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1:06 pm, Dec 31, 2008

Alameda County Environmental Health Aaron Costa Project Manager Marketing Business Unit Chevron Environmental Management Company 6111 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 543-2961 Fax (925) 543-2324 acosta@chevron.com

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

Re: Chevron Service Station No. 9-3600 2200 Telegraph Avenue Oakland, CA

I have reviewed the attached site conceptual model dated December 30, 2008.

I agree with the conclusions and recommendations presented in the referenced report. This information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This workplan was prepared by Conestoga Rovers Associates, upon who assistance and advice I have relied.

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

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

Sincerely,

Aaron Costa Project Manager

Attachment: SCM



5900 Hollis Street, Suite A, Emeryville, Calfornia 94608 Telephone: 510-420-0700 Facsimile: 510-420-9170 www.CRAworld.com

December 30, 2008

Reference No. 311965

Mr. Steven Plunkett Alameda County Environmental Health Services (ACEH) 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Site Conceptual Model Chevron Service Station 9-3600 2200 Telegraph Avenue. Oakland, California Fuel Leak Case No. RO0002435

Dear Mr. Plunkett:

Conestoga-Rovers & Associates is submitting the attached *Site Conceptual Model* (SCM) for the site referenced above on behalf of Chevron Environmental Management Company (Chevron). The SCM is in the format requested by ACEH. A work plan will be submitted under separate cover by January 31, 2009.

Please contact Charlotte Evans at (510) 420-3351 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Charlotte Evans

CE/doh/2 Enc.



Brando & Wille

Brandon S. Wilken, P.G. #7564

cc: Mr. Aaron Costa, Chevron Environmental Management Company

Chevron Branded Service Station 9-3600 - 2200 Telegraph Avenue, Oakland, CA Fuel Leak Case No. RO0002435

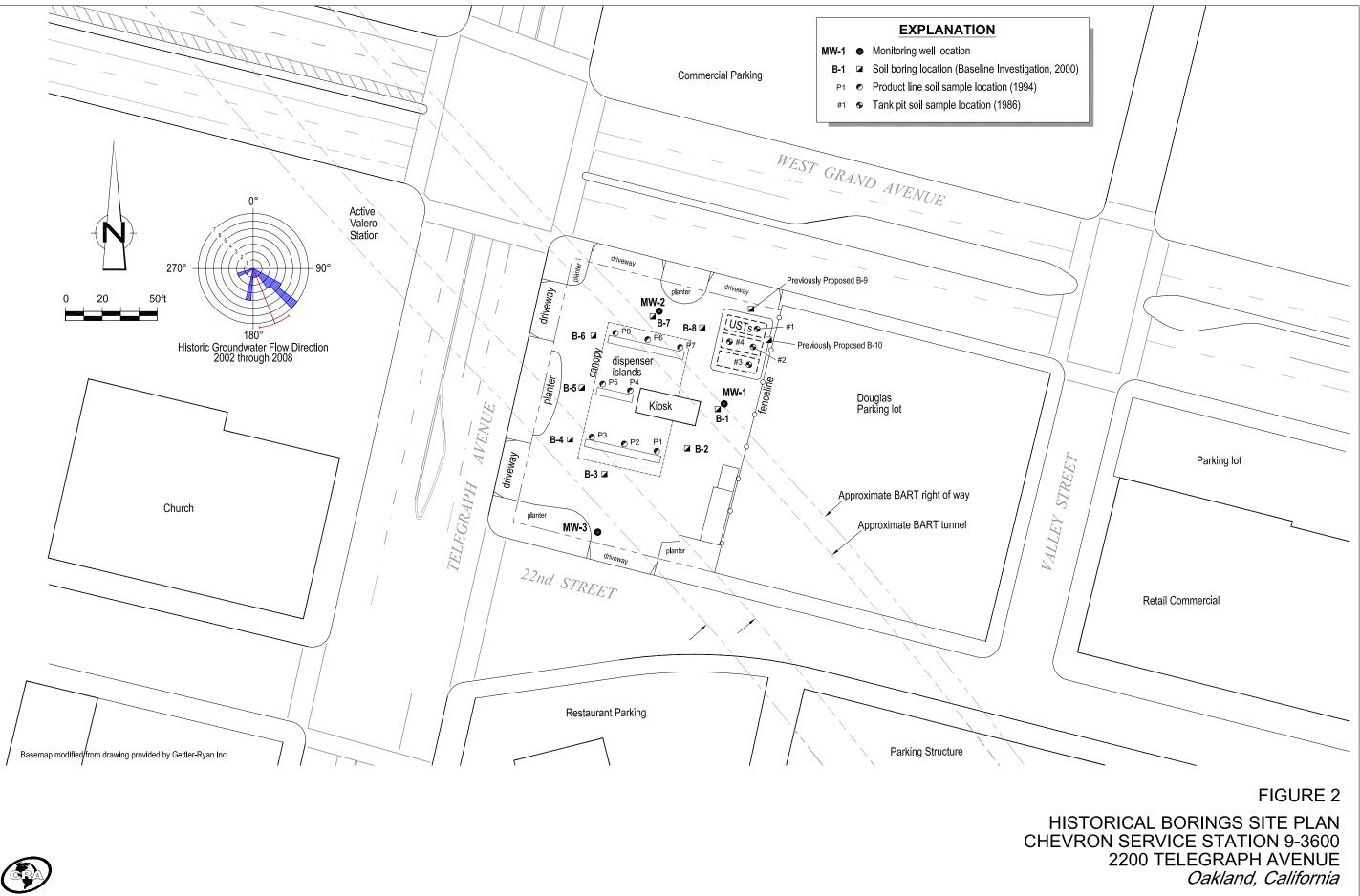
	Description	Cited Data Sources	Data Tables	Graphics	Data Gaps	Work Necessary to fill data gap	Comments
Site Setting	Site GeologyThe site is located on the East Bay Plain, approximately four miles east of San Francisco Bay. The site is located on the eastern flank of the San Francisco Basin, a broad Franciscan Complex depression. The basin's basement is overlain first by the Pleistocene Santa Clara Formation, then the Alameda Formation and lastly the Temescal Formation. These units consist of unconsolidated sediments varying in total thickness from approximately 300 to 1000 feet. The Santa Clara Formation consists primarily of alluvial fan deposits interspersed with lake, swamp, river channel and flood plain deposits. The overlying Alameda Formation was deposited in an estuary environment and consists of organic clays and alluvial deposits. The Temescal Formation is an alluvial deposit ranging from 1 to 50 feet thick that consists primarily of silts and clays overlying a basal gravel unit (RWQCB, 1999). Soil encountered beneath the site generally consists of silty and 			Expanded Site Plan Cross Section A- <u>A'</u> Cross Section B- <u>B'</u>			
	Groundwater Conditions The site is located within the Oakland sub-area of the East Bay Plain groundwater basin. This basin encompasses approximately 115 square miles and is bounded by San Pablo Bay to the north, Alameda County to the south, the Hayward Fault to the east and the San Francisco Bay to the west. Groundwater flow direction in the basin typically flows along surface topography. Groundwater in this basin is designated as beneficial for municipal and domestic water supply as indicated in the San Francisco Bay Basin Water Quality Control Plan prepared by the California Regional Water Quality Control Board – Region 2. However, current beneficial water use of groundwater in the basin is minimal due to readily available, high-quality imported surface water. The site's topography is relatively flat at an elevation of approximately 20 feet above mean sea level. Depth to groundwater has historically ranged from approximately 11 to 12 fbg. Groundwater flow direction is to the southeast at a gradient of 0.005. The nearest surface water is Lake Merritt, which is located approximately one mile east of the site. Lake Merritt drains into Oakland Inner Harbor.	1999 California Regional Water Quality Control Board [RWQCB], San Francisco Bay Region's East Bay Plain Ground Water Basin Beneficial Use Evaluation Report (www.swrcb.ca.gov/ rwqcb2/eastbayplain.shtml		Vicinity Map			
	Soil ConditionsIn 1986, Blaine Tech Services, Inc. (Blaine Tech) sampled the tank pit for installation of new tanks. The maximum total petroleum hydrocarbons as gasoline (TPHg) concentration was 44 milligrams per kilogram (mg/kg) at 2 fbg. No other constituents were analyzed in these samples.In 1994, Touchstone Developments collected soil samples from the bottom of product line trenches during a station remodel. Maximum TPHg concentration detected was 3.6 mg/kg. No benzene was detected in any of the ten soil samples collected during this investigation.In 2000, Gettler-Ryan Inc. (G-R) advanced 8 soil borings to depths ranging from 4 to 16 fbg. G-R encountered refusal at 4 fbg in boring B-8 and no soil samples from that boring were submitted for laboratory analysis. No TPHg, benzene, or methyl tertiary butyl ether (MTBE) was detected in any	Investigation	Cumulative Soil Analytical Data Table	Expanded Site Plan	In the September 11, 2008 letter, ACEH requested the tank closure report and any additional documents associated with the UST removal, soil excavation, disposal and confirmation soil sampling.	CRA is unable to find any tank closure report or any additional documents. In the Blaine Tech report, it states, "Sampling of re- excavated backfilled tank pit from which a tank had been previously removed in order to set a new tank in the same location."	

Description	Cited Data Sources	Data Tables	Graphics	Data Gaps	Work Necessary to fill data gap	Comments
of the 13 soil samples collected. An underground BART tunnel below the site prohibited boring depth greater than 10 fbg and power equipment use. Due to depth to groundwater greater than 10 fbg, no soil samples were collected from below the water table. In 2002 G-R advanced three soil borings to 20 fbg, collected soil and grab-groundwater samples and converted the borings into groundwater monitoring wells MW-1 through MW-3. The soil sample collected from MW-1 at 11.5 contained 3.2 mg/kg TPHg. No TPHg, benzene or MTBE was detected in any of the other 11 soil samples collected.					CRA will be contacting the Oakland Fire Dept. to determine if they have any other records of the previous USTs.	
Source Area Historically, TPHg concentrations in soil were greatest at 44 mg/kg from tank pit samples collected in 1986 on the eastern, downgradient side of the tank pit. During product piping removal, with the exception of 3.6 mg/kg TPHg, no TPHg or benzene were detected in the eight soil samples collected beneath the piping. Trace toluene, ethylbenzene, and xylenes concentrations were detected in four samples. Hydrocarbon concentrations were not detected in any of the soil samples collected during the 2000 baseline investigation. Soil encountered during the 2002 well installation contained a maximum TPHg concentration of 3.2 mg/kg. No benzene or MTBE was detected during this investigation. Hydrocarbon impacts in soil are minimal. During UST replacement in 1986, the grab-groundwater sample collected from groundwater encountered in the pit contained 480,000 micrograms per liter (μg/L) TPHg and 10,000 μg/L benzene. Since groundwater monitoring began in 2002, hydrocarbon concentrations have been greatest in MW-1 ranging historically from 480 μg/L to 2,100 μg/L. Groundwater in MW-2 and MW-3 seldom contains detectable hydrocarbon concentrations.		Cumulative Soil Analytical Data Table Cumulative Grab- Groundwater Analytical Data Table 4Q2008 G-R QMR	<u>Cross Section A-</u> <u>A'</u> <u>Cross Section B-</u> <u>B'</u> <u>1986 Blaine Tech</u> <u>Tank Pit</u> <u>Sampling Report</u>	In the September 11, 2008 letter ACEH requests additional source area characterization via three additional soil borings. During the 2000 baseline, G-R advanced 8 borings to a maximum of 16 fbg, but only collected samples to a maximum of 10 fbg. G-R hit refusal in two of the eight borings.	Advance downgradient soil borings and collect soil and grab- groundwater samples. A work plan for additional site assessment to be submitted under separate cover by January 31, 2009.	
Dissolved Plume/Groundwater Dissolved Plume/Groundwater beneath the site ranges from approximately 11 to 12 fbg and flows toward the southeast. During UST installations in 1986, a grab-groundwater sample was collected from groundwater encountered in the pit. The sample contained 480,000 µg/L TPHg and 10,000 µg/L benzene. In October 1992, Groundwater Technology, Inc. collected a groundwater sample from onsite vadose well VW-2-1. There is no record of its installation, location, depth or destruction. Hydrocarbon concentrations of 42,000 µg/L TPHg, 3,300 µg/L benzene, 7,100 µg/L toluene, 540 µg/ ethylbenzene, and 10,000 µg/L xylenes were detected in the grab-groundwater sample. More information is available in Groundwater Technology, Inc.'s November 20, 1992 <i>Monitoring and Sampling Report of Vadose Well 2-1</i> . In 2002, G-R installed three groundwater monitoring wells screened from 5 to 20 fbg. Groundwater beneath the site has been monitored on a quarterly basis. With the exception of trace MTBE concentrations from three monitoring events, no hydrocarbons have been detected in wells MW-2 and MW-3, both located roughly cross-gradient of the dispenser islands and up-gradient of the UST pit. Well MW-1, located adjacent to the UST pit and down-gradient of the dispenser islands contains the highest dissolved hydrocarbon concentrations. Maximum concentrations historically detected in this well have been: 2,100 µg/L TPHg, 9.2 µg/L benzene, and 9,800 µg/L MTBE (however this is considered an anomaly because the second highest concentration was 420 µg/L MTBE (however this is centered on MW-1 and defined to the north and south by MV-2 and MW-3, respectively. No benzene has been detected since the July 2004 sampling event.	4Q08 QMR <u>1986 Blaine Tech Tank Pit</u> <u>Sampling Report</u> <u>1992 Groundwater</u> <u>Technology Inc. Vadose</u> <u>Well Monitoring and</u> <u>Sampling Report</u> <u>2002 G-R Well Installation</u> <u>Report</u>	Cumulative Grab- Groundwater Analytical Data Table Monitoring Well Construction Details Table	Expanded Site Plan Trend Graphs Cross Section A- A' Cross Section B- B'	Down-gradient extent of TPHg and MTBE in groundwater undefined. No groundwater monitoring point down-gradient of MW-1.	Advance downgradient soil borings and collect soil and grab- groundwater samples. A work plan for additional site assessment to be submitted under separate cover by January 31, 2009.	

Page 2 of 4

Description	Cited Data Sources	Data Tables	Graphics	Data Gaps	Work Necessary to fill data gap	Comments
may be used within the right-of-way. No well can be installed deep enough in this area to regularly sample groundwater.						
Vapor 1986 Vadose Well Installation: During station reconstruction in 1986–1987, sixteen vadose wells equipped with vapor sensors were reportedly installed because BART tracks run directly beneath the site in an underground tunnel. No analytic data or report is available for these well installations. G-R concluded that the vapor wells and sensors were abandoned and removed from the site at an unknown date.		1992GroundwaterTechnologyInc. VadoseWellMonitoringandSamplingReport		None. There is a parking lot in the down-gradient direction.		
Remediation						
1986 Tank Pit Sampling: In October 1986, new gasoline USTs were installed in the location of the original tank pit. Blaine Tech collected soil and groundwater samples prior to installation of the new USTs. TPHg was detected in soil samples at a maximum concentration of 44 mg/kg at 2 fbg. TPHg and benzene were detected in the grab-groundwater sample collected in the tank pit at 480,000 μ g/L and 10,000 μ g/L, respectively. No toluene or xylenes were detected in this grab groundwater sample. Additional information on soil and groundwater sampling is available in Blaine Tech's account of site activities dated November 21 and 28, 1986.	<u>1986 Blaine Tech Tank Pit</u> Sampling Report	Cumulative Soil Analytical Data Table	<u>Expanded Site</u> <u>Plan</u>			
1994 Product Line Replacement: In July 1994, gasoline product lines were removed and replaced to up-grade the product delivery system. Excavation of approximately 100 cubic yards of soil was performed, and Touchstone Developments collected compliance soil samples P-1 through P-8 from product line trenches at depths between approximately 4.5 and 5.5 fbg. No benzene was detected in any sample. TPHg was detected in one sample at a concentration of 3.6 mg/kg at a depth of 5.5 fbg. Toluene, ethylbenzene, and xylenes were detected at maximum concentrations of 0.03 mg/kg, 0.012 mg/kg, and 1.3 mg/kg, respectively. Additional information is available in Touchstone Developments' August 9, 1994 <i>Product-Line Removal and Sampling Report</i> .	<u>1994 Touchstone Piping</u> Sampling Report					
Subsurface Investigations						
2000 Baseline Evaluation: In November 2000, GR advanced soil borings B-1 through B-8 to depths ranging from 5 to 16 fbg for a baseline evaluation for Chevron prior to property transfer. B-2 through B-6 were advanced above the BART underground tunnel and were therefore only advanced to 10 fbg in accordance with BART restrictions. No TPHg or BTEX were detected in soil collected from the borings. Grab-groundwater samples were collected from B-1 and B-7. Boring B-1, located adjacent to the UST pit, contained 29,000 μ g/L TPHg, 180 μ g/L benzene, 2,200 μ g/L ethylbenzene, 1,100 μ g/L xylenes, 730 μ g/L MTBE, and 380 μ g/L tert-butyl alcohol (TBA). No hydrocarbons were detected in B-7. Additional information is available in G-R's November 21, 2000 <i>Baseline Evaluation</i> .		Cumulative Soil Analytical Data Table	Expanded Site Plan			
2002 <i>Monitoring Well Installation:</i> In March 2002, GR installed groundwater monitor wells MW-1 through MW-3. No hydrocarbons were detected in soil samples from well borings MW-2 and MW-3. Only TPHg and ethylbenzene were detected in soil samples from MW-1 at concentrations of 3.2 mg/kg and 0.015 mg/kg, respectively, at a depth of 11.5 fbg. Additional information is available in G-R's May 30, 2002 <i>Monitoring Well Installation Report.</i>	2002 G-R Monitoring Well Installation Report					
Preferential Pathways						
CRA contacted Underground Service Alert and hired a private utility locator to locate and measure the depths of utilities near the site. The deepest utilities were storm sewer lines at approximately six fbg. Groundwater monitoring at the site has occurred from April 2002 to present. During this period, depth to groundwater has consistently been deeper than 10 fbg beneath the site.						

Description	Cited Data Sources	Data Tables	Graphics	Data Gaps	Work Necessary to fill data gap	Comments
CRA compiled well and soil boring data provided by California Department of Water Resources (DWR) into the attached well survey table. The nearest municipal and irrigation wells are approximately 3,800 and 2,500 feet from the site, respectively. Wells in DWR records with undefined uses are approximately 3,000 feet from the site.		DWR Well Survey Table	Site Plan with Utility Survey Data			
Nearby Release Sites						
There are three nearby, open environmental cases listed in the Alameda County Environmental Health Local Oversight Program's online database.			<u>Nearby Release</u> <u>Site Plan</u>			
Former Exxon No. 7-0235 (RO0000358) is an open UST fuel leak case located to the northeast (upgradient) of the subject Chevron site. The dissolved MTBE plume is not defined in the downgradient direction (toward the subject Chevron site). (Documents available at http://geotracker.swrcb.ca.gov)	2007 Environmental Resolutions Inc. Site Conceptual Model for former Exxon					
Dave's Station (RO0000359) north of the subject site across West Grand Avenue is an open UST fuel leak case. Dissolved total petroleum hydrocarbons as diesel (TPHd) and TPHg plumes have migrated from this site roughly towards the Douglas Parking lot adjacent to the subject Chevron site. (Documents available at http://geotracker.swrcb.ca.gov)	2008 Fugro West QMR for Dave's Station					
Benner Automotive (RO0002518) is roughly ¼-mile northeast of the site. ACEH has agreed that case closure is appropriate for this UST fuel leak case, currently an automotive repair business. (Documents available at http://geotracker.swrcb.ca.gov)	2008 ACEH Directive Letter for Benner Auto					
Drivers Dissolved MTBE concentrations remain in groundwater beneath the site and offsite migration is possible.				Down-gradient extent of TPHg and MTBE in groundwater undefined. No groundwater monitoring point down-gradient of MW-1.	Advance downgradient soil borings and collect soil and grab- groundwater samples.	
Proposed Workplan						
Additional site investigation work plan to advance downgradient soil borings and collect soil and grab-groundwater samples will be submitted under separate cover by January 31, 2009.						



