Soil sample from boring

Table 2. Water Level Data - Chevron Service Station #9-0290, 1802 Webster Street, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	Product Thickness	GWE (msl)
A-1/	*** (20.05		0.00	
11.56	11/29/95	6.38	0.08	5.24*
B-1/				
12.12	11/29/95	5.85	0	6.27
B-5/			_	
10.18	11/29/95	5.21	0	4.97
B-6/				
11.97	11/29/95	6.00	0	5.97
B-10/	•			
11.42	11/29/95	6.51	0	4.91
B-11/				
11.98	11/29/95	5.90	0	6.08
B-12/				
11.16	11/29/95	6.01	0	5.15
B-13/				•
11.17	11/29/95	5.91	0	5.26

EXPLANATION:

DTW = Depth to water

TOC = Top of casing elevation

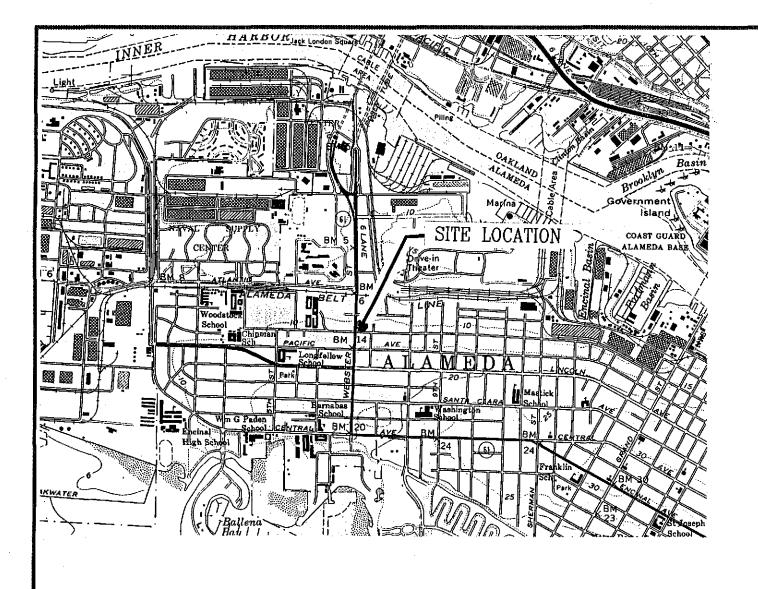
GWE = Groundwater elevation

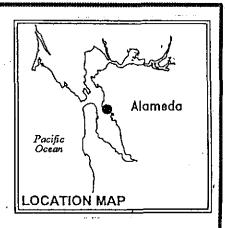
msl = Measurements referenced relative to mean sea level

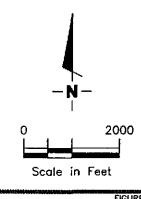
NOTES:

Top of casing elevations of wells B-10 through B-13 were surveyed by Virgil Chavez, LS #6323, on November 8, 1995. Wellhead elevations for wells A-1, B-1, B-5 and B-6 were obtained from Blaine Tech Services, Inc. Groundwater Sampling Report # 950501-V-1.

^{* =} Groundwater elevation corrected for product presence (TOC - DTW + (Product thickness x 0.8)







Base Map: USGS Topographic Map



Gettier - Ryan inc.

6747 Sierro Ct., Suite J Dublin, CA 94568

(510) 551-7555

VICINITY MAP

Chevron Service Station No. 9-0290 1802 Webster Street

Alameda, California

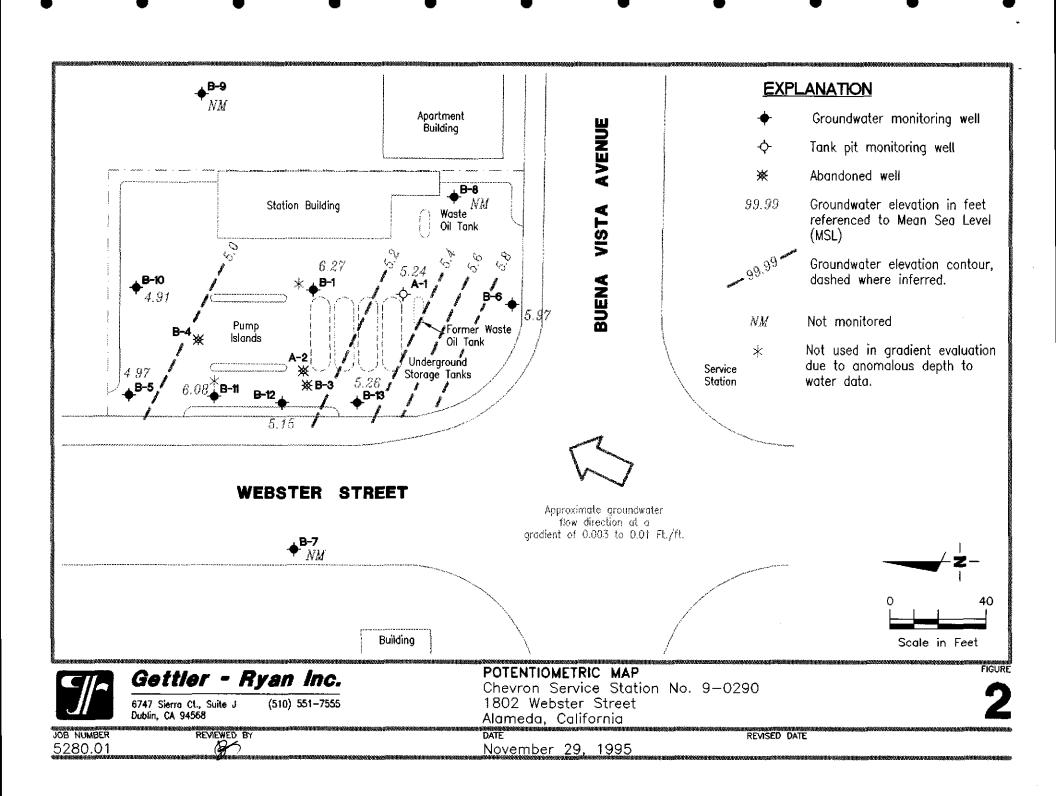
JOB NUMBER 5280

DATE

revised date

REVIEWED BY

August, 1995



APPENDIX A WELL INSTALLATION PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600

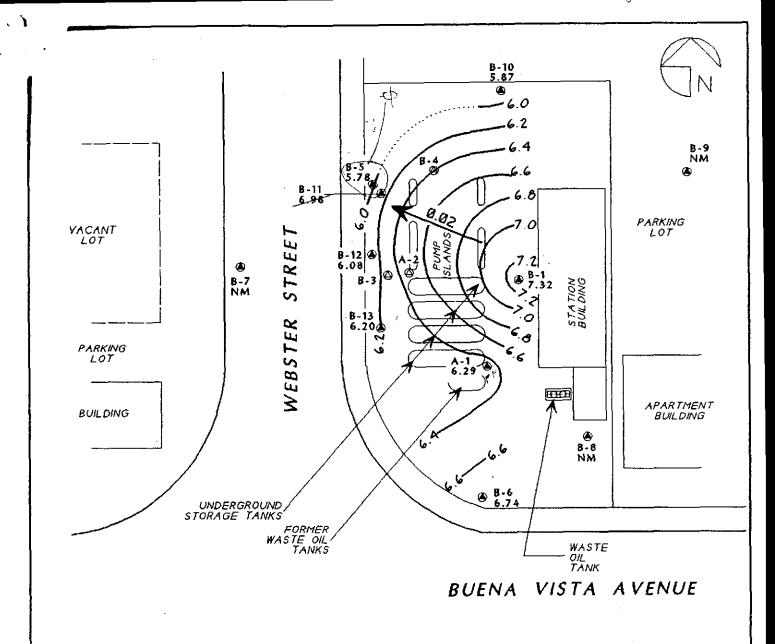
FAX (510) 462-3914

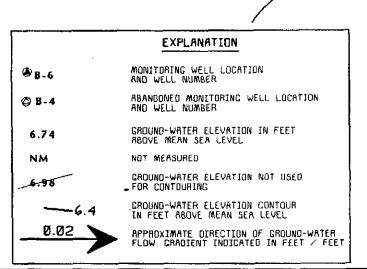
DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 1802 Webster Street Alameda, California	PERMIT NUMBER 95716 LOCATION NUMBER
CLIENT Name Chevron USA Products Co Address P.O. Box 5004 Voice (510) 842-9500 City San Ramon, CA ZIP 94583-0204	PERMIT CONDITIONS Circled Permit Requirements Apply
APPLICANT Name Gettler-Ryan Jnc Fax (510) 551-7555 Address 6747 Si'erra Ct Swie Voice (516) 551-7883 City Dublin CA Zip 94568 TYPE OF PROJECT Well Construction General Water Supply Contamination Monitoring Well Destruction PROPOSED WATER SUPPLY WELL USE Domestic Industrial Other Municipal Irrigation DRILLING METHOD: Mud Rotary Air Rotary Auger Hollow Stem	A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval date. B. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet. C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or
Cable Other DRILLER'S LICENSE NO. C57# 522125 WELL PROJECTS Drill Hole Diameter	heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings. D. CATHODIC. Fill hole above anode zone with concrete placed by tremie. E. WELL DESTRUCTION. See attached.
Number of Borings Maximum Hole Diameter in. Depth ft.	
ESTIMATED STARTING DATE ESTIMATED COMPLETION DATE 10/30/95 I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68. APPLICANTS SIGNATURE Babasa Allumbur Date 10/20/95	Approved Wyman Hong Date 24 Oct 9. Wyman Hong 91992

APPENDIX B

BORING LOGS





FEET

B.P. STATION

TITLE : GROUND-WATER ELEVATION CONTOUR MAP -

SOURCE

MAY 8. 1996

LOCATION: CHEVRON SERVICE STATION No.: 9-0290 1802 WEBSTER STREET, ALAMEDA, CALIFORNIA

:CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

GEOCONSULTANTS, INC SAN JOSE, CALIFORNIA Project No. 0758-09

INVINES HO. CHEVRON/CHESSSOV-VISSSIBS6

	MAJOR DIVIS	SIONS		TYPICAL NAMES
EVE		CLEAN GRAVELS WITH LITTLE	GW	WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
). 200 SIEVE	GRAVELS	OR NO FINES	GP	POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
D SOILS	COARSE FRACTION IS LAPGER THAN NO. 4 SIEVE SIZE	GRAVELS WITH	GМ	SILTY GRAVELS, SILTY GRAVELS WITH SAND
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO.		OVER 15% FINES	GC	CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
OARSE.	,	CLEAN SANDS WITH LITTLE	sw	WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
C THAN	SANDS MORE THAN HALF	OR NO FINES	SP	POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
MOF	COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	SANDS WITH	SM	SILTY SANDS WITH OR WITHOUT GRAVEL
		OVER 15% FINES	sc	CLAYEY SANDS WITH OR WITHOUT GRAVEL
SIEVE	÷*	,	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS
N NO, 200		ID CLAYS 50% OR LESS	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS
INED SOIL	-		OL	ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
FINE-GRAINED HALF IS FINER TI			мн	INORGANIC SILTS, MICACEOUS OR DIATOMACIOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO, 200 SIEVE		ND CLAYS · EATER THAN 50%	СН	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
MORE			ОН	ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
	HIGHLYOR	GANIC SOILS	PT	PEAT AND OTHER HIGHLY ORGANIC SOILS