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	Get	tier-	-Ryan	, Inc.	Log of Boring	g MW-1
2001	50T+ Ch	ovron S	arvice St	ation No. 9-3600	LOCATION: 2200 Telegraph Avenu	e, Oakland, California
	ROJECT N				CASING ELEVATION:	
	E STARTE				WL (ft. bgs): DATE:	TIME:
	FINISHE				WL (ft. bgs): 11.20 DATE: 03/12/02	TIME: 13:00
				- Limited Access Rig	TOTAL DEPTH: 20 feet	
_				rilling, Inc.	GEOLOGIST: Tony Mikaclch	
UEPTH (feet)	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG	T		DLOGIC DESCRIPTION	WELL DIAGRAM
	<u>0</u>		0,	Asphalt - 6 inches thick.		
1			SC	CLAYEY SAND (SC)		a 40 PVC
3 - 6 - 9 - 12	MW-1-8.5		CL		brown to dark brown (7.5YR 3/3), moist; dium sand, trace fine gravel. 5Y), moist; 90% clay, 10% fine sand, faint	ncn/
15-			SC	CLAYEY SAND (SC) - br fine sand, 40% clay, abu	rown (7.5YR 3/3), wet, medium dense; 60% Indant iron oxidation.	cap 2" matchine slotted PVC (0.020
18-	MW-1-18.1		CL	SANDY CLAY (CL) - bro mottling, wet; 70% clay,	own to green (2.5Y 5/3), trace gray 30% fine sand, abundant iron oxidation.	
	_ MW-1-20	╵┍╸ᠮ╯	1	Bottom of boring at 20	feet bgs.	
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	66,	L	31 -	nyai	n, Inc.	Log of Borin	y
PROJ	ECT: Ch	evro	on Se	rvice S	tation No. 9-3600	LOCATION: 2200 Telegraph Aven	ue, Oakland, Califor
GR P	ROJECT N	10. :	DGS	93600G	ACTI	CASING ELEVATION:	
DATE	E STARTE	D;	03/1	2/02		WL (ft. bgs): DATE:	TIME:
DATE	E FINISHE	ED:	03/1	12/02		WL (ft. bgs): 11.65 DATE: 03/12/02	TIME: 13:16
DRIL	LING MET	HOD	I: 8	in. HSA	- Limited Access Rig	TOTAL DEPTH: 20 feet	. <u></u>
DRIL	LING COM	PAN	Y: 6	Gregg D	prilling, Inc.	GEOLOGIST: Tony Mikacich	
DEPTH (feel)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEO	LOGIC DESCRIPTION	WELL DIAGF
					Asphalt - 8 inches thick.		╶╴╴┲╏╲┟┍━┓┢
3		-		CL	CLAY (CL) – black (N.2.5) fragments.), moist; 80% clay, 20% silt, trace shell	+- 2" blank schedule 40
6 - - 9	MW-2-8.5						
 12	M₩-2-11.6				Color changes to dark bro clay, 20% silt, 10% fine sa black organic matter.	own (2.5Y 4/3), moist, very plastic; 70% nd, abundant fron oxidation, abundant	cap Cap 111111111111111111111111111111111111
15 -	MW-2-18.5	5			Becomes wet.		2" me
- 18	-	_		SP	POORLY GRADED SAND (100% very fine sand, trac	SP) – light plive brown (2.5Y 5/3), wet; e iron oxidation.	
	MW-2-20		<u> </u>	a			<u> </u>
-		Ī			Bottom of boring at 20 fe	eet Dgs.	

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	Get	tie	r-1	Ryar	n, Inc.	Log of Boring	g MW-3
PRO	ECT: Ch	evror	Ser	vice St	ation No. 9-3600	LOCATION: 2200 Telegraph Aven	ue, Oakland, California
	ROJECT N		-			CASING ELEVATION:	
	E STARTE					WL (ft. bgs): DATE:	TIME:
	E FINISHE					WL (ft. bgs): 10.60 DATE: 03/12/02	TIME: 13:05
DRIL	LING MET	HOD:	8 i	n. HSA	- Limited Access Rig	TOTAL DEPTH: 20 feet	
ORIL		PANY	: G	regg Di	rilling, Inc.	GEOLOGIST: Tony Mikacich	
DEPTH (feet)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		LOGIC DESCRIPTION	
			77	CL	Asphalt - 6 inches thick. SANDY CLAY (CL) - brow	n (7.5YR 4/3) moist.	
	MW-3-8.5						
- - 12 -	MW-3-11.5			SP	sand, 5% silt, abundant ir matter.	SP) – brown (7.5YR 4/3), wet; 95% fine on oxidation, abundant black organic In (7.5YR 4/3), wet; 80% fine sand, 20% ion, trace gravel.	2" machine slotted PVC (0.020 Inch)
15 -	- MW-3-16.5		\cdot				2"
18-	- MW-3-20				Color changes to light oli mineralization. Bottom of boring at 20 fi	ve brown (2.5Y 5/3); trace white eet bgs.	
	1	1 1			_		

PROJECT: Chewron Service Station No. 9-3600 LOCATION: 2200 Tetegraph Avenue, Oekland, CA. GR PROJECT NO.: 346885.01 SURFACE ELEVATION: DATE: T.ME. DATE STARTED: #/08/00 ML (ft. bgs): DATE: T.ME. DATE FINISHED: #/08/00 ML (ft. bgs): DATE: TIME: DATE FINISHED: #/08/00 ML (ft. bgs): DATE: TIME: DRILLING METHOD: 31/2 in. Hand Auger TOTAL DEPTH: 15 feet DRILLING COMPANY: Bay Area Exploration GEOLOGIC DESCRIPTION REMAR E 300 GEOLOGIC DESCRIPTION REMAR GEOLOGIC DESCRIPTION REMAR CLAY EY SAND (SC) - brown to dark brown (7.5YR 3/3), noist: 50% fine to medium sand, 30% cley, 20% gravel (<1 incn diameter). Sting dark 3- L1 GEOLOGIC Clark (N2 5Y), moist: 60% cley, 10% fine sand, trace of sait, faint argenic cdor. Sting dark 9- 340 Still TY CLAY (CL) - brown to green (2.5Y 5/3), met: 60% clay, 20% sil, 20% gravel (clinch dameter). Grad fine sand, trace of sill, strong hydrocarbon coor. 12- 850 CLAY (CL) - brown to green (2.5Y 5/3), met: 60% clay, 20% sill, 20% fine sand, trace of fine sand. Grab fine sand. <t< th=""><th>DECT: Chevron Service Station No. 9-3600 LOCATION: 2200 Telegraph Avenue, Opkland, CA. PROJECT ND.: 340865.01 SURPACE ELEVATION: PROJECT ND.: 340865.01 NL (HL bgs): DATE: TE FINISHED: IV/08/00 NL (HL bgs): DATE: TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger GEOLOGIST: Tony Mikacich TILING METHOD: 3 //2 in: Hand Auger GEOLOGIC DESCRIPTION REMARK TILING METHOD: 5 //2 in: Hand Auger GEOLOGIC DESCRIPTION REMARK TILING METHOD: 5 //2 in: Geodes thick. GEOLOGIC DESCRIPTION REMARK TILING METHOD: 5 //2 in: Geodes thick. Clarter SAND (SC) - brown to derk brown (7.5YR 3/3), moist: 50% fine Sin media Geoder Changes to Cark Work (V 5 YR 3/3), Decones 70% fine to medum Secone cares Sin media Secone Changes to Cark (VC1) - brown (V 5 YR 3/3), Decones 70% fine to medum Secone cares Geoder Changes to Cark (VC1) - brown (V 5 YR 3/3), Decones 70% fine to medum</th><th></th><th>G</th><th>et</th><th>tie</th><th>r—R</th><th>iyan</th><th>, Inc.</th><th>Log of Borin</th><th>ng B-</th><th>ł</th></t<>	DECT: Chevron Service Station No. 9-3600 LOCATION: 2200 Telegraph Avenue, Opkland, CA. PROJECT ND.: 340865.01 SURPACE ELEVATION: PROJECT ND.: 340865.01 NL (HL bgs): DATE: TE FINISHED: IV/08/00 NL (HL bgs): DATE: TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger TOTAL DEPTH: //5 feet TILING METHOD: 3 //2 in: Hand Auger GEOLOGIST: Tony Mikacich TILING METHOD: 3 //2 in: Hand Auger GEOLOGIC DESCRIPTION REMARK TILING METHOD: 5 //2 in: Hand Auger GEOLOGIC DESCRIPTION REMARK TILING METHOD: 5 //2 in: Geodes thick. GEOLOGIC DESCRIPTION REMARK TILING METHOD: 5 //2 in: Geodes thick. Clarter SAND (SC) - brown to derk brown (7.5YR 3/3), moist: 50% fine Sin media Geoder Changes to Cark Work (V 5 YR 3/3), Decones 70% fine to medum Secone cares Sin media Secone Changes to Cark (VC1) - brown (V 5 YR 3/3), Decones 70% fine to medum Secone cares Geoder Changes to Cark (VC1) - brown (V 5 YR 3/3), Decones 70% fine to medum		G	et	tie	r—R	iyan	, Inc.	Log of Borin	ng B-	ł
GR PROJECT NO.: 346085.01 SURFACE ELL/VATION: THE: TIME: DATE STARTED: 11/08/00 NL (ft. bgs): DATE: TIME: DATE FINISHED: 11/08/00 NL (ft. bgs): DATE: TIME: DRILLING METHOD: 3 1/2 in. Hand Auger TOTAL DEPTH: 15 feet DRILLING COMPANY: Bay Area Exploration GEOLOGIST: Tony Mikacich DRILLING COMPANY: Bay Area Exploration GEOLOGIST: Tony Mikacich REMAR SC CLAYEY SAND (SC) - brown to dark brown (7.5YR 3/3), noist: 50% fine Sc GR 21 SC CLAYEY SAND (SC) - brown to dark brown (7.5YR 3/3), noist: 50% fine Sc 3- 11 Sec (Clay, trace of gravel (<1 inch dameter). Sc (Clay, trace of gravel (<1 inch dameter). 3- 11 Color changes to cark brown (7.5YR 3/3), becomes 70% fine to medum Sc (Clay, trace of gravel (<1 inch dameter). 3- 11 Color changes to cark brown (7.5YR 3/3), becomes 70% fine sand, trace of sit, fail, fail orgenic cdor. Sc (Clay, 102) - brown (7.5YR 3/3), becomes 70% fine sand, trace of sit, fail, fail orgenic cdor. 3- 0 Clay (CLAY (CL) - brown (7.5YR 3/3), becomes 70% fine sand, trace of sit, fail, strong hydrocarbon cdor. 3- 0 Clay (CLAY (CL) - brown (7.5YR 3/3), becomes 70% fine sand, trace of sit, fail, strong hydrocarbon cdor.	PROJECT NO.: 348885.01 SUPARLE ELEVATION: T.ME. TE STARTED: #U.(ft.bgs): DATE: T.ME. TILING METHOD: 3 1/2 in. Hand Auger TOTAL DEPTH: 15 feet TILING METHOD: 3 1/2 in. Hand Auger GEOLOGIST: Tory Mikacich ILING COMPANY: Bay Area Exploration GEOLOGIST: Tory Mikacich III.ING METHOD: SC CLAY (III.) GEOLOGIST: GEOLOGIST: III.I								LOCATION: 2200 Telegraph Avenu	ue, Oakla	ina, CA.
DATE STARTED: IV/08/00 ML (RL 098): DATE: TIME: DATE FINISHED: IV/08/00 ML (RL 098): DATE: TIME: DRILLING WETHOD: 31/2 in. Hand Auger TOTAL DEPTH: 15 feet DRILING COMPANY: Bay Area Exploration GEOLOGIST: Tony MRacich REMAR Bay Area Exploration GEOLOGIC DESCRIPTION REMAR EGB Bay Starter Geologic DESCRIPTION REMAR SC LAREY SAND [SC] - brown to date brown (7.5YR 3/3), noist: 50% fine Starter company Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium Starter company With media 6 2.1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium Starter company 3 L1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium Starter company 6 2.1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium Starter company 3 CLARY (CL) - brown if 7.5YR 3/3) motiled with gray to green; Starter color 9 340 Starter color Starter color 12 500 CLARY (CL) - brown if 7.5YR 3/3) motiled with gray to green; Starter color 12 500 Starter color Starter color Stareage of fine sand, trace of fine sand, trace of fine san	TE STARTED: IV/08/00 NL (II: togs): DATE: TE FINISHED: IV/08/00 ML (II: togs): DATE: TILING METHOD: 31/2 in: Hand Auger TOTAL DEPTH: 15 feet TILING METHOD: 31/2 in: Hand Auger TOTAL DEPTH: 15 feet TILING OMPANY: Bay Area Exploration GEOLOGIST: Tony MRacich Reveal SC ASPHALT - 6 Incnes Inlock. Reveal Go D D D D D D D D D D D D D D D D D D D	PROJE		Che T NC	N ·	3488	102 910 195.01				
DATE FINISHED: In/06/00 M. (II. togs): DATE ORILLING METHOD: 3 //2 in. Hand Auger TOTAL DEFTH: 15 feet ORILLING COMPANY: Bay Aree Exploration GEOLOGIST: Tony Mikacich ORILLING COMPANY: Bay Aree Exploration GEOLOGIST: Tony Mikacich Image: State of the st	TE FINISHED: IV/08/00 ML (II: 093/ TOTAL DEPTH: IS intermining the								AL (IL UGU)		
ORTLETING WE HOLD: 3 // 2 // 1 / APO JOSC: DRILLING COMPANY: Bay Area Exploration GE GEOLOGIST: Tory Mikacich REMAR GE GEOLOGIST: Tory Mikacich REMAR GEOLOGIST: Tory Mikacich REMAR GEOLOGIC DESCRIPTION GEOLOGIC DESCRIPTION GEOLOGIC DESCRIPTION GEOLOGIC DESCRIPTION GEOLOGIC DESCRIPTION GEOLOGIC DESCRIPTION GEOLOGIC DESCRIPTION <td>ILLING COMPANY: Bay Area Exploration GEOLOGIST: Tony Mikacich ILLING COMPANY: Bay Area Exploration GEOLOGIST: Tony Mikacich ILLING: Still Stong Not Stone GEOLOGIST: Still Stone GEOLOGIST: ILLING: Color changes to dark brown (7.5YR 3/3), becomes 70% time to medium Stone Bay Area Exploration Stone Bay Area Exploration ILING: Color changes to dark brown (7.5YR 3/3), becomes 70% time to medium Stone Bay Area Exploration Stone Bay Area Exploration ILING: Color ch</td> <td>DATE</td> <td>FINI</td> <td>SHEI</td> <td>D: /</td> <td>1/08,</td> <td>/00</td> <td></td> <td>HL (IC Dgon</td> <td></td> <td></td>	ILLING COMPANY: Bay Area Exploration GEOLOGIST: Tony Mikacich ILLING: Still Stong Not Stone GEOLOGIST: Still Stone GEOLOGIST: ILLING: Color changes to dark brown (7.5YR 3/3), becomes 70% time to medium Stone Bay Area Exploration Stone Bay Area Exploration ILING: Color changes to dark brown (7.5YR 3/3), becomes 70% time to medium Stone Bay Area Exploration Stone Bay Area Exploration ILING: Color ch	DATE	FINI	SHEI	D: /	1/08,	/00		HL (IC Dgon		
DRILLING COMPANY: Bay Area Exploration REMAR Image: State of the	11LING COMPANY: Bay Area Exploration Reveal 11LING COMPANY: String String Company to determine the transmitter of the to medium stand, 30% cley, 20% gravel (41 inch diameter). String Company to determine the transmitter of still, faint organic cdor. 11LING Color changes to dark brown (7.5YR 3/3), becomes 70% fine send, trace of still, faint organic cdor. String String String String String trace of fine send, trace of still, strong hydrocarbon coor. 12 Bottom of boring at 15 feet bgs. Clay (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% stil, 20% still cod to theat 12	DRILL	ING M	1ETH	100:	3 1,	/2 in. H	and Auger			
ASPHALT - 6 Inches Inlick. SC CLAYEY SAND (SC) - brown to derk brown (7.5YR 3/3), moist: 50% fine to medium sand. 30% cley, 20% gravel (<1 inch diameter).	ASPHALT - 6 Inches filtex. CLAYEY SAND (SC) - brown to derk brown (7.5YR 3/3), moist: 50% fine to medium sand, 30% cley, 20% gravel (<1 Inch diameter). Science hanges to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% cley, trace of gravel (<1 Inch diameter). CL Clor changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% cley, trace of gravel (<1 Inch diameter). CL Clor changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% cley, trace of gravel (<1 Inch diameter). CL T (CL) - black (N2 5Y), moist: 80% cley, 10% fine send, trace of sitt, faint organic cdor. 9- 340 12- 850 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% cley, 20% sit, 20% fine sand, trace of sill, strong hydrocarbon coor. 13- 15- Bottom of boring at 15 feet bgs.	DRILL	ING (COMP		: <i>Bl</i>	By Area	Exploration			
ASPHALT - 6 Inches INIck. SC CLAYEY SAND (SC) - brown to dark brown (7.5YR 3/3), moist: 50% fine to medium sand. 30% cley, 20% gravel (<1 inch diameter).	ASPHALT - 6 Inches filtex. CLAYEY SAND (SC) - brown to derk brown (7.5YR 3/3), moist: 50% fine to medium sand, 30% cley, 20% gravel (<1 Inch diameter). Science hanges to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% cley, trace of gravel (<1 Inch diameter). CL Clor changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% cley, trace of gravel (<1 Inch diameter). CL Clor changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% cley, trace of gravel (<1 Inch diameter). CL T (CL) - black (N2 5Y), moist: 80% cley, 10% fine send, trace of sitt, faint organic cdor. 9- 340 12- 850 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% cley, 20% sit, 20% fine sand, trace of sill, strong hydrocarbon coor. 13- 15- Bottom of boring at 15 feet bgs.	EPTH feel)	(nga) (1	LOWS/FT. *	AMPLE INT.	IRAPHIC LOG	SOIL CLASS	GE	OLOGIC DESCRIPTION		REMARKS
3- L1 6- 2.1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% Glay, trace of gravel (<1 inch diameter).	3 1.1 6 2.1 C. Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium send, 30% clay, trace of gravel (<1 inch dismeter). 2.8 C.LAY (CL) - brack (N2 5Y), moist: 90% clay, 10% fine send, trace of sitt, teht organic cdor. SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% sitt, abundent ron oxide staining, trace of fine send. 639 12 650 12 650 15 Bottom of boring at 15 feet bgs. 51 15 Bottom of boring at 15 feet bgs.	<u> </u>	٦	8	^o	9	07	ASPHALT - 6 Inches thick.	- 4- 4-4 brown (7 5YR 3/3), moist: 50%	fine	
3- 1.1 6- 2.1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of gravel (<1 inch diameter). CLAY (CL) - black (NZ SY), molst: 90% clay, 10% fine sand, trace of sitt, feint organic cdor. 9- 3-40 	3- 11 6- 2.1 Color changes to dark brown (7.5YR 3/3), becomes 70% time to medium sand, 30% clay, trace of gravel (c1 inch diameter). 2.8 CLAY (CL) - black (N2 5Y), moist; 90% clay, t0% fine sand, trace of sitt, faint organic cdor. 9- SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist; 80% clay, 20% sit, abundant iron oxide staining, trace of fine sand. 839 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sit, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon odor. 12- 650 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sit, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon odor. 15- Bottom of boring at 15 feet bgs.						SC	to medium sand, 30% clay,	20% gravel (<1 inch diameter).		
3- L1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of gravel (<1 inch dismeter).	3- 1.1 6- 2.1 Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of gravel (<1 inch diameter).										Spring backfille with neat cemer
11 Color changes to dark brown (7.5YR 3/3), becomes 70% tine to medium sand, 30% clay, trace of gravel (<1 inch diameter),	11 6-2.1 CL Color changes to dark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of grave! (<1 inch diameter).										ground surface.
6 2.1 Color changes to Cark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of grave! (<1 inch diameter).	6 2.1 Color changes to Cark brown (7.5YR 3/3), becomes 70% fine to medium sand, 30% clay, trace of gravel (<1 inch diametar). CLAY (CL) - black (NE SY), molist: 60% clay, 10% fine sand, trace of sitt, faint organic color. 340 SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% sitt, abundant ron oxide staining, trace of fine sand. 639 12 850 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% sit, 20% fine sand, trace of sitt, strong hydrocarbon coor. 15 Bottom of boring at 15 feet bgs.	3-	1,1		L						
2.8 CLAY (CL) - black (N2 SY), moist: 90% clay, 10% time said, index of sitt, faint organic cdor. 9- SitLTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% sitt, abundant iron oxide staining, trace of fine sand. 830 CLAY (CL) - brown to green (2.5Y 6/3), wet: 80% clay, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon ocor. 12- 850 15- Bottom of boring at 15 feet bgs.	2.8 CLAY (CL) - black (N2 5Y), moist: 90% clay, for the same, index of silt, faint organic cdor. 9- 340 340 SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 90% clay, 20% silt, abundant iron oxide staining, trace of fine sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% silt, 20% fine sand, trace of silt, strong hydrocarbon odor. 12- 850 12- 850 13- Bottom of boring at 15 feet bgs.										
2.8 CLAY (CL) - black (N2 SY), moist: 90% clay, 10% time said, index of sitt, faint organic cdor. 9- SitLTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% sitt, abundant iron oxide staining, trace of fine sand. 830 CLAY (CL) - brown to green (2.5Y 6/3), wet: 80% clay, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon ocor. 12- 850 15- Bottom of boring at 15 feet bgs.	2.8 CLAY (CL) - black (N2 5Y), moist: 90% clay, for the same, index of silt, faint organic cdor. 9- 340 340 SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 90% clay, 20% silt, abundant iron oxide staining, trace of fine sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% silt, 20% fine sand, trace of silt, strong hydrocarbon odor. 12- 850 12- 850 13- Bottom of boring at 15 feet bgs.						3				
2.8 CLAY (CL) - black (N2 SY), moist: 90% clay, 10% the send, index of silt, faint organic odor. 9- 340 340 SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% silt, abundant iron oxide staining, trace of fine sand. 12- 850 12- 850 15- . Bottom of boring at 15 feet bgs.	2.8 CLAY (CL) - black (N2 5Y), moist: 90% clay, for the same, index of silt, faint organic cdor. 9- 340 340 SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 90% clay, 20% silt, abundant iron oxide staining, trace of fine sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% silt, 20% fine sand, trace of silt, strong hydrocarbon odor. 12- 850 12- 850 13- Bottom of boring at 15 feet bgs.	1					1			dium	
2.8 CLAY (CL) - black (N2 SY), moist: 90% clay, 10% time said, index of sitt, faint organic cdor. 9- SitLTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% sitt, abundant iron oxide staining, trace of fine sand. 830 CLAY (CL) - brown to green (2.5Y 6/3), wet: 80% clay, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon ocor. 12- 850 15- Bottom of boring at 15 feet bgs.	2.8 CLAY (CL) - black (N2 5Y), moist: 90% clay, for the same, index of silt, faint organic cdor. 9- 340 340 SILTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 90% clay, 20% silt, abundant iron oxide staining, trace of fine sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% silt, 20% fine sand, trace of silt, strong hydrocarbon odor. 12- 850 12- 850 13- Bottom of boring at 15 feet bgs.	6-	2.1					Color changes to dark bro	own (7.5YR 3/3), becomes 70% time to men gravel (<1 inch diameter).		1
9- 340 639 12- 850 15- Bottom of boring at 15 feet bgs. Bottom of boring at 15 feet bgs. StLTY CLAY (CL) - brown (7.5YR 3/3) mottled with gray to green; moist: 80% clay, 20% sil, abundant iron oxide staining, trace of fine sand. CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% sil, 20% Sil, 20% Sil	9 340 340 839 12 850 15 Bottom of boring at 15 feet bgs. StLTY CLAY (CL) - brown (7.5YR 3/3) motiled with gray to green; moist: 80% clay, 20% sit, access of fine sand. CLAY (CL) - brown to green (2.5Y 5/3), wet: 60% clay, 20% sit, 20% State ground Sandi Bottom of boring at 15 feet bgs. State ground Sandi San	-	2.8			¥//	3	$l \cap AY (CI) = black (N2.5)$	Y), moist: 90% clay, 10% fine sand, trace o	T	
340 noist: 80% clay, 20% sit, abundant non-oxec etaining, about any same same same same same same same same	340 anoist: 80% clay, 20% sin, addition for once ordining, does not sing a set of sing sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sin, 20% fine sand, trace of silt, strong hydrocarbon odor. 850 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sin, 20% fine sand, trace of silt, strong hydrocarbon odor. 915 850 Bottom of boring at 15 feet bgs.					\mathbb{V}	1				
340 noist: 80% clay, 20% sit, abundant non-oxec etaining, about any same same same same same same same same	340 anoist: 80% clay, 20% sin, addition for once ordining, does not sing a set of sing sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sin, 20% fine sand, trace of silt, strong hydrocarbon odor. 850 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sin, 20% fine sand, trace of silt, strong hydrocarbon odor. 915 850 Bottom of boring at 15 feet bgs.		1			V	3				_
340 sand. 639 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon odor. 12-850 CLAY (CL) - brown to green (2.5Y 5/3), wet; 60% clay, 20% sit, 20% fine sand, trace of silt, strong hydrocarbon odor. 15- Bottom of boring at 15 feet bgs.	340 sand. 639 CLAY (CL) - brown to green (2.6Y 6/3), wet; 60% clay, 20% sit, 20% fine sand, trace of sit, strong hydrocarbon odor. 850 Grac ground sample B-1-1/03/0 collected a fest. 15- Bottom of boring at 15 feet bgs.	9-			-	V	3	SILTY CLAY (CL) - brow	n (7.5YR 3/3) mottled with gray to green; abundant iron oxide staining, trace of find	8	
12- 850 15- Bottom of boring at 15 feet bgs.	12- 850 12- 850 15- Bottom of boring at 15 feet bgs.		340			V	2	sand.			
12- 850 12- 850 15- Eottom of boring at 15 feet bgs.	12- 850 12- 850 15- Bottom of boring at 15 feet bgs.		A20			V	2				
12 850 fine sand, trace of slit, strong hydrocarbon count Grauple sample B-1-11/03 collected feat. 15- Bottom of boring at 15 feet bgs.	12 850 Fine sand, trace of slit, strong hydrocarbon count Grad picks 15 Bottom of boring at 15 feet bgs.	1	1 038	1		V	3		IN EVE 121 WALL ANY AVAN SAY STI 2	0%	_
15 Bottom of boring at 15 feet bgs.	15 Bottom of boring at 15 feet bgs.	12-	1				8	CLAY (CL) - brown to ge fine sand, trace of silt, s	strong hydrocarbon odor.		Grap groundw
15 Bottom of boring at 15 feet bgs.	15 Bottom of boring at 15 feet bgs.		- 850	'		V	8				B-1-11/03/00 collected at
							8				
			1			V	1				
		15	-			4	4	Bottom of boring at 15 f	eet bgs.		
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18-	18-1 -		1			4					
		18	4			·					
			1			1					