LL - Liquid Limit (%)

Pl - Plastic Index (%)

PID - Volatile Vapors in ppm

MA - Particle Size Analysis

2.5 YR 6/2 - Soil Color according to Munsell Soil Color Charts (1975 Edition)

5 GY 5/2 - GSA Rock Color Chart

No Soil Sample Recovered
 - "Undisturbed" Sample
 □ Bulk or Classification Sample
 □ First Encountered Ground Water Level
 ■ Plezometric Ground Water Level

 Sample drive hammer weight - 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs

Unified Soil Classification - ASTM D 2488-85 and Key to Test Data

Penetration

		Ge	ettler-	Ry	an,	Inc.		Log of Boring B-10					
PRO	JECT:	Che	vron SS#	9-0	290			LOCATION: 1802 Webster Street,	Alameda, CA				
G-R	PROJE	ECT N	0.: 528	0.01	,			SURFACE ELEVATION: 11.42 feet MSL					
DAT	E STA	RTED	: 10/31/8	95				WL (ft. bgs): 7.0 DATE: 10/31/95	TIME: 15:05				
DAT	E FIN	ISHE	D: 10/31/	95				WL (ft. bgs): 7.1 DATE: 10/31/95	TIME: 16:10				
DRII	LING	METH	OD: 8 in	. Но	llow S	Stem A	uger	TOTAL DEPTH: 16.5 Feet					
DRII	LING	COMP	ANY: Ba	y A	rea E	xplora	tion, Inc.	GEOLOGIST: B. Sieminski					
DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GE	EOLOGIC DESCRIPTION Solve to the state of t					
							PAVEMENT - asp	chalt over baserock.	The state of the s				
5-				-		SP	SAND (SP) - ver damp, loose; 1003	y dark gravish brown (10YR 3/2),					
1 -	179	3	B10-6	1			Color change to hydrocarbon odo	dark greenish gray (5GY 4/1).					
-	172	21	B10-7	1			I V. ♥	m dense at 7 feet.	inct				
-				.									
10-	2.8	30	B10-11				Color change to	olive (5Y 5/3) mottled gray (5Y e brown (2.5Y 5/8).	machine slotted pvc ((
15-	0	18	B10-16			_		light olive brown (2.5Y 5/6).	Cap 2"				
							Bottom of boring	at 16.5 feet, 10/31/95.]				
20-				-			(* = converted blows/ft.)	to equivalent standard penetration					
_				-					1				
25-				-					1				
				.					1				
				.					1				
				'					1				
],,]				'					1				
30-				-					1				
1 1				'			}	• •	1				
1									1				
				']								
35-				'					_				
	MUMO) E 0 ·	5200 O'	1_									
AOB	NUME	יבא:	5280.01					• :	Page 1 of 1				

Gettler-Ryan, Inc.								Log of Boring B-11				
PRO	JECT:	Che	vron SS#	9-0	290			LOCATION: 1802 Webster Street, Alameda, CA				
G-R	PROJE	ECT N	0.: 528	0.01	r			SURFACE ELEVATION: 11.98 feet MSL				
DAT	E STA	RTED	: 10/31/	95				WL (ft. bgs): 1.0 DATE: 10/31/95 TIME: 11:40				
DAT	E FIN:	ISHE	1: 10/31/	95			 -	WL (ft. bgs): 4.5 DATE: 10/31/95 TIME: 13:40				
			0D: 8 in		llow 5	item A	uaer	TOTAL DEPTH: 16.5 Feet				
			ANY: Ba				·	GEOLOGIST: B. Sieminski				
						.,,						
DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GE	MELL DIAGRAM OLOGIC DESCRIPTION OLOGIC DESCRIPTION OLOGIC DESCRIPTION OLOGIC DESCRIPTION OLOGIC DESCRIPTION				
								crete over pea gravel.				
	110	NA	B11-2	.		SP	SAND (SP) - blad	ck (2.5Y 2/0), saturated, loose; ydrocarbon odor.				
5-	54	4	B11-5	-			Color change to fine to medium sa	dark greenish gray (5GY 4/1); 95% nd, 5% clay.				
10-	31	22	B11-11				Color change to (5Y 5/1); become medium sand; roo					
15-	5.9	22	B11-16				olive (5Y 5/4).	light olive brown (2.5Y 5/8) mottled				
							Bottom of boring	at 16.5 feet, 10/31/95.				
20				-			(x = converted t blows/ft.)	o equivalent standard penetration				
25—								- -				
30-								-				
!		\		-								
35-		L	5280.01	_	L			-				

Gettler-Ryan, Inc.								Log of Boring B-12				
PRO	JECT:	Che	vron SS#	9-0	290		· · · · · · · · · · · · · · · · · · ·	LOCATION: 1802 Webster Street, Alameda, CA				
G-R	PROJE	ECT N		0.01			-	SURFACE ELEVATION: 11.16 feet MSL				
DAT	E STA	RTED	: 10/31/	95		-	······································	WL (ft. bgs): 6.4 DATE: 10/31/95 TIME: 14:10				
DAT	E FIN	SHE): 10/31/	95		_		WL (ft. bgs): 6.4 DATE: 10/31/95	TIME: 15:00			
DRIL	LING	METH	0D: <i>8 in</i>	. Ho	llow S	Stem A	uger	TOTAL DEPTH: 16.5 Feet				
			ANY: Ba					GEOLOGIST: B. Sieminski				
DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GE	OLOGIC DESCRIPTION	waspaid here Sch. 40			
				_			PAVEMENT - cor	crete over pea gravel.				
5-	240	7	B12-6	-		SP	SAND (SP) - ver damp, loose; 1009 Color change to 4 feet.					
- - 10-				-			¥ ¥ hydrocarbon odo Saturated at 6.4	statted pvc (0.01 inch)				
15-	12	24	B12-11				95% fine to mediu	grayish brown (2.5Y 5/2) mottled own (10YR 4/6) and gray (N 5/0); Im sand 5% clay.	Cap 2" machine st			
-	7.1	25	B12-16	-			gray (N5/0).	IGHT ONCE DIONIT (EIGH OF A) INCIDES				
				-			Bottom of boring	at 16.5 feet, 10/31/95.				
20-				-			(* = converted blows/ft.)	to equivalent standard penetration				
25 - - -				-					-			
30-				-					1			
				-				,				
				-					-			
				-]		1			
35-			5280.01	_			1		Page 1 of 1			

Page 1 of 1

Gettler-Ryan, Inc.								Log of Boring B-13			
PRO	JECT:	Che	vron SS#	9-0	290			LOCATION: 1802 Webster Street, Alameda, CA			
1	PROJE							SURFACE ELEVATION: 11,17 feet MSL			
DAT	E STA	RTED	: 10/31/9	95				WL (ft. bgs): 6.5 DATE: 10/31/95	TIME: 9:55		
	E FIN							WL (ft. bgs): 6.5 DATE: 10/31/95	TIME: 10:35		
DRI	LLING	METH	0D: 8 in.	Но	llow St	em Au	ıger	TOTAL DEPTH: 16.5 Feet			
_	LLING	•					ion, Inc.	GEOLOGIST: B. Sieminski			
DEPTH feet	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GE	OLOGIC DESCRIPTION	ank pvc Sch. 40 ment te		
5-	2.8	5	B13-6	-		SP	SAND (SP) - ver damp, loose; 1009 Color change to becomes moist, m		(0.01 inch) + + + + + + + + + + + + + + + + + + +		
10-	12.7	15 22	B13-7				Color Change to		machine slotted pvc		
- 15— - -	3.4	23	B13-16					light olive brown (2.5Y 5/6). at 16.5 feet, 10/31/95.			
20-				- -		•	(* = converted blows/ft.)	to equivalent standard penetration			
25-				-							
30-				-							
				-					4		
L 35-	1		1	-							

	0	DRY DEWSITY 16/ft3	HOISTURE CONTENT & DRY WEIGHT	BLOW COUNT	SAPLE	uscs	DESCRIPTION	WELL CONST.	
	U						Pavement section - 2"/6"		
	3 —					SP	Dark brown sand, moist, loose		
	6 -						▼Yellow brown medium- grained sand, saturated, trace clay.		
IN FEET	9 -		19	Bag	5-8	SP	More dense, more clay.		
DEPTH	12							Brown, clayey sand, medium.	
	15-		9	-		SP			
	18-			•			Caving sand.	111111	
	21						Bottom of boring at 20 ft.		

J.H. KLEINFELDER & GEOTECHNICAL CONSULTANTS •	ASSOCIATES MATERIALS TESTING	IT/ALAMEDA CHEVRON ALAMEDA, CALIFORNIA LOG OF BORING NO. B-5	PLATE 6
PREPARED BY: FK	DATE: 1/28/82]	
CHECKED BY: CRN	DATE: 1/28/82	PROJECT NO. B-1163-1	

APPENDIX C

G-R WELL DEVELOPMENT
AND BLAIN TECH WELL MONITORING FIELD DATA SHEETS

WELL DEVELOPMENT DATA

OB NO.	52	80.0	•			LOCATION	Chevro	n# 9-0290 B-10.					
AME	Gua	daluga	Sano	hes			1802	1802 Webster St Alameda					
ATE		<u>/- 3 - 9</u>											
TIME	WATER LEVEL	рН	ТЕМР	CONDUCTIVITY	PURGE	SURGE	AMOUNT REMOVED GALLONS			COMMENTS (odor, color, sediments, etc.)			
iart: 1258	6.42							<i>></i> 4 Su	rsed fi	or 15 min.			
7319	7.02	6.9	744	1610	u		2_	mild.	brown	sandy/clay			
tart: /323	7-94	6.9	73.9	1610	~		4	4	· ·	, —, (, ,			
tot 1328	8.73	6-8	73.2	1450	~		6	. (1	· U	'1			
tart: /333	9.85	6.7	72.9	1210	U		8	۱(4	11			
1336 tart: 1341	10.72	6-7	726	1120	/		lo	- (1	И	11			
tart: 1341	11-09	6-8	727	1060	المسر		12	u ·	٠ ٧	\mathcal{U}			
1345 (345 lart: /310	11.36	6.7	72.8	1080	/		14:	·/	7	1	··		
וart: ארוויםו	12.01	6-7	72.9	1050	المعمري .		H.	il	**	4	·		
10p: 1353	12.10	6.7	72-8	1060			18	11	1				
DTW BEFORE	6.4	12	ВЕ	TOTAL DEPTH	16.	25		SURGE BA	lock / St	development method tainless Steel Bailer Steel Bailer			
DTW AFTER	12.	10	,	TOTAL DEPTH AFTER DEVELOPMENT	16	. 3		PURGE S	tauless	Steel Balles			
/6.2) TAL DEPTH INITIAL		、イン) OTW (INITIAL	x <u>'</u>	CONVERSION FACTOR	= (1,7 (1 WELL VOL)		AMT. INJECT	<u>ED</u>	2° = 0.17 3° = 0.38 4° = 0.66 6° = 1.50			