Gettler-Rya	n, Inc.	Log of Boring B-	
		LCCATION: 2200 Telegraph Avenue, Oak	iand, CA.
ROJECT: Chevron Service S		SURFACE ELEVATION:	
R PROJECT NO. : 348895.01		WL (ft. bgs): DATE: TIME	
ATE STARTED: 11/08/00		WL (ft. bgs): DATE: TIME	
ATE FINISHED: 11/08/00 RILLING METHOD: 3 1/2 in.	Hand Auger	TOTAL DEPTH: 10 feet	
RILLING COMPANY: Boy Ar	ea Exploration	GEOLOGIST: Tony Mikacich	-
pm) FI. * IC LOG		GEOLOGIC DESCRIPTION	REMARKS
(feet) PID (p BLOWS SAMPLU GRAPH GRAPH SOIL (e thick	
SM	sand, 30% sirt, nyun	- olive brown (2.5Y 4/4). noist; /0% tine to inequality ocarbon odor.	Boring Dackfilled with neat cement from the bottom 10
3- 1.6	sand, 30% clay.) - clive brown (2.5Y 4/4), moist: 70% fine to medium - brown (7.5YR 4/3), moist: 80% fine to medium sand,	ground surface.
	20 % silt.		
9	medium sand, tract hydrocarbon odor.		
23.8	Bottom of boring :	at 10 feet bgs.	
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21			Page

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	G	et	le	r-F	lyan,	Inc.	Log of Boring B-	
	OT.	CL -		Cor	lice Sta	tion No. 9-3600	LOCATION: 2200 Telegraph Avenue, Oak	land, CA.
					102 010 195.01		SURFACE ELEVATION:	
							WL (ft. bgs): DATE: TIME	
	STAP						WL (ft. bgs): DATE: TIME	
	FINI					nd Auger	TOTAL DEPTH: 5.5 feet	
RIL	ING N			3 1	12 HI. HO	nd Auger	GEOLOGIST: Tony Mikacich	
RIL	LING	UMP	ANT		ay AICO	Exploration		
(feet)	PID (ppm)	BLOMS/FT. *	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS
<u>, </u>	<u>.</u>		0,	0		ASPHALT - 8 inches 1	Ihick.	-
-					SM	20% siit.	brown (7.5YR 4/3), moist; 80% fine to medium sand,	Boring backfilled with heat cement from the bottom to ground surface.
3-	0.4				SP	medium sand, no nyar		
6-			_			Bottom of boring at I	5.5 feet bgs.	
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-	G	ett	lei	- A	yan,	Inc.	Log of Boring B-	
					ine Clat	ion No. 9-3600	LOCATION: 2200 Telegraph Avenue, Oak	and, CA.
ROJE	CT:	Che	ron	Serv	ICE Stat	ion No. 9–3600	SURFACE ELEVATION:	
	GJECT						WL (ft. bgs): DATE: TIME	
ATE	STAR	TED	<u> </u>	108/	00		WL (ft. bgs): DATE: TIME	
ATE	FINIS	HEU	<u>; 1</u>	1/08/		nd Auger	TOTAL DEPTH: 10 feet	
RILL	ING M	EIR		5 11	2 11. 110	nd Auger Exploration	GEOLOGIST: Tony Mikacich	1
KILL	INGC	UMP						
(feet)	(mqq) 019	BLOWS/FT. *	SAMPLE INT.	GRAPHIC LOG	soil class	G	EOLOGIC DESCRIPTION	REMARKS
5	E	ā	<u></u>	0	6	ASPHALT - 8 inches thic	K	-
- - - -					SM	SILTY SAND (SM) - brow 30% slit.	(7.5YR 4/3), moist; 70% fine to mealum sand,	Soring backfilled with reat cement from the bottom to ground surface.
3-					SP	fragments.	(SP) - brown (7.5YR 4/3), moist; 100% fine to oarse sand, trace of clay, trace of shell	
6-	0.8					Becomes 100% fine to m	edium sand, 20% gravel.	
9-					SM/SC	SILTY AND CLAYEY SA 80% fine to medium san Bottom of boring at 10		-
12.	-					Bottom of Doring at 10		
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	G	eti	:I C I	-R	yan,	Inc.	Log of Boring E	5-5
						ion No. 9-3800	LOCATION: 2200 Telegreph Avenue, Oa	akland. CA.
							SURFACE ELEVATION:	
	OJEC						WL (ft. bgs): DATE: TIN	1E:
	STAR						WL (ft. bgs): DATE: TI	4E:
	FINIS					nd Auger	TOTAL DEPTH: 10 feet	
RILL	ING F	OMP	ANY	RA	V Area	Exploration	GEOLOGIST: Tony Mikacich	· · · · · · · · · · · · · · · · · · ·
					CLASS		GEOLOGIC DESCRIPTION	REMARKS
(feet)	PID (ppm)	BLOWS/FT. *	SAMPLE INT.	BRAPHIC LOG	SOIL CL			
<u>`</u> +	-	_ <u></u>				ASPHALT - 6 inches this		
3	15		-		SC	CLAYEY SAND WITH SIL fine to medium sand, 303	T (SC) – olive brown (2.5¥ 4/4), moist; 80% % clay, 10% silt.	Boring Deckfilled with neat cement from the pottom to ground surface
3-	1.3				SP	POORLY GRADED SAND	(SP) - brown (7.5YR 4/3), moist; 90% fine to	
6-	1.0						ark brown (7.5YR 3/3) mottled with brown, moist;	
-	0.9				CL	80% clay, 20% sand, no) (SP) - brown (7.5YR 4/3), molst; 100% fine to	
9—					SP	medium sand, trace of	SICE II GUILCING.	
-	0.8					Bottom of boring at 10	ifeet bgs.	
12-			.					
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	4							
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	G	ett	ler-	Rya	n, Inc.	Log of Boring B-6	
PROJECT: Chevron Service Station No. 9-3600						DO LOCATION: 2200 Telegraph Avenue, Oakland, CA.	
OJE	CT:	Chev	ron S	ervice	Station No. 9-5000	SURFACE ELEVATION:	
				6895.0	Л.	WL (f1. bgs): DATE: TIME:	
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TE	FINIS	HED	: 11/0	2 1/2 /5	Hend Auger	TOTAL DEPTH: 10 feet	
ILL	ING M	EIH		Doy A	. Hand Auger rea Exploration	GEOLOGIST: Tony Mikacich	_
						GEOLOGIC DESCRIPTION REMARK	5
(feet)	(mqq) (II4	BLOWS/FT.	SAMPLE INT	SOIL CLASS			
릐	5	ā	S	5 0		- 6 inches thick.	
3-				SI	P POORLY GRA sand, trace	ADED SAND (SP) - brown (7.5YR 4/3), moist; 100% fine e of shell fragments. Ecting backfit with neat cem from the bott ground surface	ent 5m 10
	0.3					•	
9-					Bottom of	if boring at 10 feet bgs.	
15	5-1 .		-				
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Gettler-Ryan, Inc. Log of Borning D T IOJECT: Chevron Service Station No. 9-3600 LOCATION: 2200 Telegraph Avenue, Oakland, CA. A PROJECT NO. : 346895.01 SURFACE ELEVATION: A PROJECT NO. : 346895.01 WIL (ft. bgs): DATE: ATE STARTED: 10/06/00 WIL (ft. bgs): DATE: TIME: ATE STARTED: 10/06/00 WIL (ft. bgs): DATE: TIME: ATE STARTED: 10/06/00 WIL (ft. bgs): DATE: TIME: RILLING METHOD: 3 1/2 in. Hand Auger TOTAL DEPTH: If feel RILLING COMPANY: Bay Area Exploration GEOLOGIC DESCRIPTION REMARKS W G G G SUP KG GS G ASPHALT - 6 Inches thick. SUP KG G G G ASPHALT - 6 Inches thick. SUP KG GEOLOGIC DESCRIPTION REMARKS G G G ASPHALT - 6 Inches thick. SUP KG GEOLOGIC DESCRIPTION Bor ng Doct had wir test cetter G G G ASPHALT - 6 Inches thick. SUP KG SUP KG GEOLOGIC DESCRIPTION Bor ng Doct had wir test cetter G G G ASPHALT - 6 Inches thick. SUP KG SUP KG GEOLOGIC DESCRIPTION Bor ng Doct had wir test cetter G G G ASPHALT - 6 Inches thick. SUP KG SUP KG SUP KG SUP KG SUP KG G G
OUECT NO. 3408095.01 SURFACE ELEVATION: ATE STARTED: 11/08/00 NL (ft.bgs): DATE: TIME: ATE STARTED: 11/08/00 ML (ft.bgs): DATE: TIME: ATE FINISHED: 11/08/00 ML (ft.bgs): DATE: TONY MIKECICH RELLING COMPANY: Bay Area Exploration GEOLOGIC DESCRIPTION REMARKS
3 PROJECT NO. 1: J40093.01 NL (rt. bgs): DATE: TIME: ATE STARTED: II/08/00 NL (rt. bgs): DATE: TIME: ATE FINISHED: II/08/00 NL (rt. bgs): DATE: TIME: RILLING METHOD: 3 1/2 in. Hand Auger TOTAL DEPTH: I8 feet RILLING METHOD: 3 1/2 in. Hand Auger TOTAL DEPTH: I8 feet RILLING COMPANY: Bay Area Exploration GEOLOGIC DESCRIPTION RILLING GUMPANY: Bay Area Exploration GEOLOGIC DESCRIPTION REMARKS GEOLOGIC DESCRIPTION REMARK GEOLOGIC DESCRIPTI
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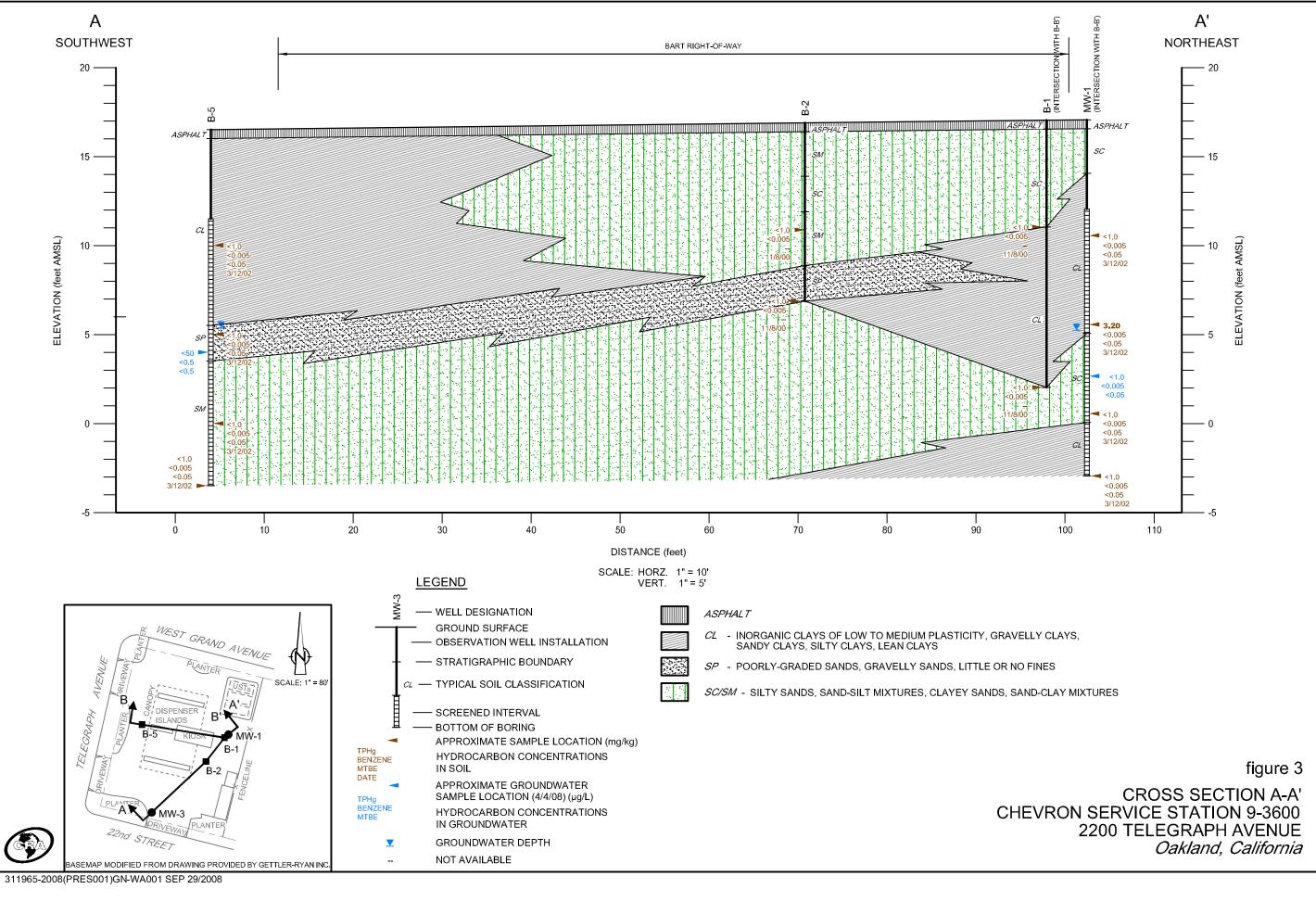
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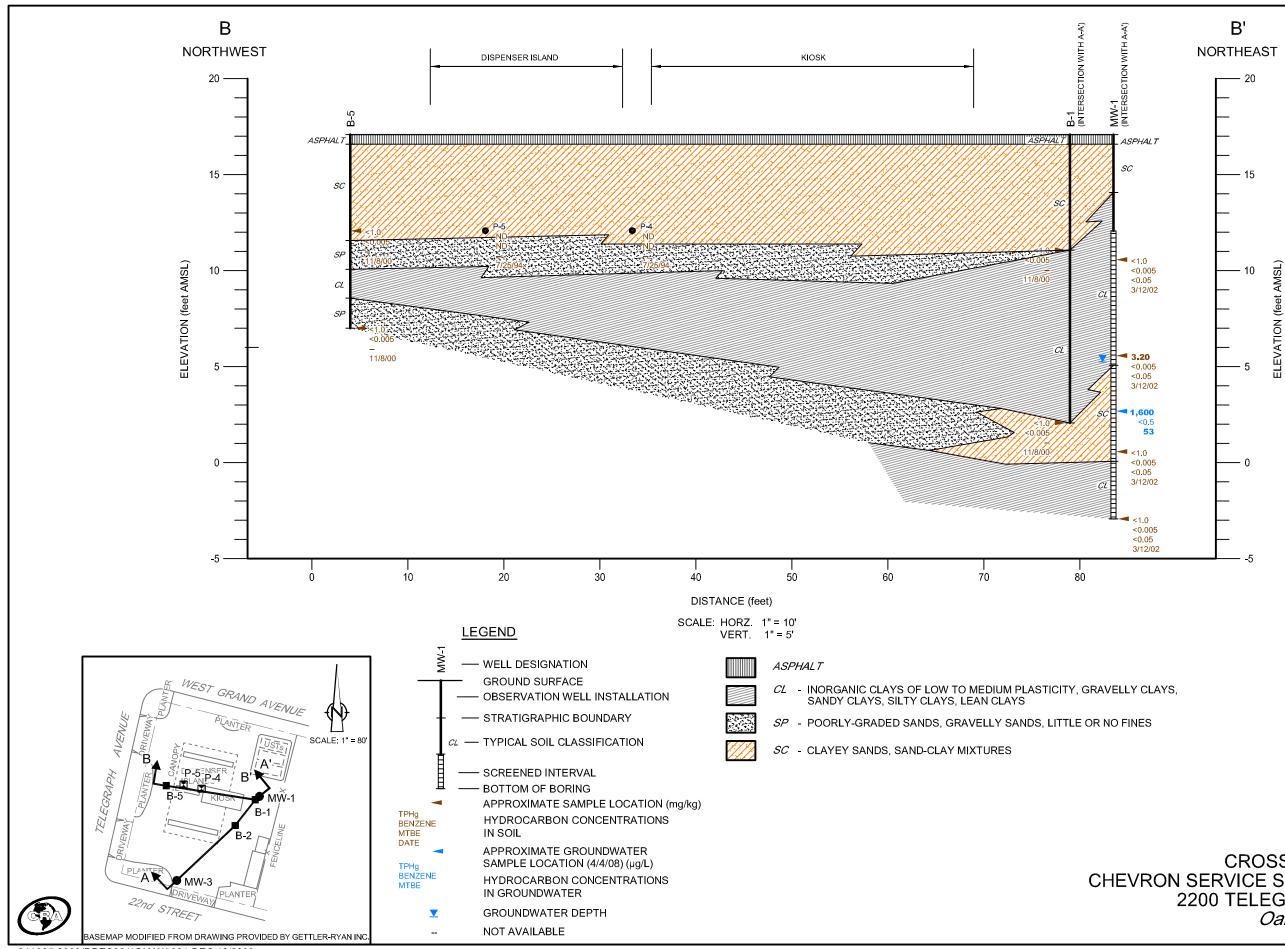
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G	ettler-f	tyan,	Inc.	Log of Boring B-8		
			ion No. 9-3600	LOCATION: 2200 Telegraph Avenue, (Dakland, CA.	
JECT:	Chevron Ser	NCE Stat		SURFACE ELEVATION:		
ROJEC	T NO. : 346	100		WL (rt. bgs). DATE:		
ESIA	TED: 11/08/ SHED: 11/08	100		WL (M. DOS). DATE	INE:	
E FINI	METHOD: 31	1/2 In Hai	nd Auger	TOTAL DEPTH: 4 feet		
LING	COMPANY: B	lay Area l	Exploration	GEOLOGIST: Tony Mikacich		
(mdd) OId	BI.ONS/FT. * SAMPLE INT. GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS	
			ASPHALT - 6 inches t	hick. Frown (7.5YR 4/3), moist; 70% sand, 30% silt.		
-		SN	SILTY SAND (SM) - D	KOMU (1'21L 4)21, WORL COLUMN	Boring backfilled with neat cement from the bottom ground surface	
, 1		<u>ii</u>	Bottom of boring at 4	4 feet bgs.		
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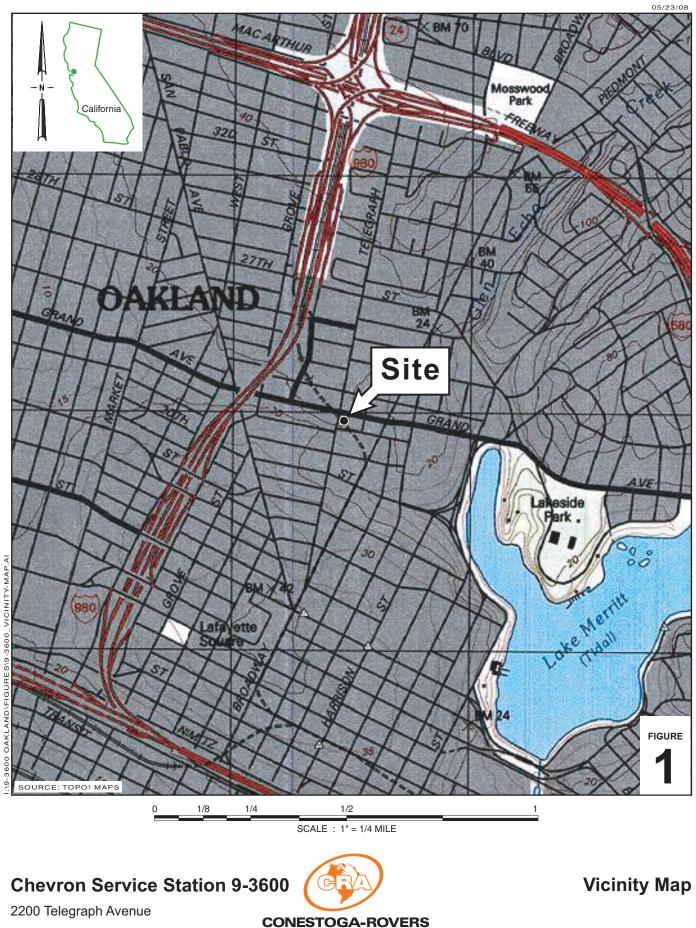




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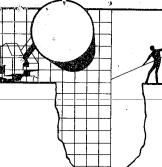
figure 4

CROSS SECTION B-B' CHEVRON SERVICE STATION 9-3600 2200 TELEGRAPH AVENUE Oakland, California



Oakland, California

CONESTOGA-ROVERS & ASSOCIATES



BLAINE TECH SERVICES INC.

1370 TULLY RD., SUITE 505 SAN JOSE, CA 95122 (408) 995-5535

November 21, 1986

SEP 2.9 '89 H.C.H.

Chevron USA, Inc. 2 Annabel Lane, Suite 200 San Ramon, CA 94583

Attention: Fara D. Vazinpour

Re: Field sampling at

5#9-3600 FILE

Chevron Station West Grand & Telegraph Oakland, CA on October 24, 1986 and October 27, 1986

Field sampling was undertaken in accordance with State and local enforcement agency standards and requirements for objective analytical information on the levels of residual contaminants found outside the primary containment structure. This project concerned the following:

Sampling of a re-excavated backfilled tank pit from which a tank had been previously removed in order to set a new tank in the same location.

Sampling was performed in accordance with approved methodology at the locations shown on the accompanying site diagram. Additional information is presented on the diagram including our field sampling designations and the lab identification numbers which reference the analytical results which will be found in the separate laboratory report. Sample material was collected in special containers appropriate to the type of analysis intended. Sample containers were sealed, chilled, and transported to the laboratory with standard chain of custody records maintained at each transmittal. This sampling report, the chain of custody, and the analytical report comprise the formal documentation of the sampling conducted during this phase of work at the site.

86297F1 & 86300F1 10-24&27-86 Chevron, W. Grand & Telegraph, Oakland page 1

BLAINE Tech services

MAP REF: THOMAS BROS, ALAMEDA COUNTY P, 9 B-3

10-24-86 86297F1

#1 SUBSURFACE WATER SAMPLE ANALYSIS FOR TOTAL HYDRO-CARBONS (THC) AS GASOLINE, BENZENE, TOLUENE AND XYLENE

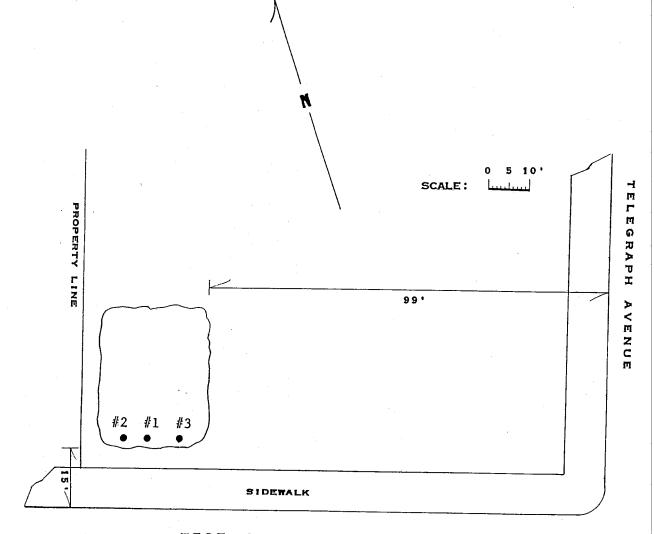
10-27-86 86300F1

#2 SOIL FROM 13' ANALYSIS FOR THE AS GASOLINE

#3 SOIL FROM 13' ANALYSIS FOR THE AS GASOLINE

NOTE: ALL SAMPLES WERE TAKEN TO THERMO ANALYTICAL INC/ERG FOR ANALYSIS

SAMPLING PERFORMED BY FRANK A. CLINE DIAGRAM PREPARED BY TAMMIE STALLINGS



WEST GRAND AVENUE

PAGE 2

Reportage

Submission to the Regional Water Quality Control Board and the local regulatory/enforcemnt agency should include copies of the sampling report, the chain of custody, and the laboratory report. The property owner should attach a cover letter and submit all documents together in a package.

The following addresses have been listed here for your convenience:

Water Quality Control Board San Francisco Bay Region 1111 Jackson Street Room 6040 Oakland, CA 94607 ATTN: Peter Johnson

Alameda County Health Hazardous Materials Management 420 27th Street Oakland, Ca 94612 ATTN: Ted Jerow

If I can be of any further assistance, please call.

Signil Blaine) hard C. Blaine

RCB/tls

86297F1 & 86300F1 10-24&27-86 Chevron, W. Grand & Telegraph, Oakland page 3

		SERVICES	P.O. BOX 5745 SAN JOSE, CA 95150 (408) 723-3974
	(二) 8629	ollowing designation in lab repor 77F1 hove this line_is_the_project-des	W Grand & Telegraph
	Field sampling completed:		Kfler
	:hrs86 :hrs86 :hrs86 I.D. TYPF	hrs86	
	#1 Liguid	THC(Gas)BIX	<u>FILMS FIVAL</u> (400)
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-	TURN AROUND 4 hrs.		
	Chexron USA	BILLING INVOICE TO:	
i c	c BLAINE TECH SERVICES (always) c OTHER:	Verbal/Ref PO From: SPECIAL INSTRUCTIONS	
。 		() Phone results to BTS () Phone results to clin	ent direct
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BLAINE P.O. BOX 574: SAN JOSE, CA 9515 TECH SERVICES (408) 723-397 Field sampling completed Dathrs. 1027-86 performed by RELEASED BY ACCEPTED BY 1 10:13 hrs.1027-86 all 10:18 hrs. 10 - 27-86 Jue _hrs. -86 hrs. -86 -86 hrs. hrs. ~86 hrs. -86 hrs. _ ----86 1.D. TYPE ANALYSIS LAB # PRELIMS FINAL #2 (400) 4,5 MAN) Sou THK (Gas) 3 (NO Sol THC Gas ∄ 6 61 27186 TURN AROUND H Prernar REPORT TO: BILLING INVOICE TO: USA Attn Fara Vacin pour Phone (415) 838-5224 Attn Verhal/Ref PO From: cc BLAINE TECH SERVICES (always) SPECIAL INSTRUCTIONS cc OTHER:) Phone results to BTS) Phone results to client direct

TIVIA Thermo Analytical Inc.

TMA/ERG 1400 West 53rd Street Suite 460 Emeryville, CA 94608-2946

(415) 652-2300

Chevron USA 2 Annabel Lane, Suite #200 San Ramon, CA 94583 October 27, 1986 Report #9561 Release #71

Attention: Fara Vazinpour

Site Location: Chevron Station #1853, West Grand and Telegraph, Oakland.

RE: One (1) water sample submitted on October 24, 1986 for rush-ASAP gasoline and BTX analyses.

Procedure: The sample is analyzed for gasoline by following the method described in Attachment 2, Analytical Procedures for Fuel Leak Investigations. The sample is concentrated on a Tekmar LSC-2 automatic sample concentrator prior to injection into a gas chromatograph fitted with a flame ionization detector. Quantitation is performed, as total hydrocarbon response, against solutions made from a known concentration of gasoline. The limit of detection for this method of analysis is one part per million (mg/L).

The aromatic levels are determined by following a modified EPA Method 602 procedure. The volatile components of the samples are concentrated with a Tekmar LSC-2 automatic sample concentrator prior to injection into a gas chromatograph fitted with a photoionization detector. Quantitation is performed against solutions made fgrom known concentrations of aromatic compounds. The limit of detection is 0.5 parts per million (mg/L).

The results are shown below:

		Conce	entration	(mg/L)	TOTAL HYDROCARBON
TMA/ERG #	CLIENT ID B	<u>ENZENE</u>	TOLUENE	XYLENES	RESPONSE
9561-1	86297 F1 #1	10	ND(0.5)	ND(0.5)	480
ND = None	detected. Th	e limit	of detect	tion is in	n ().

Submitted by:

Robert B. Flay Manager, Organics Department

RBF: sml

cc: Rich Blaine Blaine Tech Services P.O. Box 5745 BLAINE TECH SERVICES INC.

1370 TULLY RD., SUITE 505 SAN JOSE, CA 95122 (408) 995-5535

November 28, 1986

SEP 2 9 '89 H.C.H.

Chevron USA, Inc. 2 Annabel Lane, Suite 200 San Ramon, CA 94583

Attention: Fara D. Vazinpour

Re: Field sampling at

Chevron Station West Grand & Telegraph Oakland, CA on October 29, 1986

SAMPLING REPORT

Field sampling was undertaken in accordance with State and local enforcement agency standards and requirements for objective analytical information on the levels of residual contaminants found outside the primary containment structure. This project concerned the following:

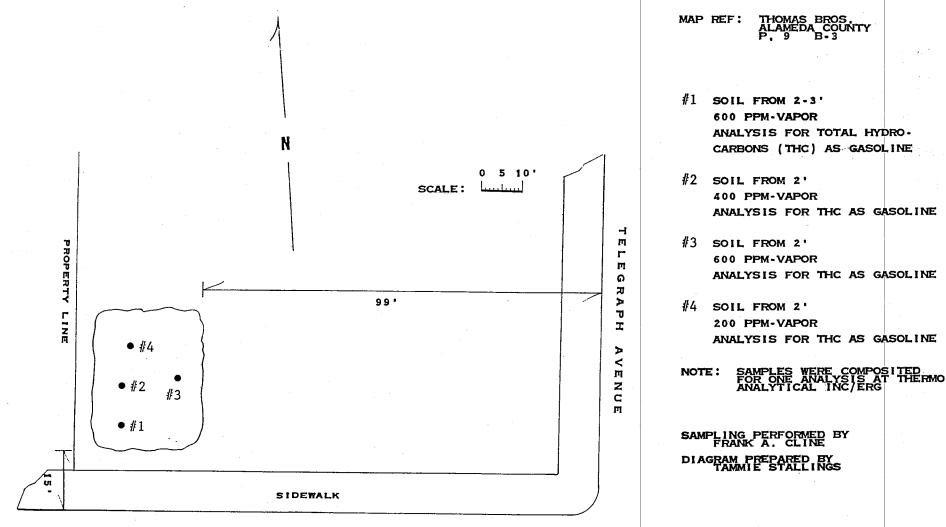
Sampling of a re-excavated backfilled tank pit from which a tank had been previously removed in order to set a new tank in the same location.

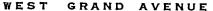
Sampling was performed in accordance with approved methodology at the locations shown on the accompanying site diagram. Additional information is presented on the diagram including our field sampling designations and the lab identification numbers which reference the analytical results which will be found in the separate laboratory report. Sample material was collected in special containers appropriate to the type of analysis intended. Sample containers were sealed, chilled, and transported to the laboratory with standard chain of custody records maintained at each transmittal. This sampling report, the chain of custody, and the analytical report comprise the formal documentation of the sampling conducted during this phase of work at the site.

86302F4 10-29-86

Chevron, W. Grand & Telegraph, Oakland

page 1





PAGE 2

Reportage

Submission to the Regional Water Quality Control Board and the local regulatory/enforcemnt agency should include copies of the sampling report, the chain of custody, and the laboratory report. The property owner should attach a cover letter and submit all documents together in a package.

The following addresses have been listed here for your convenience:

Water Quality Control Board San Francisco Bay Region 1111 Jackson Street Room 6040 Oakland, CA 94607 ATTN: Peter Johnson

Alameda County Health Hazardous Materials Management 420 27th Street Oakland, Ca 94612 ATTN: Ted Jerow

If I can be of any further assistance, please call.

for Richard C. Blaine

RCB/tls

86302F4 10-29-86

Chevron, W. Grand & Telegraph, Oakland

page 3



TMA/ERG	
1400 West 53rd Street	
Suite 460	
Emeryville, CA 94608-2946	
(415) 652-2300	

Chevron USA 2 Annabel Lane, Suite #200 San Ramon, CA 94583 October 31, 1986 Report #9584 Release #71

Attention: Fara Vazinpour

Site Location: Chevron Station #1853, West Grand and Telegraph, Oakland.

RE: Four (4) soil samples submitted on October 29, 1986 for rush-ASAP gasoline analysis.

Procedure: The samples are analyzed for gasoline by following the method described in Attachment 2, Analytical Procedures for Fuel Leak Investigations. The samples are concentrated on a Tekmar LSC-2 automatic sample concentrator prior to injection into a gas chromatograph fitted with a flame ionization detector. Quantitation is performed, as total hydrocarbon response, against known concentrations of gasoline. The limit of detection for this method of analysis is one part per million (mg/kg).

The results are displayed in the table below:

TMA/ERG #	CLIENT ID	CONCENTRATION (mg/kg)
9584-1	86302 F4 #1	15
9584-2	86302 F4 #2	44
9584-3	86302 F4 #3	1.4
9584-4	86302 F4 #4	ND(1)

ND = None detected. The limit of detection is in ().

Submitted by:

Bolunk Flan

Robert B. Flay Manager, Organics Department

RBF: sml

cc: Rich Blaine Blaine Tech Service P.O. Box 5745 San Jose, CA 95150

BLAINE P.O. BOX 5745 SAN JOSE, CA 95150 (408) 723-3974 TECH SERVICES Include <u>ALL</u> of the following designation in lab reports and invoices # 86302F4EVERYTHING written above this line is the project designation Field sampling completed 2:15 hps. 10-29-86 performed by a RELEASED BY ACCEPTED BY 30ps. 1029-86 2:39hrs. 10 -29-86 ΛÜ lu hrs. -86 hrs. -86 hrs. -86 hrs. -86 :___hrs. -86 hrs. -86 I.D. TYPE PRELTMS ANALYST FINAL LAB # Soi THI (Gas # #2 ₩3 #4 Compasite 4 Cans Inte Samu 'e · 10-30-86 ₿v ДM TURN AROUND BILLING INVOICE TO: REPORT TO: Churon Attn Farak Phone 415 Attn Verbal/Ref PO From: 5229 Q.38 cc BLAINE TECH SERVICES (always)
cc OTHER: SPECIAL INSTRUCTIONS) Phone results to BTS) Phone results to client direct - - - -

RPID.



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

Marketing – Northwest Region Phone 510 842 9500

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

Re: Chevron Service Station #9-3600 2200 Telegraph Avenue, Oakland, CA

Dear Ms. Eberle:

September 12, 1994

Enclosed is the Product-Line Removal Sampling Report dated August 9, 1994, prepared by our consultant Touchstone Developments for the above referenced site.

FILE

As indicated in the report, the gasoline product lines were removed and replaced. Soil samples collected beneath the former product piping were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Laboratory analytical results indicate that concentrations of these constituents were below method detection limits in five of the eight samples analyzed. Negligible concentrations of these constituents were observed in the other three samples. All analytical data is summarized in Tables A through C of the report.

Based on the data collected to date, it appears that hydrocarbon impacts to soils beneath the site are minimal and no further action is warranted.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely, CHEVRON U.S.A. PRODUCTS COMPANY

Malu 2 L.

Mark A. Miller Site Assessment and Remediation Engineer

Enclosure

cc: Mr.Kevin Graves, RWQCB - Bay Area Mr. S.A. Willer

File: 9-3600 TD LR1



PRODUCT-LINE REMOVAL AND SAMPLING REPORT

for

Chevron Station No. 9-3600 2200 Telegraph Avenue Oakland, California

Prepared for

Chevron U.S.A. Products Company 2410 Camino Ramon San Ramon, California 94583

by -

Touchstone Developments

August 9, 1994

P.O. Box 2554 · Santa Rosa, CA 95405 · Office: (707) 538-8818 · Fax: (707) 538-8812 · Mobile/Fax: (707) 484-5112



August 9, 1994

Chevron U.S.A. Products Company 2410 Camino Ramon San Ramon, California 94583

Attention: Mark Miller

Reference: Product Line Removal and Sampling Report Chevron Station No. 9-3600 2200 Telegraph Avenue Oakland, California

Gentlemen:

INTRODUCTION

This report summarizes the field activities performed at the above referenced location (Figure 1) during the recent removal of product lines associated with the service station operations. Excavation and product piping removal was performed by Town and Country Contractors of Sacramento, California. A Touchstone Developments representative was present to observe the removal and to obtain soil samples from under the lines and associated stockpiles. The soil sampling and analysis described in this report were performed July 25, 1994 to comply with the current State of California Regional Water Quality Control Board guidelines.