WELL DEVELOPMENT DATA

ЭВ NO.	5280.01
AME	Guadalipe Sauches
ATE	11-7-65

LOCATION Cheurn # 9-0290
1802 Webster Are St

TIME	WATER LEVEL	рН	ТЕМР	CONDUCTIVITY	PURGE	SURGE	AMOUNT REMOVED GALLONS	COMMENTS (odor, color, sediments, etc.)
tart: /625				*	,			* Surged for 15 min.
本1645	5-80	7-	71.4	1000	~		2	mild brown the send /c/an
粒 %49	6.72	7-1	70.9	940			4	11 4
節1653	7.09	7.2	71.0	690			. 6	ti ti
art: 1658	7.96	71	70.8	510			8	a de la companya de l
top: 1702	8.47	7.2	70.8	490	V		10	u g li
art: /707	9.61	7.2	70.5	तरु०			12	in in
\$ +1711	10.38	7.1	70.4	440	· ·		14	11 4
art: / 7-16	11.01	7.1	70.4	430			16	4
op: 1721	11.70	7.1	70.4	430	V.		18	11 11

		DEVELOPMENT METHOD	
DEVELOPMENT 5-80	TOTAL DEPTH BEFORE DEVELOPMENT	SURGE Block / Stainlan Steel Block	
		PURGE Stainless Steel Block	_
DTW AFTER 11.70	AFTER DEVELOPMENT /50	INJECTION	_
		AMT, INJECTED	_
ITIAL WELL VOLUME:			

CONVERSION FACTORS

2" = 0.17 3" = 0.38 $4^* = 0.66$ $6^{\circ} = 1.50$

WELL DEVELOPMENT DATA

OB NO.		280-0				LOCATION		ron # 9-0			B-12.
AME	Guada	Lope -	Sauche	. 4			1802	Webster	S+ Al	meda	
ATE		3-51		-							
TIME	WATER LEVEL	рН	TEMP	CONDUCTIVITY	PURGE	SURGE	AMOUNT REMOVED GALLONS		(odor,	COMMENTS color, sediment	s, etc.)
lart: 1510	2.88							* Surge	d for 1s	min	
stat 1530	8.72	7.1	71.6	1210	سر		7_	mill	brown,	sandy	Clay
tart: /535	11-37	7-1	69-1	1290	سمست		4	" /	q '	4,7	/
100 1539	13.93	7.0	70.1	1170	· U		6	i (1 (ι,	
THE STOP 154	13.38	7-1	70.2	990	~	}	8	c _q	le	Ci	(Well dewatered)
iope Start/Go	8.32	7.1	71-2	950			10	t.	i t	ч	
tart: /6,3	13.02	7.1	71.3	900			12	Ղ .	l e	Lj	•
top 1608	15.30	7.0	71.0	\$ 870			14	u	1 (15	(well daughers)
tart:		• !						* well	re covers	fast	
lop:			<u> </u>							 	
DTW BEFORE	5-8	8	B	TOTAL DEPTH EFORE DEVELOPMENT	15.	3		SURGE Block	101-	LOPMENT ME	THOD L Bailer
- 7			•	. ***				PURGE Stan	Wass Stee	& Bail	ler
DEVELOPMENT	15.3	1 Q		TOTAL DEPTH AFTER DEVELOPMENT	15-	6		INJECTION	,		
TITAL WELL VOLUME:						AMT. INJECTED					
15.3	·	5.88,	. ×	(/ 7)	= ,	() WELL VOL	`		CON	\mathbf{v} = 0.17	ors
TAL DEPTH INITIAL	I	IAITIND WTC	-)	FACTOR		(A TIBLE YOL	<i>y</i>		*	3" = 0.38 4" = 0.66	
			,						•	6" = 1.50	