SITE DESCRIPTION

The site is currently operated as a Chevron service station on the southwest corner of West Grand Avenue and Telegraph Avenue. The station sells unleaded gasoline products. The site is surrounded by commercial businesses.

FIELD ACTIVITIES

Gasoline product lines were removed from the three Underground Storage Tanks (USTs) to the dispenser islands in order to upgrade and replace them. Soil samples were collected on July 25, 1994 from these product line trenches. Brian Oliva of Alameda County Health Agency, Department of Environmental Health was on site to observe soil sampling activities. Also present were Mark Miller and Belinda Erdelt representing Chevron U.S.A. Products Company.

P.O. Box 2554 · Santa Rosa, CA 95405 · Office: (707) 538-8818 · Fax: (707) 538-8812 · Mobile/Fax: (707) 484-5112

Page 2

Soil Sampling

Soil samples were collected from the backhoe bucket by removing the top few inches of soil then pushing a clean brass tube (2 inches by 6 inches) into the soil until full. The ends of the tubes were then covered with aluminum foil and sealed with plastic end caps. The sample was then labeled, placed in a cooler with ice, entered on a Chain-of-Superior Precision Custody form and transported to located State-Certified Laboratory in Analytical, a Martinez, California. Product piping samples were designated P-1 through P-8 and collected approximately 4 1/2 to 5 1/2 feet below grade as directed by Brian Oliva (Figure 2).

The stockpile samples were collected by removing the top 6 to 10 inches of soil, then pushing the tube into the soil until full. One sample was collected for approximately every 12 1/2 cubic yards of soil generated then four samples were then composited in the laboratory and analyzed as one to represent approximately every 50 cubic yards. An estimated 100 cubic yards were generated from the product line excavations. Stockpile samples were designated SP-1a-d and SP-2a-d (Figure 2). Stockpiles have been profiled for disposal at Redwood Landfill located in Novato, California. Transportation will be scheduled during August 1994.

ANALYTICAL RESULTS

All samples were analyzed for Total Petroleum Hydrocarbons (TPH) calculated as gasoline according to EPA Method 8015 modified, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. Total Lead according to EPA Method 6010 was requested for P-6 and Organic Lead for SP-1a-d for disposal requirements. Analytical results are summarized on Table A with the sample depths. Copies of the Certified Analytical Reports are attached in Appendix A.

If you have any questions please call me at (707) 538-8818.

Jeff L. Monroe Project Manager

JLM/jlm Figure 1: Site Plan Figure 2: Site Plan with Sample Locations Table A: Analytical Summary Appendix A: Certified Analytical Reports and COC

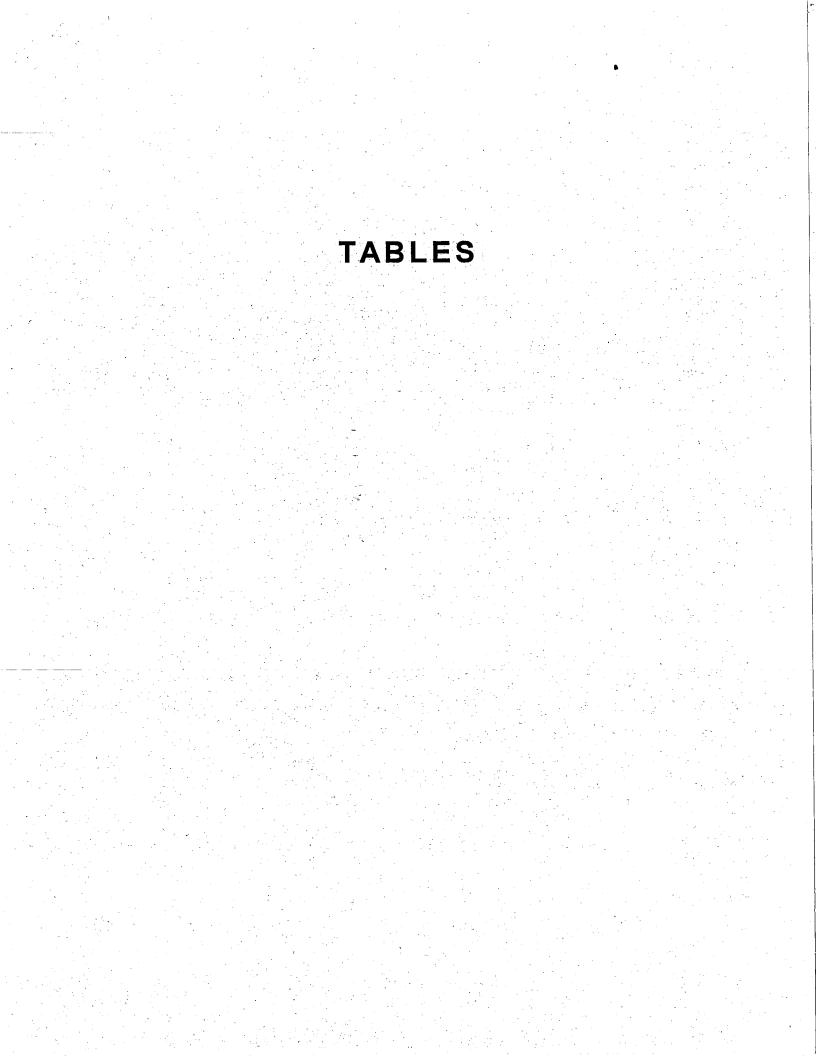


TABLE A

ANALYTICAL SUMMARY

Results in mg/Kg - parts per million (ppm)

PRODUCT LINE SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	LAB	DATE	TPH - Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	TOTAL LEAD
P-1	4.5	Sequoia	25-Jul-94	ND	ND	ND	ND	ND	NA
P-2	4.5	Sequoia	25-Jul-94	ND	ND	ND	ND	ND	NA
P-3	5	Sequoia	25-Jul-94	ND	ND	0.012	0.008	0.045	NA
P-4	5	Sequoia	25-Jul-94	ND	ND	ND	ND	ND	NA
P-5	5	Sequoia	25-Jul-94	ND	ND	ND	ND	ND	NA
P-6	5.5	Sequoia	25-Jul-94	3.6	ND	0.03	0.012	1.3	ND
P-7	[~] 5.5	Sequoia	25-Jul-94	ND	ND	0.005	ND	0.007	NA
P-8	5	Sequoia	25-Jul-94	ND	ND	ND	ND	ND	NA

STOCKPILE SAMPLING RESULTS

SAMPLE ID	LAB	DATE	TPH - Gasoline	Benzene	Toluene	Ethyl- benzene	Xylenes	Organic Lead
SP-1 a-d	Sequoia	25-Jul-94	ND	ND	ND	ND	ND	ND
SP-2 a-d	Sequoia	25-Jul-94	3.2	ND	0.015	0.02	0.13	NA

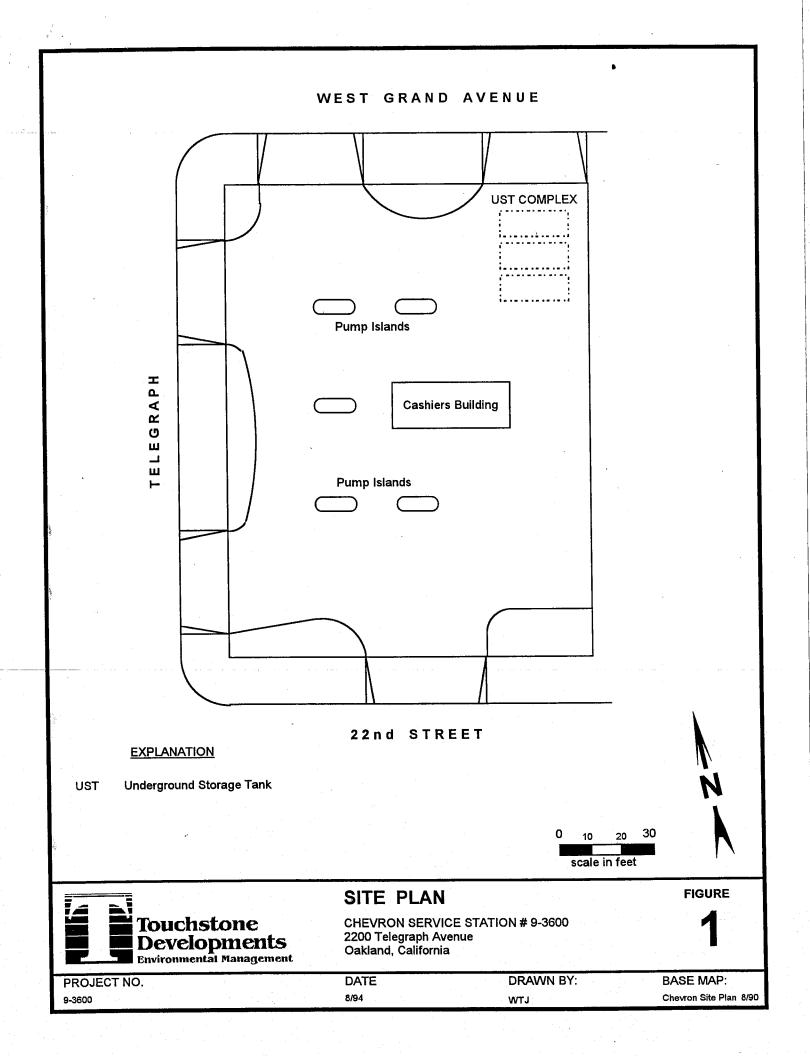
TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline

TOG = Total Oil & Grease

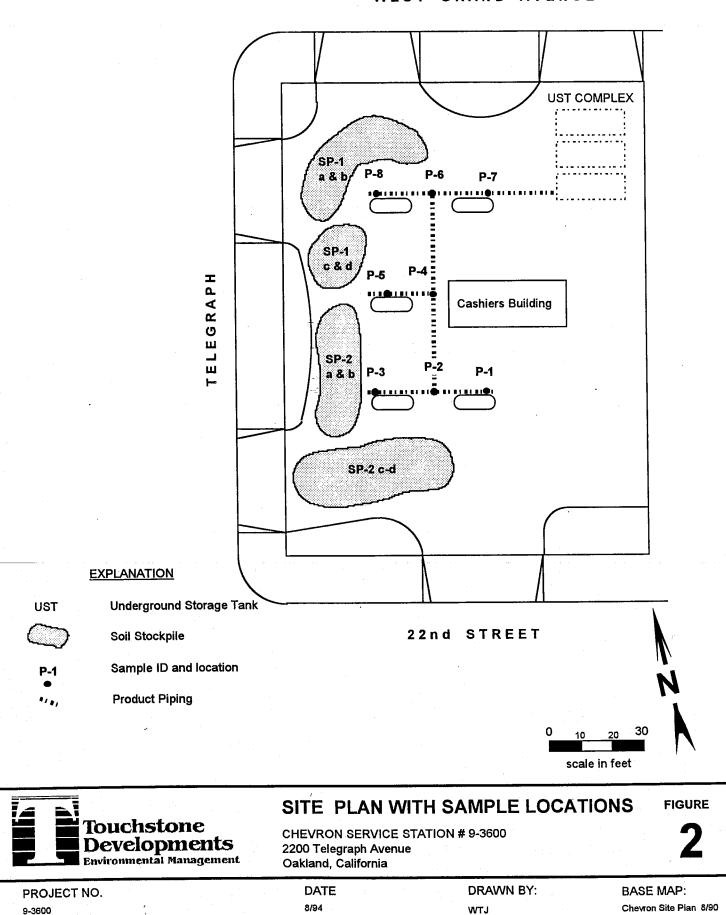
ND = Not detected at or above the laboratory detection limits.

NA = Analysis not requested.





WEST GRAND AVENUE



APPENDIX A

Chemical Analytical Reports and Chain-of-Custody Forms Superior Precision Analytical, Inc. A member of ESSCON Environmental Support Service Consortium

TOUCHSTONE DEVELOPMENTS Attn: JEFF MONROE Project 3600-11 Reported 08/09/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30675- 1	SP-1A-D	07/25/94	08/01/94 Soil
30675-2	SP-2A-D	07/25/94	08/01/94 Soil
30675- 3	P-1	07/25/94	08/01/94 Soil
30675-4	P-2	07/25/94	08/01/94 Soil
30675- 5	P-3	07/25/94	08/01/94 Soil
30675- 6	P-4	07/25/94	08/01/94 Soil
30675- 7	P-5	07/25/94	08/01/94 Soil
30675- 8	P-6	07/25/94	08/01/94 Soil
30675- 9	P-7	07/25/94	08/01/94 Soil
30675-10	P-8	07/25/94	08/01/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 30675-1 30675-2 30675-3 30675-4 30675-5

Gasoline:	ND<1	3.2	ND<1	ND<1	ND<1
Benzene:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
Toluene:	ND<.005	0.015	ND<.005	ND<.005	0.012
Ethyl Benzene:	ND<.005	0.02	ND<.005	ND<.005	0.008
Total Xylenes:	ND<.005	0.13	ND<.005	ND<.005	0.045
Concentration:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Laboratory Number:	30675- 6	0675-73	30675- 8 3	30675-93	0675-10
Gasoline:	ND<1	ND<1	3.6	ND<1	ND<1
Benzene:	ND<.005	ND<.005	ND<.005	ND<.005	ND<.005
Toluene:	ND<.005	ND<.005	0.03	0.005	ND<.005
Ethyl Benzene:	ND<.005	ND<.005	0.012	ND<.005	ND<.005
Total Xylenes:	ND<.005	ND<.005	1.3	0.007	ND<.005

Concentration: mg/kg mg/kg mg/kg

Page 1 of 2

mg/kg

mg/kg

Certified Laboratories



A member of ESSCON Environmental Support Service Consortium

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 30675

NA = ANALYSIS NOT REQUESTED ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F: Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons: Minimum Quantitation Limit for Diesel in Soil: 1mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline: Benzene: Toluene: Ethyl Benzene:	102/130 89/94 103/113 99/106	24% 5% 9% 7%	70-130 70-130 70-130 70-130
Total Xylenes:	112/120	78	70-130

Certified Laboratories



TOUCHSTONE DEVELOPMENTS Attn: JEFF MONROE Project 3600-11 Reported 02-August-1994

ANALYSIS FOR TOTAL ORGANIC LEAD by California LUFT Method

Chronology				Laboratory	Number	30675
Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
SP-1A-D	07/25/94	07/26/94	07/29/94	07/29/94		1
	· .					

Page 1 of 3

Certified Laboratories



TOUCHSTONE DEVELOPMENTS Attn: JEFF MONROE Project 3600-11 Reported 02-August-1994

ANALYSIS FOR TOTAL ORGANIC LEAD

Laboratory Number	Sample Identification	Matrix
30675- 1	SP-1A-D	Soil
Laboratory Number:	RESULTS OF ANALYSIS 30675- 1	
ORGANIC LEAD:	ND<2	
Concentration:	mg/Kg	

Page 2 of 3 Certified Laboratories

Superior Precision Analytical, Inc. A member of ESSCON Environmental Support Service Consortium

> ANALYSIS FOR TOTAL ORGANIC LEAD Quality Assurance and Control Data - Soil

Laboratory Number 30675

Compound	Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
ORGANIC LEAD:	ND<2	2	83/84	75-125	1%

Definitions: ND = Not Detected RPD = Relative Percent Difference RL = Reporting Limit mg/Kg = Parts per million (ppm) QC File No. 30675

Chemist

Account Manager

Page 3 of 3 Certified Laboratories

Fax copy of Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583	Chevron Facil Facili Consultant Pr Consultant N	ity Number ity Address roject Number ame	9-300 2200 TC/ 3690-	hevron 1919 Dei	Conta h, C religne		O Chevron Contact Laboratory Name Laboratory Relea	(Name) (Phone) 9 Stapen	da Ede	ody-Record
FAX (415)842-9591	Address_ Project C	Contact (Name) _ (Phone)	575788818 575788818			2772 1000	Samples Collecto Collection Date - Signature Analyses To	7-25-	94	onroe
Sampie Number Lab Sampie Number	Number of Containers Matrix S = Soit A = Ar W = Water C = Char	C 2:	Somple Pres	() Icad (Tom or No) BITEX + TPH QUS (8020 + 8015)	TPH Diesel (8015) Oil and Grease (55520)	Purgachia Maloca (8010) Purgachia Ardm	(aucu) Purgeeble Organ (8240) Extractable Orga	MACOLIE PEZANNI Calar PEZANNI (ICAP Or M) (ICAP OR M) TOFZE FA	DOm	Remarks
P = 2 P = 2 P = 3	4	C 12:4 D 1:04 1 1:04 1 1:11							Sa	5 con vactor
P-4 P-5 P-6 P-7						<u>Sc</u>	lease Initial: amples Store			
P							propriete ce imples prese DA's without impents	headspace <u>NF</u> 16 San PLE		
Relinquiched By (Signature Relinquiched By (Signature Relinquiched By (Signature) or	ganization ganization ganization	Date/Time/0:58 7-26-94 Date/Time Date/Time	Received E	y (Signature) y (Signature) for Laboratory		Organization	Date/Time Date/Time Date/Time	6	me (Circle Cholce) Hre. Hre. Doye Doya ontracted

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium TOUCHSTONE DEVELOPMENTS Attn: JEFF MONROE

Project 3600-11 Reported 09-August-1994

ANALYSIS FOR TOTAL LEAD by EPA Method SW-846 6010

Laboratory Number 30675 Chronology Identification Sampled Received Extracted Analyzed Run # Lab # 08/02/94 07/25/94 07/26/94 07/29/94 8 P-6

Page 1 of 3

Certified Laboratories



TOUCHSTONE DEVELOPMENTS Attn: JEFF MONROE Project 3600-11 Reported 09-August-1994

ANALYSIS FOR TOTAL LEAD

· · ·	•	
Laboratory Number	Sample Identification	Matrix
30675- 8	P-6	Soil
Laboratory Number:	RESULTS OF ANALYSIS 30675- 8	
TOTAL LEAD:	8.2	
Concentration:	mg/Kg	

Page 2 of 3

Certified Laboratories

uperior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium ANALYSIS FOR TOTAL LEAD Quality Assurance and Control Data - Extract

Laboratory Number 30675

Compound	Method Blank (mg/Kg)	RL (mg/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
TOTAL LEAD:	ND<5	5	100/94	75-125	6%

Definitions: ND = Not Detected RPD = Relative Percent Difference RL = Reporting Limit mg/Kg = Parts per million (ppm) OC File No. 30675

Senior Chemist Account Manager

Page 3 of 3

Certified Laboratories



TRANSMITTAL

TO: Mr. Tom Bauhs **Chevron Product Company** P.O. Box 6004 San Ramon, California 94583 DATE: **PROJ.** #:

November 21, 2000 346895.01 SUBJECT: Chevron #9-3600 2200 Telegraph Ave. Oakland, California

FROM:

Tony P. Mikacich Project Geologist Gettler-Ryan Inc. 3164 Gold Camp Drive, Suite 240 Rancho Cordova, California 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION	
2	November 21, 2000	Baseline Evaluation	

THESE ARE TRANSMITTED as checked below:

[] For review and comment	[] Approved as submitted	[] Resubmit _ copies for approval
[] As requested	[] Approved as noted	[] Submit _ copies for distribution
[] For approval	[] Return for corrections	[] Return corrected prints

[X] For Your Files

COMMENTS:

Please call Gettler-Ryan at 916.631.1300 if you have questions.

Mr. Greg Wanket, Chevron Products Company, 6001 Bollinger Canyon, San Ramon, CA 94583. cc:



BASELINE EVALUATION

at

Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

Report No. 346895.01

Prepared for:

Mr. Tom Bauhs Chevron Products Company P.O. Box 5004 San Ramon, California 94583

Prepared by:

Gettler-Ryan Inc. 3164 Gold Camp Drive, Suite 240 Rancho Cordova, California 95670

Tony P. Mikacich Project Geologist

ઝ No. 5577 Stephen J. Carter Senior Geologist FOFCALIF

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R.G. 5577

November 21, 2000

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FIELD ACTIVITIES	
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APPENDICES

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BASELINE EVALUATION

at

Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

Report No. 346895.01

INTRODUCTION

At the request of Chevron Products Company (Chevron), Gettler-Ryan Inc. (GR) performed a subsurface investigation of the soil and groundwater beneath the subject site. This report summarizes the procedures and results of the subsurface investigation to establish baseline conditions pending property transfer. The work was not performed at the request of a regulatory agency. The scope of work performed included: obtaining the necessary encroachment permit from Bay Area Rapid Transit (BART); obtaining the necessary soil boring permits from Alameda County Public Works Agency; advancing soil borings and collect soil and grab groundwater samples for chemical analysis; arranging for Chevron's contractor to dispose of the drill cuttings; and preparing this report.