:					WE	ELL DEVEI	OPMENT DA	LTA .			
ON BC	528					LOCATION	Chevr	m # 9-0	290	B-13	 .
∤AME	Guad	alupe 3-55	Sanch	er			1802	Webster	St	Flormeda	
ATE	11-	3-55									
TIME	WATER LEVEL	рН	ТЕМР	CONDUCTIVITY	PURGE	SURGE	AMOUNT REMOVED GALLONS			COMMENTS for, color, sediments, etc.)	
tart: 🗢 /40)	<u> </u>							* Surg	red for	15" min.	
tot 1422	5.80	7-1	73.3	1370	~		2	mild	brown	sandy /Clay	<u>.</u>
art: /427	6.22	7-0	73.0	1340			4	મ	c,	, , , , , , , , , , , , , , , , , , ,	
1432	6.97	7.0	72.9	1260			6	t,	t j	N g	<u> </u>
Herri: 1435	7-42	6-9	72.9	1200	~		8	U	4)	4	
test 1440	8.01	6.9	730	1160	/	- ندندندند بندین در این ا	10	μ	<u> </u>	11	-
tart:/444	8-75	7.0	73.1	1070			12	ζ, .	. tç	. 4	
144 9	9.03	6.9	72.9	1030	0		14	"((,	(1	
art: 1453	€.68	6.9	720	/010	·/		16	ί	ι,	t_{i}	•
ор: 1458	10.10	6.9	73.0	1000			18	u	<u> </u>	4	
DTW BEFORE	5-8	<u>ა</u>		TOTAL DEPTH	/3.	8		SURGE B/	,	VELOPMENT METHOD Less Steel Bailar	
Danie Arter				TOTAL DEPTH	111	ب.		PURGE S	tainless	Steel Bailes	
DTW AFTER DEVELOPMENT	/0,	10	,	AFTER DEVELOPMENT	14,	/)	-	INJECTION	•		
13-8		ST. 80,	x	((17)	=	1.3	•	AMT. INJECTED		CONVERSION FACTORS	
TAL DEPTH INITIAL		OTW (INITIAL)	•	CONVERSION FACTOR	Ć	1 WELL VOL)		•	2" = 0.17 3" = 0.38 4" = 0.66	

2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.50

WELL GAUGING DATA

1 1:19

Chevian Project # 951129 G2 11-29-95 client 9-0290 WEBSTER site_ 1802 ALAMEDA. Depth to Immiscible Volume of Immiscibles Removed (ml) Depth to Water (feet) Sheen/ Odor Depth to Well Bottom (feet) Immiscible Liquid (ft.) F.P. 3 6.30 0.08 100 ml カレ 2 BI 17.22 B 5 2 5.21 18,00 2 18:22 6.00 B 10 6.51 16.13 11 2 5.90 1478 12 15.45 B 13 5.91 13,99 \$ it

APPENDIX D

WELLHEAD SURVEY REPORT

Virgil Chavez Land Surveying

1418 Lassen Street Vallejo, California 94591 707.553.2476

November 9, 1995 Project No. 1104-26

Barbara Sieminski Gettler-Ryan, Inc. 6747 Sierra Ct. Suite J Dublin, Ca. 94568

Subject: Monitoring Well Survey

Chevron Service Sta. No. 9-0290

1802 Webster Street

Alameda, Ca.

Dear Barbara:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was performed on November 8, 1995. Our findings are shown in the tables below. The benchmark, was a brass disk in a monument well at the mid return of the northwest corner of Webster St. and Buena Vista Ave. Benchmark Elevation = 11.09 feet, USGS Datum.

Well	No.	Rim Eleva	Top of Casing tion Elevation
B -		11.80	11.42'
B -		11.20	11.98'
В -		11.41	11.16'
в -	13	11.62	' 11.17'

The table shown below is for top of casings. The back of sidewalk on Webster Street was used as the reference line.

Monitoring Well No.	Station	Offset
B - 10	1+69.50	56.27′
B - 11	1+36.47	6.95′
B - 12	1+05.72	5.18′
B - 13	0+77.56	6.35′
FC near north PL	1+80.37	0.00'(BSW)

No. 6323 R

Sincerely,

Virgil D. Chavez, P.L.S. 6323 Virgil Chavez Land Syrveying

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568

Client Proj. ID: Chevron 9-0290, Alameda Sample Descript: B10-6

Sampled: 10/31/95 Received: 11/01/95

Matrix: LIQUID

Extracted: 11/03/95

Attention: Barbara Sieminski

Analysis Method: 8015Mod/8020 Lab Number: 9511064-01

Analyzed: 11/06/95 Reported: 11/08/95

QC Batch Number: GC110395BTEXEXB

Instrument ID: GCHP06

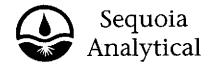
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ction Limit g/Kg	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	***************************************	20 0.50 0.10 0.10 0.10 0.10	N.D. 0.78 0.78
Surrogates Trifluorotoluene	Contro 70	ol Limits % 130	% Recovery

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568

Chevron 9-0290, Alameda Client Proj. ID: Sample Descript: B10-6

Sampled: 10/31/95

Matrix: LIQUID

Received: 11/01/95 Extracted: 11/03/95

Attention: Barbara Sieminski

Analysis Method: EPA 8015 Mod Lab Number: 9511064-01

Analyzed: 11/07/95 Reported: 11/08/95

QC Batch Number: GC1103950HBPEXA

Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

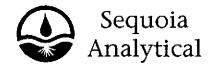
Analyte **Detection Limit** Sample Results mg/Kg mg/Kg TEPH as Diesel Chromatogram Pattern: C9-C24 % Recovery **Control Limits %** Surrogates n-Pentacosane (C25) 50 150 13Ó

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager

Page:



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G

Client Proj. ID: Chevron 9-0290, Alameda Sample Descript: B11-2

Sampled: 10/31/95

Dublin, CA 94568

Matrix: LIQUID

Attention: Barbara Sieminski

Analysis Method: 8015Mod/8020 Lab Number: 9511064-02

Received: 11/01/95 Extracted: 11/03/95 Analyzed: 11/06/95 Reported: 11/08/95

QC Batch Number: GC110395BTEXEXB

Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		ction Limit ig/Kg	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		500 12 2.5 2.5 2.5 2.5 2.5	17 N.D. N.D. 39
Surrogates Trifluorotoluene	Contro 70	ol Limits %	% Recovery 106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -

Mike Gregory Project Manager

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Attention: Barbara Sieminski

Client Proj. ID: Chevron 9-0290, Alameda Sample Descript: B11-2

Sampled: 10/31/95

Dublin, CA 94568

Matrix: LIQUID

Analysis Method: EPA 8015 Mod Lab Number: 9511064-02

Received: 11/01/95 Extracted: 11/03/95 Analyzed: 11/06/95 Reported: 11/08/95

QC Batch Number: GC1103950HBPEXA Instrument ID: GCHP5A

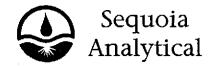
Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte **Detection Limit** Sample Results mg/Kg mg/Kg TEPH as Diesel Chromatogram Pattern: C9-C24 Surrogates **Control Limits %** % Recovery n-Pentacosane (C25) 150

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 (415) 364-9600 Walnut Creek, CA 94598 (510) 988-9600

(916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568

Chevron 9-0290, Alameda Client Proj. ID:

Sampled: 10/31/95

Sample Descript: B11-5 Matrix: LIQUID

Received: 11/01/95 Extracted: 11/03/95

Attention: Barbara Sieminski

Analysis Method: 8015Mod/8020

Analyzed: 11/06/95

Lab Number: 9511064-03

Reported: 11/08/95

QC Batch Number: GC110395BTEXEXB Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte		tection Limit mg/Kg	S	ample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		100 2.5 0.50 0.50 0.50 0.50		6.4 Gas
Surrogates Trifluorotoluene	Co r 70	ntrol Limits %	%	Recovery 92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568

Client Proj. ID: Chevron 9-0290, Alameda Sampled: 10/31/95

Sample Descript: B11-5 Matrix: LIQUID

Received: 11/01/95 Extracted: 11/03/95 Analyzed: 11/05/95 Reported: 11/08/95

Attention: Barbara Sieminski

Analysis Method: EPA 8015 Mod Lab Number: 9511064-03

QC Batch Number: GC1103950HBPEXA Instrument ID: GCHP5A

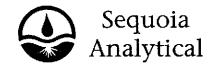
Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Dete I	Sample Results mg/Kg	
TEPH as Diesel		1.0	28
Chromatogram Pattern:		C9-C24	UNIDENTIF
Surrogates	Cont	rol Limits %	% Recovery
n-Pentacosane (C25)	50		150 96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G

Client Proj. ID: Chevron 9-0290, Alameda Sample Descript: B12-6

Dublin, CA 94568

Matrix: LIQUID

Sampled: 10/31/95 Received: 11/01/95 Extracted: 11/03/95 Analyzed: 11/06/95

Attention: Barbara Sieminski

Analysis Method: 8015Mod/8020 Lab Number: 9511064-04

Reported: 11/08/95

QC Batch Number: GC110395BTEXEXB Instrument ID: GCHP06

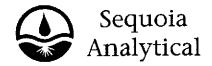
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection mg/		Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	20 5.0 1.0 1.0 1.0 1.0	0 0 0	520 8.2 N.D. N.D. 2.9 6.6
Surrogates Trifluorotoluene	Control I	Limits % %	Recovery 99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G

oj. ID: Chevron 9-0290, Alameda Client Proj. ID:

Sampled: 10/31/95

Dublin, CA 94568

Sample Descript: B12-6 Matrix: LIQUID

Received: 11/01/95 Extracted: 11/03/95

Attention: Barbara Sieminski

Analyzed: 11/06/95

Analysis Method: EPA 8015 Mod Lab Number: 9511064-04

Reported: 11/08/95

QC Batch Number: GC1103950HBPEXA

Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	De	Sample Results mg/Kg	
TEPH as Diesel Chromatogram Pattern:		2.0 C9-C24	
Surrogates n-Pentacosane (C25)	Co : 50	ntrol Limits %	% Recovery

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G

Client Proj. ID: Chevron 9-0290, Alameda Sampled: 10/31/95

Dublin, CA 94568

Sample Descript: B13-6 Matrix: LIQUID

Received: 11/01/95 Extracted: 11/03/95

Attention: Barbara Sieminski

Analysis Method: 8015Mod/8020 Lab Number: 9511064-05

Analyzed: 11/06/95 Reported: 11/08/95

QC Batch Number: GC110395BTEXEXB

Instrument ID: GCHP06

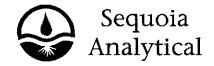
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	1.0 0.025 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 102

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G

Client Proj. ID: Chevron 9-0290, Alameda Sample Descript: B13-6

Sampled: 10/31/95

Dublin, CA 94568

Matrix: LIQUID

Received: 11/01/95 Extracted: 11/03/95

Attention: Barbara Sieminski

Analysis Method: EPA 8015 Mod Lab Number: 9511064-05

Analyzed: 11/05/95 Reported: 11/08/95

QC Batch Number: GC1103950HBPEXA

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Det	Sample Results mg/Kg	
TEPH as Diesel Chromatogram Pattern:		1.0 C9-C24	1.1 UNIDENTIF
Surrogates n-Pentacosane (C25)	Co n 50	itrol Limits %	% Recovery 83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598

(415) 364-9600 (510) 988-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568 Barbara Sieminski Attention:

Client Proj. ID: Chevron 9-0290, Alameda

Received: 11/01/95

Lab Proj. ID: 9511064

Reported: 11/08/95

LABORATORY NARRATIVE

Q- Surrogate diluted out.

the detection limit was raised by a factor of
20
10
500
5
100
200
2

SEQUOIA ANALYTICAL

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court, Ste G Client Project ID:

Chevron 9-0290, Alameda

Matrix:

Solid

Dublin, CA 94568 Attention: Barbara Sieminski

nski Work Order #:

9511064

-01- 05

Reported:

Nov 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	Diesel
			Benzene		
	C110395BTEXEXB	GC110395BTEXEXB	GC110395BTEXEXB	GC110395BTEXEXB	GC1103950HBPEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 3550	
Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	B. Ali
MS/MSD #:	951114506	951114506	951114506	951114506	951100707
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	1.4
Prepared Date:	11/3/95	11/3/95	11/3/95	11/3/95	11/3/95
Analyzed Date:	11/3/95	11/3/95	11/3/95	11/3/95	11/5/95
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP5A
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	25 mg/Kg
Result:	0.16	0.16	0.17	0.49	21
MS % Recovery:	80	80	85	82	78
Dup. Result:	0.16	0.16	0.17	0.49	23
MSD % Recov.:	80	80	85	82	86
RPD:	0.0	0.0	0.0	0.0	9.1
RPD Limit:	0-50	0-50	0-50	0-50	0-50
LCS #:	BLK110395	BLK110395	BLK110395	BLK110395	BLK110395
Prepared Date:	11/3/95	11/3/95	11/3/95	11/3/95	11/3/95
Analyzed Date:	11/3/95	11/3/95	11/3/95	11/3/95	11/5/95
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP5A
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	25 mg/Kg
LCS Result:	0.19	0.19	0.19	0.56	20
LCS % Recov.:	95	95	95	93	80
MS/MSD				·	
LCS		•			38-122
Control Limits	55-145	47-149	47-155	56-140	

SEQUOIA ANALYTICAL

Mike Gregory Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Fax co	py of	Lab	Rep	ort	and	COC to	Ch	evror	ı Co	ntac	:t: 🗓	ΪŃ	0			C	<u>hai</u>	η—c	<u>of-(</u>	<u>Cus</u>	<u>tody-Record</u> -
Chevron U. Co. BOX on Ramon, OAX (415)8	S.A. Inc. 5004 CA 94583	Cons Cons	ab Report and COC to Chevron Contact: No Chain-of-Cu Chevron Facility Number 9-0290 Chevron Facility Number 9-0290 Consultant Project Number 5280.01 Consultant Name Gettler-Ryan Inc. Address 6747 Sierra A. Suite J. Dublin, CA 94568 Project Contact (Name) Barbane Ailminsh (Phone) (510) 551-7555 (Fax Number) 551-7888 Signature Barbane Ailminshi Signature Barbane Ailminshi Signature Barbane Ailminshi Signature Barbane Ailminshi											min	5kî						
Sample Number	Lob Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	load (Yes or No)	BIEX + TPH GAS, MTBE (8020 + 8015)	7PH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromotics	Organica	anics	Metals Cd,Cr,Pb,Zn,Ni (ICAP or Ak)	med	. (95	1100		Confirm presence or absence of MTBE if it does not fall in the same range as TPHq & BTEX Romorko
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10-11		1			15:20				<u> </u>									·	ļ	ļ	hold
10-16		1			15:35														ļ	ļ	hold
11-2	2				11:53			×	X									<u></u>		ļ	
11-5	3	1			11:58			X	X												
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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568

Client Proj. ID: Sample Descript: SP-(A-D)Comp

Chevron 9-0290, Alameda

Sampled: 10/31/95

Matrix: SOLID

Analysis Method: 8015Mod/8020

Lab Number: 9511017-01

Received: 11/01/95 Extracted: 11/01/95 Analyzed: 11/02/95 Reported: 11/03/95

Attention: Barbara Sieminski QC Batch Number: GC110195BTEXEXB

Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte		ection Limit mg/Kg	Sample Resuits mg/Kg
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	•••••••••••••••••••••••••••••••••••••••	0.10 0.10 0.10 0.10	55 N.D. N.D. 0.61 1.9 Gas
Surrogates Trifluorotoluene	Cont 70	trol Limits % 130	% Recovery 118

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin CA 94568

Client Proj. ID: Chevron 9-0290, Alameda

Received: 11/01/95

Dublin, CA 94568 Attention: Barbara Sieminski Lab Proj. ID: 9511017

Reported: 11/03/95

LABORATORY NARRATIVE

For sample:
#1

the detection limit was raised by a factor of

SEQUOIA ANALYTICAL

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Chevron U.S.A. Inc. P.O. BOX 5004 P.O. BOX 5004 P.O. BOX 5004 Consultant Name Cettler - Lan. Inc. Politic Name Cettler Name Cettler - Lan. Inc. Politic Name Cettler	, .		Chev	ron Facili	ty Numb	or. 9	-029	0							Chevron	Contact	t (Name	M	ark	Hill	er		
Chevron U.S.A. Inc. P.O. BOX SOLO Son Ramon, O. 94583 FAX (415)842-9591 Fax (415)842	0 1 11.6		l	Early Address 1804 Webster Street, Hamea e								(Phone) /5(0): 842-8134											
Project Contact (Name) Date Contact (Name) Date Da			Сопа	Consultant Project Number 5280.01							_	Laborato	ry Nam	. Sec	PLLOI	b.			·				
Project Contact (Name) Date Dat			Cone	ultant Na	<u> Бе</u>	atter	- Kyan	ر ت	mc	_	11.	C 1 A.		- I	aborato	ne Balac	naa Murs	har of	172	<u>720</u>	<u> </u>		
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