SITE DESCRIPTION

The site is an active retail gasoline station located on the southeast corner of the intersection of Telegraph Avenue and West Grand Avenue in Oakland, California (Figure 1). The current facilities consist of a kiosk building, five dispenser islands, and three gasoline underground storage tanks (USTs) that share a common pit near the northeastern site boundary. Current site features are shown on Figure 2. A former Exxon service station, currently Valero gasoline station, is located west of the site on the southwest corner of Telegraph Avenue and West Grand Avenue. Additionally, a auto repair facility utilizes the property north of the subject site across West Grand Avenue, and it appears that the property may have been utilized for a retail gasoline station at one time.

PREVIOUS ENVIRONMENTAL WORK

In October 1986, Blaine Tech Services Inc. of San Jose, California collected and analyzed soil and groundwater samples from a re-excavated backfilled tank pit from which a tank had been previously removed. This former tank was located in the same area that the current USTs are located. Total petroleum hydrocarbons quantified as gasoline (TPHg) were detected at concentrations as high as 44 parts per million (ppm) in soil sample #2 from a depth between 2 and 3 feet below grade surface (bgs). TPHg was detected at a concentration of 4.5 ppm from an additional soil sample also identified as #2 collected from a depth of approximately 13 feet bgs in the former tank pit area. On October 24, 1986 one water sample was collected from the re-excavated backfilled tank pit location. TPHg and benzene were detected in groundwater sample #1 at concentrations of 480,000 parts per billion (ppb) and 10,000 ppb, respectively. Samples collected were

not analyzed for fuel oxygenate compounds by the laboratory. During the station reconstruction around 1986-87 sixteen vapor wells equipped with vapor sensors were installed because Bay Area Regional Transit (BART) tracks run beneath the site in an underground tunnel.

On October 13, 1992, Groundwater Technology, Inc. collected and analyzed one groundwater sample from vadose well (VW-2-1). TPHg and benzene were detected at concentrations of 42,000 parts per billion (ppb) and 3,300 ppb, respectively. Depth to groundwater was 4.43 feet below grade surface (bgs) during the October 13, 1992 sampling event. Groundwater samples collected were not analyzed for fuel oxygenate compounds.

On July 25, 1994 gasoline product lines were removed from the three USTs to the dispenser islands in order to upgrade the equipment. Touchstone Developments of Santa Rosa, California was onsite to observe the removal of product piping and collect soil samples from product line trenches from depths between 4.5 and 5.5 feet bgs during upgrade procedures. TPHg and xylenes were detected at concentrations as high as 3.6 ppm and 1.3 ppm, respectively, in soil sample P-6 from a depth of 5.5 feet bgs. Samples collected were not analyzed for fuel oxygenate compounds.

Based on the available analytical soil data relatively low concentrations of hydrocarbons were detected in soil samples collected from beneath the former product piping at depths up to 5.5 feet bgs. Additionally, soil samples collected from the former UST re-excavation area indicate a decrease in TPHg concentrations with depth. The area of highest hydrocarbon impact detected onsite is in the area of the former USTs. The vertical delineation of hydrocarbon-impacted soil has not been determined onsite. Lateral extent of hydrocarbon-impacted groundwater was not delineated onsite.

FIELD ACTIVITIES

Field work was performed in accordance with the GR Site Safety Plan #346895.01, dated November 5, 2000. GR Field Methods and Procedures are included in Appendix A. Underground Service Alert (USA) was notified prior to soil boring activities.

Soil Borings

Eight soil borings were advanced on November 8, 2000, to depths between 4 feet bgs and 16 feet bgs. The borings were drilled under Alameda County Public Works Agency (PWA) permit #WOO-671 (Appendix B). Borings advanced within the BART right-of-way (B-2 through B-6) were performed under BART encroachment permit No. K-014-2-OK. A copy of the BART Encroachment Permit and letter are presented in Appendix B. The soil borings were advanced by Bay Area Exploration Inc. personnel using a 3-inch diameter hand auger. Due to encroachment permit restrictions, none of the borings drilled in the BART right-of-way (borings B-2 through B-6) could be advanced deeper than 10 feet bgs. At BART's request, borings outside of their right-of-way were advanced to depths below 10 feet bgs by hand auger only.

A GR geologist observed the boring activities, described the encountered soil, collected soil samples for possible chemical analysis, and prepared a log of each boring. Soil samples were screened in the field for the presence of volatile organic compounds using a photoionization detector (PID). Screening data were recorded on the boring logs. The borings were abandoned by backfilling with neat cement containing approximately 5% bentonite powder and placed with a tremmie pipe. Boring logs are included in Appendix

B. Location of the soil borings are shown on Figure 2. Soil cuttings generated during drilling activities were placed on and covered with plastic sheeting at the site pending disposal. Approximately 1/2 cubic yard of cuttings were generated. Four soil samples (SP-1 through SP-4) were collected for disposal characterization.

Soil and Grab Groundwater Sampling

Soil samples were collected for chemical analysis from each boring, excluding boring B-8 where auger refusal was encountered at 4 feet bgs. Soil samples were collected directly from auger returns for all samples from less than 5 feet bgs. Soil samples were collected by pushing a clean 2-inch diameter by 6-inch long brass sleeve into the soil-filled auger. Soil samples collected from depths greater than 5 feet bgs were collected utilizing hand-driven sampling device fitted with a clean brass sleeve. The sampler was advanced into undisturbed native soil at the base of the boring to obtain the sample. Sample handling procedures are discussed in Appendix A.

Grab groundwater samples were collected by advancing the auger into saturated soil. The auger was then removed from the boring to allow groundwater to flow into the borehole. New disposable bailers were utilized to collect grab groundwater samples. Samples were then put into laboratory-supplied 40-ml VOAs that had been prepared with the appropriate preservative by the laboratory. Grab groundwater samples were collected from borings B-1 and B-7. Grab groundwater samples were not collected from borings B-2 through B-6 due to the BART encroachment permit restrictions specifying a maximum depth of the borings within the right-of-way.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation consisted predominately of silty sand, sandy clay, and poorly graded sand. During drilling, groundwater was encountered in borings B-1 and B-7 at depths of approximate 12 feet below grade surface (bgs) and 16 feet bgs, respectively. Detailed descriptions of the subsurface materials encountered during boring advancement are presented on the boring logs (Appendix C).

CHEMICAL ANALYTICAL RESULTS

Thirteen soil samples, two grab groundwater samples, and one composite soil sample from the cuttings stockpile were submitted for chemical analysis. Analyses were performed by Kiff Analytical (ELAP #2236) of Davis, California. Copies of the laboratory reports and chain-of-custody forms are included in Appendix C. Soil chemical analytical data are summarized in Table 1. Groundwater monitoring and chemical analytical data are summarized in Table 2.

Chemical Analytical Procedures

Soil and groundwater samples were analyzed for TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX), and methyl tert-butyl ether (MtBE) by EPA Method 8260. The soil samples were also analyzed for Total Lead by EPA Method 6010. The groundwater samples were also analyzed for methanol, ethanol, 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB), tert-butanol alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME) by EPA Method 8260. The stockpile soil sample was analyzed for TPHg, BTEX, MtBE and Total Lead.

Soil Chemical Analytical Results

TPHg or fuel oxygenates were not detected above the laboratory reporting limits in any of the soil samples analyzed. Xylenes were detected at a concentration of 0.0077 ppm in the composite stockpile sample SP-1, 2, 3, 4. Total lead was detected in soil samples at a concentrations ranging from 3.2 ppm to 32 ppm.

Groundwater Chemical Analytical Results

TPHg, BTEX, or fuel oxygenate compounds were not detected above the laboratory reporting limit in the grab groundwater sample from boring B-7. The grab groundwater sample from boring B-1 contained 29,000 parts per billion (ppb) of TPHg, 180 ppb of benzene, 730 ppb of MtBE and 380 ppb of TBA.

Waste Disposal

All soil generated during drilling activities were stored on and covered with plastic sheeting at the site pending analytical characterization before disposal to an appropriately facility. GR is in the process of scheduling removal of the stockpile soil.

CONCLUSIONS

Based upon the data collected during this investigation, hydrocarbon-impacted soil was not encountered in any of the soil borings. Hydrocarbon-impacted soil identified during previous environmental investigations does not appear to be laterally extensive. Groundwater south of the existing UST pit has been impacted by TPHg, benzene, MtBE and TBA. The lateral extent of this impact was not delineated during this investigation. TABLES

TABLE 1 - SOIL CHEMICAL ANALYTICAL DATA

Chevron Service Station, #9-3600

2200 Telegraph Avenue

Oakland, California

		Sample				<u> </u>	Ethyl-	Total							
Boring	Sample	Depth	TPHg	Pb	Benzene	Toluene	benzene	Xylenes	MtBE	TBA	DIPE	EtBE	TAME	EDB	1,2-DCA
Number	Date	(feet bgs)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	<u>(ppm)</u>	<u>(ppm)</u>	<u>(ppm)</u>
B-1															
B-1-6'	11/08/00	6.0	<1.0	32	<0.005	< 0.005	< 0.005	<0.005	< 0.005						
B-1-10'	11/08/00	10.0	<1.0	10	<0.005	< 0.005	<0.005	<0.005	<0.005						
B-2						-0.005	<0.00 <i>5</i>	<0.005	< 0.005						
B-2-6'	11/08/00	6.0	<1.0	9.6	< 0.005	< 0.005	<0.005	<0.005	<0.005						
B-2-10'	11/08/00	10.0	<1.0	6.2	<0.005	<0.005	<0.005	<0.005	<0.005						
B-3	· .				-0.005	< 0.005	<0.005	<0.005	<0.005						
B-3-5'	11/08/00	5.0	<1.0	27	<0.005	<0.005	~0.005	<0.00 <i>5</i>	-0.005						
B-4			-10	26	< 0.005	< 0.005	<0.005	<0.005	<0.005						
B-4-5'	11/08/00	5.0	<1.0	26 27	<0.003	< 0.005	<0.005	< 0.005	< 0.005						
B-4-10'	11/08/00	10.0	<1.0	21	~0.005	<0.00J	-0.005	-0.005							
B-5					-0.005	<0.005	<0.005	<0.005	<0.005						
B-5-5'	11/08/00	5.0	<1.0	17.0	< 0.005	<0.005	< 0.005	< 0.005	< 0.005						
B-5-10'	11/08/00	10.0	<1.0	8.9	<0.005	< 0.005	<0.00J	NU.005	-0.000						
B-6	· · · · · · · ·	- 0	-1.0	27	<0.005	<0.005	< 0.005	<0.00500	<0.005						
B-6-5'	11/08/00		<1.0	3.6	<0.005	< 0.005	< 0.005	< 0.005	< 0.005						
B-6-10'	11/08/00	10.0	<1.0	3.0	\0.00 J	\0.005	-0.005	0.000		:					
B-7					<0.005	<0.005	<0.005	<0.005	< 0.005						
B-7-5'	11/08/00		<1.0	6.5	<0.005 <0.005	<0.003	<0.005	<0.005	< 0.005						
B-7-10'	11/08/00	10.0	<1.0	6.8	<0.005	~0.00J	~0.00J	-0.000	0.000	:					
Stockpile Stockpile	Samples														
$SP(1-4)^1$	11/08/00		<1.0	11.0	< 0.005	< 0.005	< 0.005	0.0077	< 0.005						
()															

Boring Number	Sample Date	Sample Depth (feet bgs)	TPHg (ppm)	Pb (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Total Xylenes (ppm)	MtBE (ppm)	TBA (ppm)	DIPE (ppm)	EtBE (ppm)	TAME (ppm)	EDB (ppm)	1,2-DCA (ppm)
<u>Explanation</u> TPHg = Tota TPHd = Tota	al Petroleu al Petroleu	m Hydroca	rbons as (diesel				ytical (#223	36)						
BTEX = benMtBE = metTBA = terti	hyl tertiar	y-butyl ethe		otal xyle:	nes		TPHg/TP Oxygenat	<u>l Methods</u> Hd/BTEX: es: EPA M	ethod 826	0A					
DIPE = di-i EtBE = eth TAME = te	yl tertiary	-butyl ether					Total Lea	d by EPA N	Aethod 60	10					
EDB = ethy DCA = dichfeet bgs = fe	lene dibro hloroethar	omide 1e												•	
(ppm) = par = not ap Pb = total le	ts per mill plicable														

TABLE 2 - GROUNDWATER CHEMICAL ANALYTICAL DATA Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

Boring Number	Sample Date	Depth to Water (ft.)	TPHg (ppb)	Ethanol (ppb)	ethano (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MtBE* (ppb)	TBA (ppb)	DIPE (ppb)	EtBE (ppb)	TAME (ppb)	EDB/ 1,2-DCA (ppb)
B-1 B-1-11/08/00(W)	11/08/00	12.50	29,000	<200	<2,000	180	<20	2,200	1,100	730	380	<20	<20	<20	<20/<20
B-7 B-7-11/08/00(W)	11/08/00	15.00	<50	<5.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.5/<0.5

Explanation:

TOC = top of casing

- TPHg = total petroleum hydrocarbons as gasoline (includes MtBE)
- TPHd = total petroleum hydrocarbons as diesel
- BTEX = benzene, toluene, ethylbenzene, total xylenes
- MtBE = methyl tertiary-butyl ether
- TBA = tertiary-butyl alcohol
- DIPE = di-isopropyl ether
- EtBE = ethyl tertiary-butyl ether
- TAME = tertiary-amyl methyl ether
- DCA = dichloroethane
- (ppb) = parts per billion
- ND = analytes not detected above laboratory reporting limits

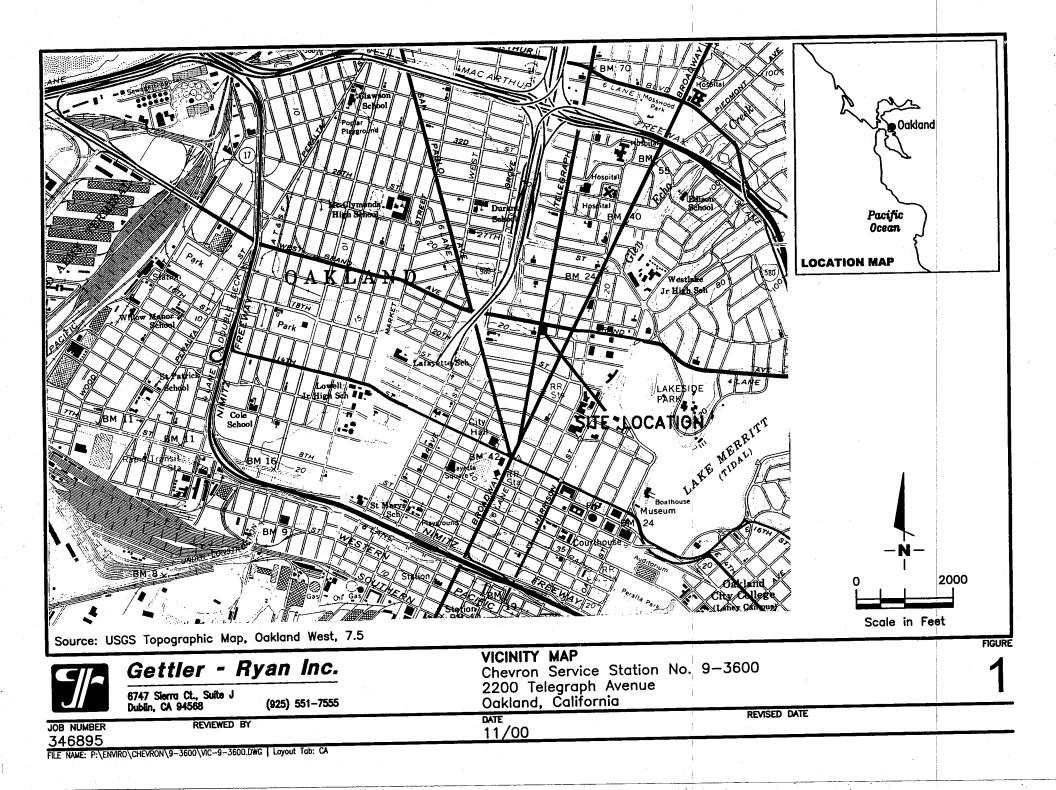
NA = not applicableft = feet

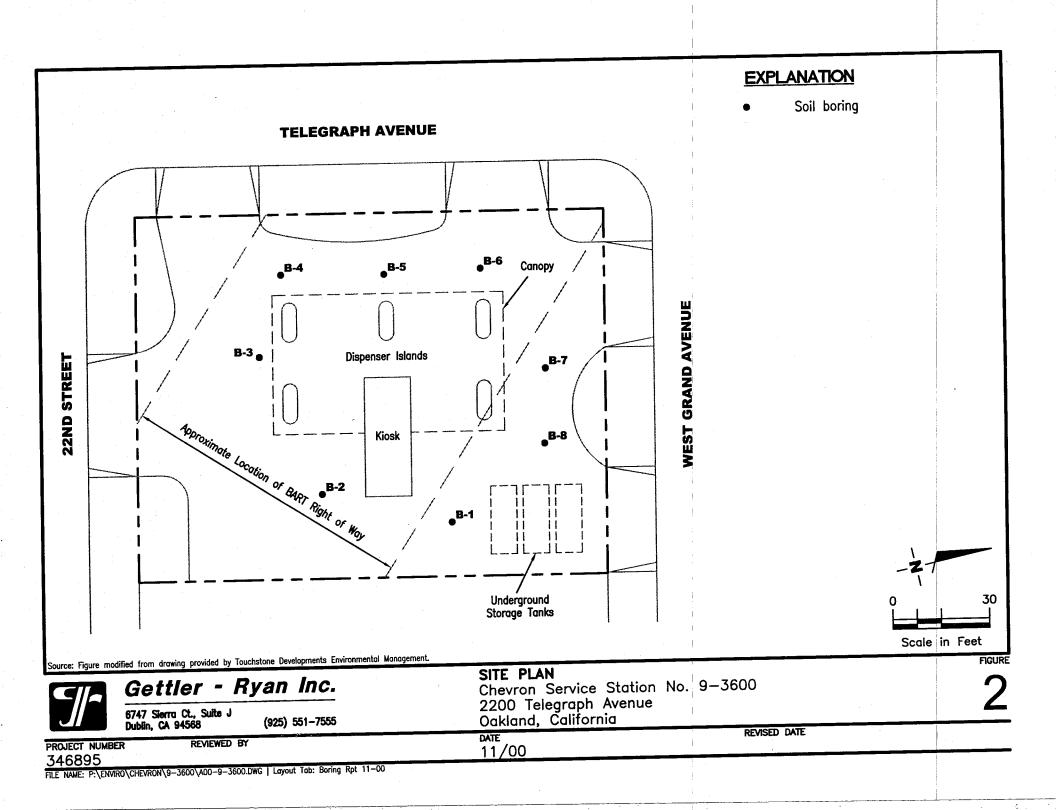
Analytical Laboratory Sequoia Analytical (ELAP #1271)

Analytical Methods TPHg/TPHd/BTEX: DHS LUFT Oxygenates: EPA Method 8260A * = EPA Method 8020/EPA Method 8260

FIGURES

 $d_{k} \in \mathbb{R}$





APPENDIX A

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES

Site Safety Plan

Fieldwork performed by Gettler-Ryan Inc. (G-R) is conducted in accordance with G-R's Health and Safety Plan (revised January 16, 1995) and the Site Safety Plan. G-R personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The G-R geologist or engineer at the site when the work is performed acts as the Site Safety Officer. G-R utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Soil borings are drilled by a California-licensed well driller. A G-R geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tube or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soils are described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with Teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

- a. depth relative to underground storage tanks and existing ground surface
- b. depth relative to known or suspected groundwater
- c. presence or absence of contaminant migration pathways
- d. presence or absence of discoloration or staining
- e. presence or absence of obvious gasoline hydrocarbon odors
- f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform headspace analysis in the field for the presence of organic vapors from the soil sample. A small volume of sample (20-30 cm³) is placed in a Ziplock®-type plastic bag with headspace. After allowing the sample to warm for approximately 10 minutes, the PID sample tube is inserted into the headspace above the sample and a measurement taken. PID screening results are recorded on the boring log as reconnaissance data. G-R does not consider field-screening techniques to be verification of the presence or absence of hydrocarbons.

Construction of Monitoring Wells

Monitoring wells are constructed in the exploratory soil borings with Schedule 40 polyvinyl chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen that generally extends from the total well depth to a point above the groundwater. An appropriately sized sorted sand is placed in the annular adjacent to the entire screened interval. A bentonite seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic-rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking waterproof cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Measurement of Water Levels

The top of the newly installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL). Depth-to-groundwater in the well is measured from the top of the well casing with an electronic water-level indicator. Depth-to-groundwater is measured to the nearest 0.01-foot, and referenced to MSL.

Well Development and Sampling

The purpose of well development is to improve hydraulic communication between the well and the surrounding aquifer. Prior to development, each well is monitored for the presence of floating product and the depth-to-water is recorded. Wells are then developed by alternately surging the well with a vented surge block, then purging the well with a pump or bailer to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized. After the wells have been developed, groundwater samples are collected. Well development and sampling is performed by Gettler-Ryan Inc. of Dublin, California.

Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting and samples are collected and analyzed on the basis of one composite sample per 100 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and them driving the stainless steel or brass sample tube into the stockpiled material with a hand, mallet, or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

APPENDIX B

FAX NO. 5107821939 OCT-20-00 FRI 11:58 AM ALAMEDA COUNTY PWA RM239 Oct. 19 2000 01:57PM P2 PHONE NO. : 916 631 1317 - WA NO' PIDIRSTARA F. 02102 FROM : GETTLER-RYAN INC. ALAMEDA COUNTY PUA RM233 SEP-28-00 THU 03:29 PM -ALAMEDA COUNTY PUBLIC WORKS AGENCY WATER RESOURCES SECTION 199 ELMRURET ST. HAYWARD CA. 34544-1395 PUBLIC PRONE (114) 479-6454 WORKS FAX (110)741-1839 DRILLING PERMIT APPLICATION FOR OFFICE USE TOR APPLICANT TO COMPLETE PERMIT NUMBER ______ WDD- 107 LOCATION OF PROJECT 2.200 TELEGRAPH AVE, WELL NUMBER OAKIANd, CA. AN PERMIT CONDITIONS Citated Permis Requirements Apply CLIENT CHEVRON PROJUCTS GENERAL Company A VISTO_ A parmie application should be submitted so as to Ilina P.O. Bor 5004 Phéne Inve as the ACPWA silles five days prior to propused during tale-Butmis to ACPWA within 60 days after completion of UPPLICANT mermitted eriginal Department of Water Resources+ Mikacich Settier - BANY MIRACICN Settier - BYAN INC. 132 916 631-13M Identi - Digt Sold CAMP OR TASK 916 631-1300 The Parties Conduca II 956 70-Well Completion Report. 3. Birmis is vois if project not begun within 90 days of eppsevet date B. WATER SUPPLY WELLS le Minimum surdes esai shishmerr in two mohes of coment arque plases by Wemit. YPE OF FROJECT 2. Minimum sest dans is 30 feet for municipal and Geolevinicat Investigation Wall Construction Industrial wells or 30 feet for domeanic and intigation ٥ Cittina) 0.5 Cathedia Prelocuica wells unless a lesser depth is specially anymoved. Conjunisation ۴. Water Supply ۵ C. GROUNDWATER MONITORING WELLS Well Destruction ē. Konitating INCLUDING PIEZOMETERS 1. Minimum surface scal thisiness it two inches of ROPOSED WATER SUPPLY WELL USE compts grows placed by transie. Replacement Domestie C New Domestic J 2.Minumum test aspin for monitoring walks to the E ٥ impation Munisipal menunum depth pressable or 10 feet. Ċ ۵ Other. ไหน่พระทร์ไม่ 0. DEOTECHNICAL Backfill bors bols by permit with contest grove or contest HILLING METHODI trouverne misture Lipper avoideres fest registed in sins Auger 12 Air Rolary 3 M M Rotary or whith companyed suntilles. n aner Calular E. CATHODIC AREA EXAMINATION INC. (BAE) ULLER'S NAME BAY Fill hale anode tont with concrete sized by treme. F. WELL DESTRUCTION See allacked requirements for exercise an afanatew ILLER'S LICENSE NG welle Bend a may of work site. A different parmit erb. 2-25-01 spelication is required for wells deeper than 63 feet G. SPECIAL CONDITIONS ILL FROIDERTS NOTE: One application must be solemined for each well or well Maximum Drift Hole Diameter dermetten. Maltiple betings en ane application are sepertable à. Desta Casing Diameter for sesuchaiesi and sereaminenten inversigations. Dunar's Well Numiser Surface Looi Depth OTECHNICAL PROJECTS Vurier of Borings <u>iQ</u> Maxbrutz 12 ñ Loie Diatostat ___ ,DATE_(0-) 25/00 /0 IMATED STARTING DATE APPROVED 10125/00 IMATED COMPLETION DATE by same to samply with all magnetises of the parent and Alemeda County Ordikanar No. 73-68 10/19/00 DATE 2.4 UCANT'S SIGNATURE MIKACICI Rev.6 -5-00 Tanas ASE PRINT NAME

P. 02



SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT 800 Madison Street - Lake Merritt Station P.O. Box 12688 Oakland, CA 94604-2688 Telephone (510) 464-6000

PERMIT NO.K-014-2-OK



THOMAS M. BLALOCK

WILLIE B. KENNEDY

THOMAS E. MARGRO

DIRECTORS

DAN RICHARD

JOEL KELLER 2ND DISTRICT

ROY NAKADEGAWA

CAROLE WARD ALLEN

PETER W. SNYDER

THOMAS M. BLALOCK 6TH DISTRICT

WILLIE B. KENNEDY

JAMES FANG

TOM RADULOVICH

GETTLER – RYAN INC. 3164 Gold Camp Drive, Suite 240 Rancho Cordova, CA 95670

PERMIT TO ENTER

Subject to the following covenants, terms, conditions and restrictions, the San Francisco Bay Area Rapid Transit District (hereinafter "District") hereby grants permission to Gettler-Ryan, Inc. (hereinafter "Permittee") to perform 10 soil borings, (hereinafter the "Work") partly within District right of way located between Telegraph-Avenue and West Grand Avenue and in the City of Oakland, County of Alameda, (hereinafter "Premises"), as and described shown on Exhibit "A" (Sheets 1 and 2 of 2), attached hereto and incorporated herein by reference.

1. Subject to Section 15 below, the term of this Permit shall commence on November 6, 2000, and end on November 10, 2000, provided, however, that at any time during the term, the Permit may be terminated by either party upon thirty (30) days prior written notice to the other party. The notice shall be sent certified mail, return receipt requested, to either: Permittee at the above address, Attention: Tony Mikacich, Project Manager; or to:

Real Estate Services San Francisco Bay Area Rapid Transit District 1330 Broadway, Suite 1800 Oakland, California 94612-2517

Attention: Desha R. Hill, Department Manager

The notice period shall begin to run upon receipt of the notice.

2. The fee for this permit shall be calculated per the Fee Schedule in Resolution No. 4515, adopted by the District's Board of Directors. A permit application fee of \$200.00 has been provided prior to approval of this Permit. Fees which are expended on plan review and inspection will be billed to Permittee upon completion of the Work.

3. Permittee's right to use this area shall be non-exclusive and non-transferable, and shall be for the sole purpose of the Work. In no event shall District's property be deemed to be a public right-of-way. Overnight parking is prohibited on District's property.

4. In order to protect BART's waterproofing membrane, Permittee shall not advance more than 10 feet deep at any location. The auger/boring machine shall be marked in such a way that the 10 foot depth is not exceeded. Permittee shall proceed with extreme caution from the 7-foot to 10-foot depth. Should any resistance occur, Permittee shall stop drilling immediately and notify the BART inspector. Work shall not proceed without the inspector's approval. If waterproofing membrane is damaged, it shall be repaired to BART's specifications at Permittee's sole expense. A BART inspector shall be present during the first boring within the BART right of way.

5. Permittee shall provide BART with a copy of the soil/water report when completed. Permittee shall contact Mr. Hamed Tafaghodi at (510) 464-6434 regarding the report.

6. Permittee shall have the duty and agrees to exercise reasonable care to properly maintain District's property pursuant to this Permit, including, but not limited to, removing debris dumped or placed on the Premises during the term of this Permit, from any source, and to exercise reasonable care inspecting for and preventing any damage to any portion of District's property.

7. Permittee acknowledges that said Work constitutes an encroachment upon District's property and agrees to perform said Work in accordance with and subject to the provisions of this Permit, applicable provisions of the "General Terms and Conditions Relating to Utility Permits," attached hereto and incorporated herein by reference, and applicable state laws and local ordinances. Where there is a conflict between the provisions of this Permit and the "General Terms and Conditions Relating to Utility Permits," this Permit shall prevail.

8. Permittee agrees to notify District's Construction Liaison, Edwin Kung at (510) 464-6445, at least 14 calendar days prior to any use of the Premises. Should Permittee require any utility hook-ups, Permittee will obtain all necessary permits and

pay all fees in connection therewith. Permittee shall not perform any work on District property until all necessary permits, licenses and environmental clearances have been obtained.

9. Permittee shall not use, create, store, or allow any hazardous materials and/or waste on the Premises. Hazardous materials are those substances listed in the Hazardous Substances List, Title 8, California Code of Regulations, G.I.S.O. Section 337-339, as may be amended from time to time, or those which meet the toxicity, reactivity, corrosivity or flammability criteria of the above Code, as well as any other substance which poses a hazard to health or environment.

10. District shall at all times have the right to go upon and inspect the Premises and the operations conducted thereon to assure compliance with any of the requirements in this Permit. This inspection may include, but is not limited to, taking samples of substances and materials present for testing.

11. It is the intent of the parties hereto that the Permittee shall be responsible for and bear the entire cost of removal and disposal for hazardous materials or waste introduced to the Premises during Permittee's period of use and possession of the Premises. Permittee shall also be responsible for any cleanup and decontamination on or off the Premises necessitated by such materials or waste.

12. Permittee shall further hold District, its directors, officers, employees, agents or representatives harmless from all responsibility, liability and/or claim for damages resulting from the presence or use of hazardous waste or materials on the Premises during the Permittee's use or possession of the Premises.

13. Permittee agrees to assume responsibility and liability for all damages, loss or injury of any kind or nature whatever to persons or property, caused by or resulting from or in connection with this Permit, or which may arise out of failure of Permittee's performance of its obligations hereunder.

14. Permittee shall defend, indemnify and hold harmless District, its directors, officers, agents and employees, from all claims, demands, suits, loss, damages, injury and liability, direct or indirect (including any and all costs and expenses in connection therewith), incurred by reason of or in connection with this Permit, or any act, or failure to act, of Permittee, its officers, agents, employees and contractors or any of them, under or in connection with this Permit. Permittee agrees at its own cost, expense and risk to defend any and all claims, actions, suits, or other legal proceedings brought or instituted against District, its directors, officers, agents and employees arising out of this Permit, and to pay and satisfy any resulting judgments.

15. Permittee agrees that no easement, lease or other property right is acquired by Permittee through this Permit.

16. Upon any use of District property by Permittee other than that authorized by this Permit, or upon failure of the Permittee to conform to any of the terms and conditions of this Permit, the District may terminate this Permit immediately.

17. Within 30 days of the expiration or earlier termination of a Permit, Permittee shall, at its sole expense, restore to its former condition all District property which has been disturbed by the Permittee, except as provided otherwise in the Permit. Restoration shall include, but not be limited to, removal of improvements, equipment, materials, debris, and the like, and repair of any damage. If Permittee fails to restore District property as required herein, the District may perform such restoration at Permittee's sole expense.

18. Permittee agrees to reimburse the District promptly for any damage done to District property in connection with the Work, or with the restoration of the property.

19. Insurance has been approved as stated in Exhibit B attached hereto and incorporated herein by reference.

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

Bv Desha R. Hill

Department Manager, Real Estate Services

ACCEPTED GETTLER – RYAN INC.

By Tomy Million (Grettler-Rym Inc.)

Title Project GeologisT

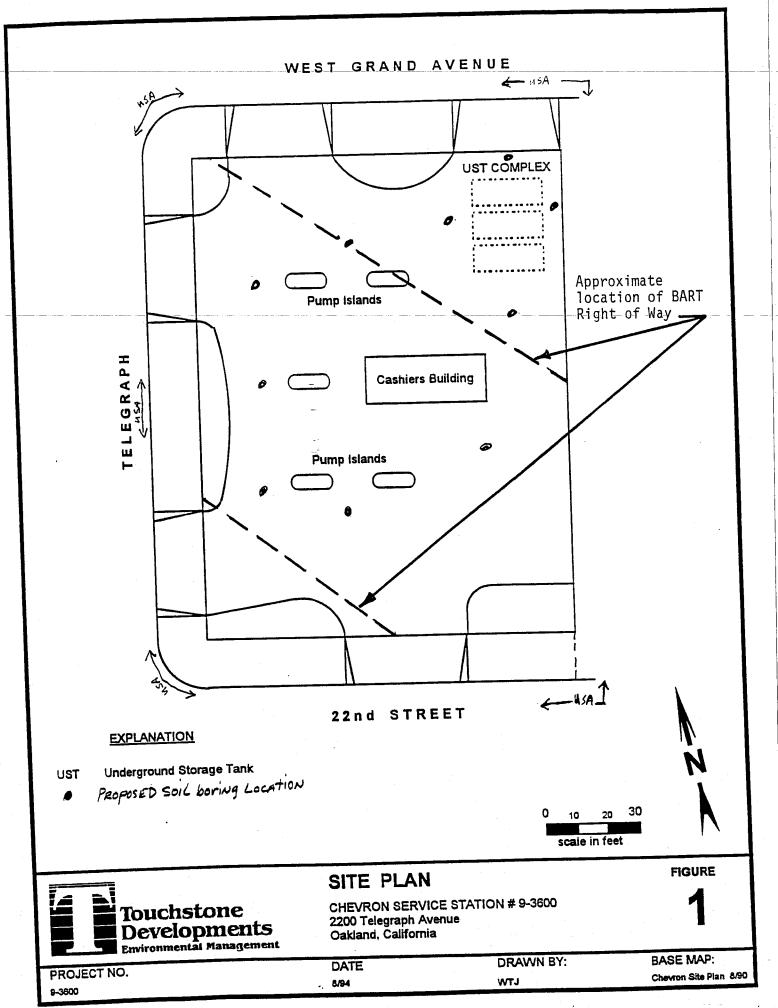
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Date_ //

Date_/1/08/00

Page 4 of 4

EXHIBIT "A"(1 of 2)



PHONE NO. : 916 631 1317

Nov. 01 2000 04:56PM P1

EXHIBIT "A" (2 of 2)



November 1, 2000

Mr. Gary Anderson Bay Area Rapid Transit District via fax 510.464.7583

Subject: -----Subsurface Investigation at Chevron Station #9-3600, 2200 Telegraph Avenue, Oakland, California

Mr. Anderson:

This letter is to provide you with the information requested in our telephone conversation of October 31, 2000.

- The proposed subsurface investigation will be conducted using hollow-stem augers. Soil samples will
 be collected using a split-spoon sampler. As we discussed, neither the augers or the sampling device will
 not be advanced deeper than 10 feet below surface grade (bsg). This permit condition should not affect
 our proposed scope of work. We expect to encounter water at approximately 5 to 8 feet bsg. We plan
 to drill to a maximum of 10 feet bsg to collect a grab water sample, then properly abandon the boring.
- 2. On completion of the drilling and sampling activities, each soil boring will be backfilled to surface grade with neat cement containing approximately 5% bentonite powder. Because we expect to encounter groundwater in each of the borings, the neat cement will be placed with a tremie pipe and pump. If the neat cement shrinks while setting, the borings will be topped off with additional neat cement so that when competed it is flush with grade.

This should answer the questions you had during our conversation. Please call me at 916 631, 1300 if I may be of further assistance. Please note that we plan to perform this subsurface investigation on Wednesday, November 8, 2000.

Sincerely, Gettler-Ryan Inc.

Stephen J. Carter, R.G. Senior Geologist

	G	etti	er—A	iyan,	Inc.	Log of Boring B-1		
						LOCATION: 2200 Telegraph Av	enue, Oaklan	ю, СА.
10JE	CT:	Chevr	on Serv	vice Stati	on No. 9-3600	SURFACE ELEVATION:		
R PR	OJECT	NO.	3468	395.01		WL (ft. bgs); DATE:	TIME:	
			11/08/			WL (ft. bgs): DATE:	TIME:	
ATE	FINIS	HED	11/08.	/00 /0.in		TOTAL DEPTH: 15 feet		
RILL	ING M	ETHO	0: 31	/2 in. Han	Evoloration	GEOLOGIST: Tony Mikacich		
RIL	ING C	OMPA	NY: B	By Area C	Exploration			
(feet)	(udd) Old	BLOWS/FT. *	SAMPLE INT. GRAPHIC LOG	soil class	· .	EOLOGIC DESCRIPTION		REMARKS
					ASPHALT - 6 Inches thick	u. own to dark brown (7.5YR 3/3), moist; 5 20% gravel (<1 inch diameter).	0% fine	
- 3-	1.1			SC	CLAYEY SANU (30) - Dro to medium sand, 30% clay,	, 20% gravel-(<t inch-diameter).<="" td=""><td></td><td>Spring backfilled with neat cement from the bottom to ground surface.</td></t>		Spring backfilled with neat cement from the bottom to ground surface.
6-	2.1			CL.		rown (7.5YR 3/3), becomes 70% fine to f gravei (<1 inch diameter). 5Y), moist; 90% clay, 10% fine sand, trad		
9	- 340				moist; 80% clay, 20% sit sand.	wn (7.5YR 3/3) mottled with gray to gr t, abundant iron oxide staining, trace of		
		1		λ	CLAY (CL) - brown to	green (2.5Y 5/3), wet; 60% ciay, 20% s	lit, 20%	
12	2				fine sand, trace of silt. Bottom of boring at 15		- -	Grab groundwate sample B-1-1//09/00 (W) collected at 12.5 feat.
	18-							
1	21							Page

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	ettle	r-R	yan, I	nc.	and the second	Log of Boring B-2			
0.15.07	Chowree	Sarv	ice Statio	n No. 9-3600	LCCATION: 2200 Tele	gra ph A venue , Oakl	and, CA.		
PROJECT	Chevior	SARA	95 01		SURFACE ELEVATION:				
TE STAP	TED:	1/08/	20.01		WL (ft. bgs): DATE				
TE FINIS		1/08/	100		WL (ft. bgs): DAT				
TE FINA	ETHOD:	31/	2 in. Hand	1 Auger	TOTAL DEPTH: 10 fee	and the second			
TLUING (OMPAN	r: Be	y Area E.	ploration	GEOLOGIST: Tony Mi	kacich			
(md	BLONS/FT. * Sample INT.	6	SOIL CLASS		GEOLOGIC DESCRIPTION		REMARKS		
(feet) PID (p)	N B	EB	80	ASPHALT - 6 Inches	thick				
			SM	STUTY SAND (SM) -	olive brown (2.5Y 4/4), moist; 70;	% fine to medium			
3-			SC	sand, 30% silt, hydro) - clive brown (2.5Y 4/4), moist: 7		Boring Dackfilled with neat cement from the bottom to ground surface.		
6 1.1 9-			SM	20% slit.	- brown (7.5YR 4/3), moist; 80% fi SAND (SP) - brown (7.5YR 4/3), m e of coarse sand, trace of shell fr	pist: 100% fine to			
_ 23.	8			Bottom of boring	at 10 feet bgs.				
12-									
- 15									
- 18									

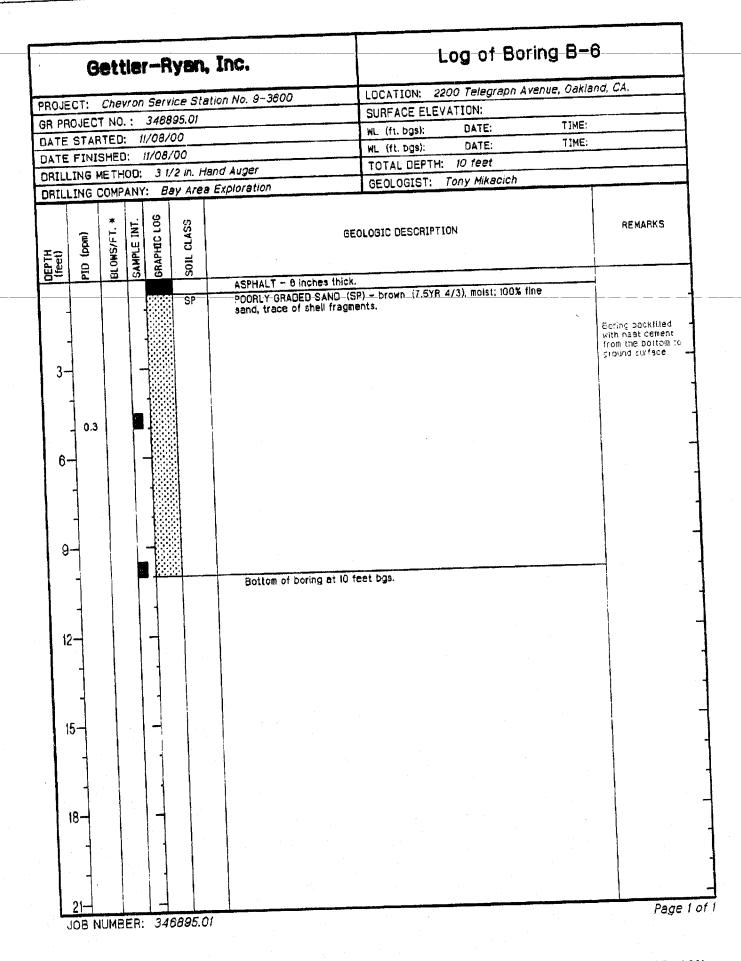
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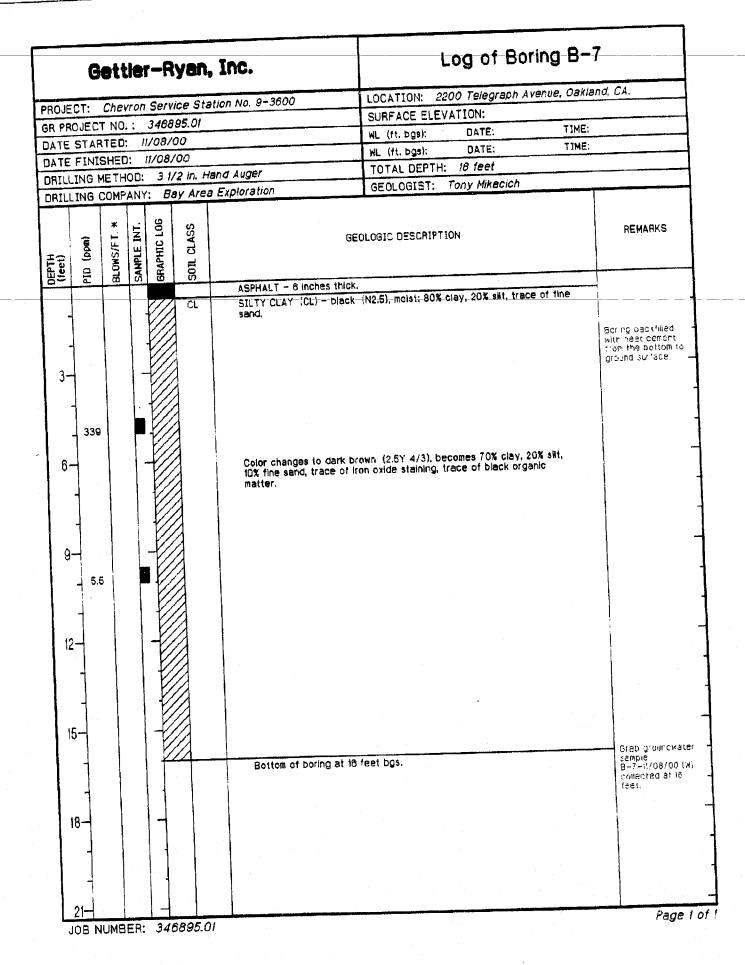
	G	ett	ler	- R	yan,	Inc.	Log of Boring	J-B-3	
		() h a		Socy	ico Stati	on No. 9–3600	LOCATION: 2200 Telegraph Avenue	e, Oakland, CA.	
	ECT:						SURFACE ELEVATION:		
	STAR					والمحمود والمستقلي والمستجد والمركب والمناسب والمستقل المنابع ويستعد	WL (ft. bgs): DATE:	TIME:	
	FINI						WL (ft. bgs): DATE:	TIME:	
AIE	TNG		<u>. "</u>	3 1/	2 in. Han	nd Auger	TOTAL DEPTH: 5.5 feet		
	TING P	OMP	ANY-	82	v Area t	Exploration	GEOLOGIST: Tony Mikacich		
(feet)	(mqq)	BLOWS/FT. *	ļ	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REM4	RKS
,Ë	DIA	ធ	Ś	5	8	ASPHALT - 8 Inches	IDICK		
		-		-	SM	SILTY SAND (SM) - 1	prown (7.5YR 4/3), moist; 80% fine to medium sa	nd,	
3-					SP	20% silt.	ID (SP) - brown (7.5YR 4/3), moist; 100% fine to	Boring bat with heat from the st	cement soltom to
6-	- 0.4					Bottom of boring at	5,5 feet bgs.		
9.			-						
12	5-1			-					
1	8-								
	21-								Page

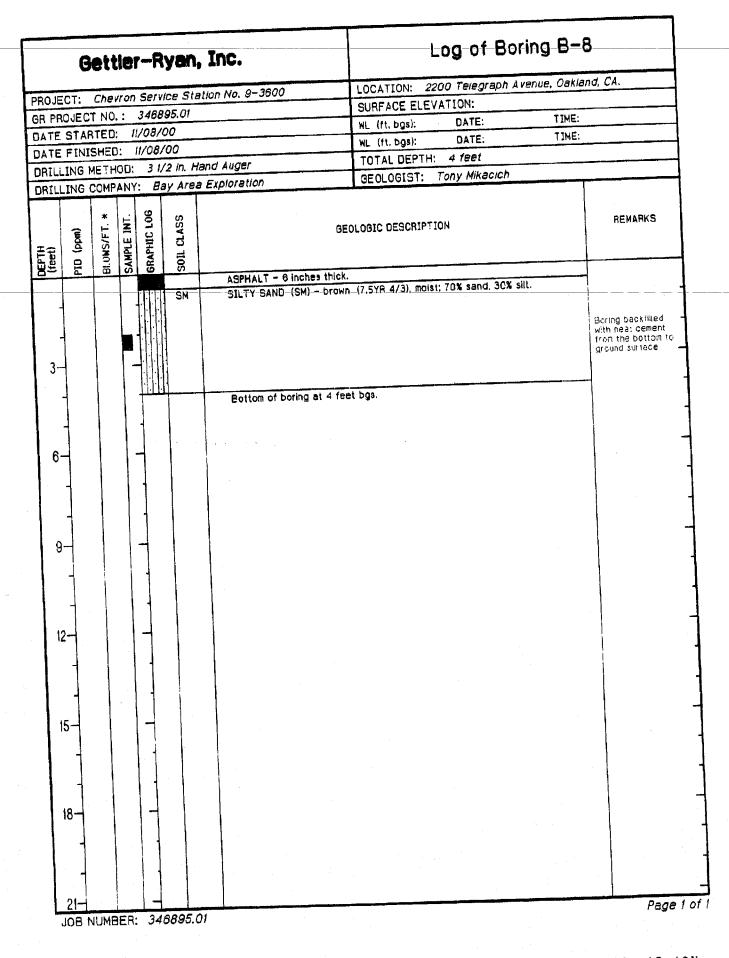
Gettler-Ryan, Inc.	Log of Boring B-	-4
	LOCATION: 2200 Telegraph Avenue, Oak	land, CA.
ROJECT: Chevron Service Station No. 9-3600	SURFACE ELEVATION:	
R PROJECT NO. : 346895.01	WL (ft. bgs): DATE: TIME	
ATE STARTED: 11/08/00	WL (ft. bgs): DATE: TIME	
ATE FINISHED: 11/08/00 RILLING METHOD: 3 1/2 in. Hand Auger	TOTAL DEPTH: 10 feet	
RILLING COMPANY: Bay Area Exploration	GEOLOGIST: Tony Mikacich	
pm) /FT. * IC LO6 LASS	GEOLOGIC DESCRIPTION	REMARKS
PTD (feet) BLOWS SOIL (PTD (PTD (PTD (PTD (PTD (PTD (PTD (PTD	Abiek	
	brown_(7,5YR 4/3), moist; 70% fine to medium sand,	7
	NG. (CB) - brown (7.5YR 4/3), moist: 100% fine to	Bering backfilled with reat cement from the bottom to ground surface.
0.8 6 6 6 6 7 6 7 7 8 7 8 7 8 7 8 7 7 8 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7	ND (SP) - brown (7.5 M 473, libist, 1006 file to of coarse sand, trace of clay, trace of shell to medium sand, 20% gravel.	
9- 0 Bottom of boring at	r SAND (SM/SC) - dark brown (7.5YR 3/3), moist; sand, 20% slit, 20% clay. t 10 feet bgs.	
12-		
15		
21-		Page

TO 19166311317

	G	ott	 e 1	-R	yan, 1	inc.	Log of Boring	8-2
						n No. 9-3600	LOCATION: 2200 Telegraph Avenue,	Oakland, CA.
DJE	CT:	Chev	ron	Servi			SURFACE ELEVATION:	
	OJECT						WL (ft. Dgs): URIC:	TIME:
	STAR						WL (ft. bgs): DATE:	TIME:
TE	FINIS	ETU	<u>· · ·</u>	3 1/	2 in. Han	d Auger	TOTAL DEPTH: 10 feet	
TIL		OMP	ANY	Ba	y Area E	xploration	GEOLOGIST: Tony Mikacich	
(feet)	PID (ppm)	BLOWS/FT. *	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS		GEOLOGIC DESCRIPTION	REMARKS
=		ā	ŝ	ন্দ্র	<u> </u>	ASPHALT - 6 inches th	lick,	
				///	sc	CLAYEY SAND WITH SI fine to medium sand, 30	IT (SC) - olive brown (2.5Y 4/4), moist; 60%	
3	1.5							Boring backfilled with neat cement from the bottom to ground surface
6-	1.3				SP	medium sand, 10% sint,	D (SP) - brown (7.5YR 4/3), moist: 90% fine to trace of shell fragments.	
9-	_ 0.9				CL	80% clay, 20% sand, i	Cark brown (7.5YR 3/3) mottled with brown, mole no hydrocarbon odor. ND (SP) - brown (7.5YR 4/3), moist; 100% fine to if shell fragments.	
	0.8					Bottom of boring at	10 feet bgs.	
12						-		
1!	5							
	- 18 -							
	21-		-					Page







TO 19166311317

APPENDIX C

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Report Number : 18300 Date : 11/12/00

Tom Bauhs Gettler-Ryan Inc. 3164 Gold Camp Dr., Suite 240 Rancho Cordova, CA 95670

Subject : 2 Water Samples and 15 Soil Samples Project Name : Chevron #9-3600 Project Number : GR#346895.01

Dear Mr. Bauhs

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

720 Oilve Drive, Suite D Davis, CA 95616 530-297-4800

ANALYTICAL ILC

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-1-6'		Matrix : Soli			Lab Number : 18300-01	
Sample Date :11/8/00 Parameter	Measured Value		Units	Analysis Method	Date Analyzed	
	< 0.0050	C.0050	mg/Kg	EPA 8260B	11/10/00	
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
Ethylbenzene		0.0050	mg/Kg	EPA 8260B	11/10/00	
Total Xylenes Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00	
	97.6		% Recovery	EPA 8260B	11/10/00	
Toluene - d8 (Surr) 4-Bramofluorobenzene (Surr)	103		% Recovery	EPA 8260B	11/10/00	

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-1-10'		Matrix : S	Soil	Lab Number : 18300-02	
Sample Date :11/8/00 Parameter	Measured Value	Method Reporting Limit	Units	Analysis Date Method Anal	
Benzene Toluene Ethylbenzene Total Xylenes Methyl-t-butyl ether	< 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050	0.0050 0.0050 0.0050 0.0050 0.0050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	11/10/00 11/10/00 11/10/00 11/10/00 11/10/00
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/ 00
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	99.9 103		% Recovery % Recovery		11/10/00 11/10/00

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

FROM TO TO



Report Number : 18300 Date : 11/12/00

Project Name : Chevron #9-3600 Project Number : GR#346895.01

Sample : B-1-11/08/00(W)		Matrix : V	Vater	Lab Number : 18300-04	
Sample Date :11/8/00	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Parameter Benzene Toluene Ethylbenzene	180 < 20 2200	20 20 20	ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B	11/11/00 11/11/00 11/11/00 11/11/00
Total Xylenes Methyl-t-butyl ether (MTBE)	1100 730	2020	ug/L ug/L	EPA 8260B	11/11/00 11/11/00
Dilsopropyi ether (DIPE) Ethyl-t-butyl ether (ETBE) Tert-amyl methyl ether (TAME)	< 20 < 20 < 20	20 _ 20 _ 20	ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B	11/11/00 11/11/00 11/11/00
Tert-Butanol Methanol	380 < 2000	- 200 2000	ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B	11/11/00 11/11/00 11/11/00
Ethanol 1,2-Dichloroethane 1,2-Dibromoethane	< 200 < 20 < 20	200 20 20	ug/L ug/L ug/L	EPA 8260B EPA 8260B	11/11/00 11/11/00
TPH as Gasoline	29000	2000	ug/L	EPA 8260B	11/11/00
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	95.5 105		% Recovery % Recovery	EPA 8260B EPA 8260B	11/11/00 11/11/00

K Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

A ANALYTICAL LLC

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

10000.00

Sample : B-2-6 '		Matrix : Soil			18300-05
Sample Date :11/8/00 Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene Toluene Ethylbenzene Total Xylenes Methyl-t-butyl ether	< 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050	0.0050 0.0050 0.0050 0.0050 0.0050	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	11/10/00 11/10/00 11/10/00 <u>11/10/00</u> 11/10/00
TPH as Gasoline	< 1.0 91.2	1.0	mg/Kg % Recoverv	EPA 8260B	11/10/00 11/10/00
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	85.8		% Recovery	EPA 8260B	11/10/00

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800 A ANALYTICAL LLC

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-2-10'		Matrix : Soil			18300-06
Sample Date :11/8/00	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Parameter Benzene Toluene Ethylbenzene Total Xylenes	< 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050	0.0050 0.0050 0.0050 0.0050 0.0050	mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8260B EPA 8260B EPA 8260B EPA 8260B	11/10/00 11/10/00 11/10/00 11/10/00
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	99.5 103 -		% Recovery % Recovery	EPA 8260B EPA 8260B	11/10/00 11/10/00

Approved By: Joel Kiff 1 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

ANALYTICAL ILG

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-3-5	Matrix : Soil			Lab Number : 18300-07		
Sample Date :11/8/00	t de accurad	Method		Analysis	Date	
Parameter	Measured Value	Reporting Limit	Units	Method	Analyzed	
	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00	
Total Xylenes Methyl-t-butyl ether	< 0.0050	0.0050	m g/K g	EPA 8260B	11/10/00	
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00	
	92.7		% Recovery	EPA 8260B	11/10/00	
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	85.2		% Recovery	EPA 8260B	11/10/00	

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Project Name : Chevron #9-3600 Project Number : GR#346895.01

Lab Number : 18300-08 Matrix : Soil Sample : B-4-5' Sample Date :11/8/00 Method Reporting Limit Analysis Method Date Measured Value Analyzed Units Parameter 11/10/00 EPA 8260B mg/Kg 0.0050 < 0.0050 Benzene 11/10/00 mg/Kg EPA 8260B < 0.0050 0.0050 Toluene 11/10/00 0.0050 mg/Kg EPA 8260B < 0.0050 Ethylbenzene EPA 8260B 11/10/00 mg/Kg 0.0050 < 0.0050 **Total Xylenes** 11/10/00 EPA 8260B 0.0050 mg/Kg < 0.0050 Methyl-t-butyl ether 11/10/00 EPA 8260B mg/Kg < 1.0 1.0 TPH as Gasoline 11/10/00 EPA 8260B % Recovery 93.3 Toluene - d8 (Surr) 11/10/00 EPA 8260B 87.3 % Recovery 4-Bromofluorobenzene (Surr)

Report Number : 18300

Date : 11/12/00

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number: 18300

Date : 11/12/00



Project Name : Chevron #9-3600 Project Number : GR#346895.01

Lab Number : 18300-09 Matrix : Soil Sample : B-4-10' Sample Date :11/8/00 Method Reporting Limit Analysis Method Date Measured Analyzed Units Value Parameter 11/10/00 EPA 8260B mg/Kg 0.0050 < 0.0050 Benzene 11/10/00 EPA 8260B mg/Kg 0.0050 < 0.0050 Toluene 11/10/00 mg/Kg EPA 8260B 0.0050 < 0.0050 Ethylbenzene 11/10/00 mg/Kg EPA 8260B 0.0050 < 0.0050 Total Xylenes 11/10/00 EPA 8260B mg/Kg < 0.0050 0.0050 Methyl-t-butyl ether EPA 8260B 11/10/00 mg/Kg 1.0 < 1.0 TPH as Gasoline 11/10/00 EPA 8260B % Recovery 93.1 Toluene - d8 (Surr) 11/10/00 EPA 8260B % Recovery 85.9 4-Bromofluorobenzene (Surr)

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	Appr	oved By:	Joel Kiff	N
720 Olive Drive, Suite D	Davis, CA 95616	530-297-	4800	

N. 0 V.K

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-5-5		Matrix : S	Soil	Lab Number : 18300-10						
Sample Date :11/8/00	Measured	Method Reporting	l luite	Analysis	Date Analyzed					
Parameter	Value	Limit	Units	Method	!=====					
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00					
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00					
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00					
•	< 0.0050	0.0050	mg/Kg	EPA 8260B	<u>11/10/00</u>					
Total Xylenes Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00					
TPH as Gasoline	< 1.0	1.0	m g /Kg	EPA 8260B	11/10/00					
Toluene - d8 (Surr)	94.7	~	% Recovery	EPA 8260B	11/10/00					
4-Bromofluorobenzene (Surr)	87.4 -	 	% Recovery	EPA 8260B	11/10/00					

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Joil Kill Approved By: Joe Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-5-10'		Matrix : S	Soil	Lab Number : 18300-11							
Sample Date :11/8/00	Measured	Method Reporting		Anaiysis	Date						
Parameter	Value	Limit	Units	Method	Analyzed						
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00						
Toluene	< 0.0050	C.CO50	mg/Kg	EPA 8260B	11/10/00						
	< 0.0050	0.0050	mg/Kg	EPA 8260B	1 1/10/00						
Ethylbenzene	< 0.0050	0.0050		EPA 8260B	11/10/00						
Total Xylenes Methyl⋅t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00						
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00						
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8260B	11/10/00						
4-Bromofluorobenzene (Surr)	88.7		% Recovery	EPA 8260B	11/10/00						

		foil hill
	Approved By:	Joel Kiff
720 Olive Drive, Suite D	Davis, CA 95616 530-297-	4800

ANALYTICAL LLC

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-6-5'		Matrix : S	Soll	Lab Number : 18300-12						
Sample Date :11/8/00	Measured	Method Reporting		Analysis	Date					
Parameter	Value	Limit	Units	Method	Analyzed					
Benzene	< 0.0050	0.0050	m g /Kg	EPA 8260B	11/10/00					
Toluene	< 0.0050	0.CO50	mg/Kg	EPA 8260B	11/10/00					
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00					
-	< 0.0050	0.0050	mg/Kg	EPA-8260B	11/10/00					
Total Xylenes Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00					
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00					
Toluene - d8 (Surr)	94,1		% Recovery	EPA 8260B	11/10/00					
4-Bromofluorobenzene (Surr)	86.0		% Recovery	EPA 8260B	11/10/00					

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-6-10'		Matrix : S	Soil	Lab Number : 18300-13				
Sample Date :11/8/00 Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed			
Benzena	< 0.0050	0.0050	m g /Kg	EPA 8260B	11/10/00			
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00			
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00			
Total Xylenes	< 0.0050	-0.0050	-mg/Kg	-EPA-8260B	11/10/00_			
Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00			
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00			
Toiuene - d8 (Surr)	99.6		% Recovery	EPA 8260B	11/10/00			
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	11/10/00			

ff 1 Approved By: Joe Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

DATE: 11/13/00 TIME: 10:20:30 AM

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ANALYTICAL LLC

Report Number : 18300 Date : 11/12/00

Project Name : Chevron #9-3600 Project Number : GR#346895.01

Lab Number : 18300-14 Matrix : Soil Sample : B-7-5' Sample Date :11/8/00 Method Analysis Method Date Measured Value Reporting Limit Analyzed Units Parameter 11/11/00 EPA 8260B mg/Kg 0.0050 < 0.0050 Benzene 11/11/00 EPA 8260B 0.0050 mg/Kg < 0.0050 Toluene 11/11/00 EPA 8260B 0.CO50 mg/Kg < 0.0050 Ethylbenzene 11/11/00 EPA 8260B 0.0050 mg/Kg < 0.0050 **Total Xylenes** 11/11/00 EPA 8260B < 0.0050 0.0050 mg/Kg Methyl-t-butyl ether 11/11/00 EPA 8260B mg/Kg < 1.0 1.0 **TPH as Gasoline** 11/11/00 EPA 8260B % Recovery 91.4 Toluene - d8 (Surr) 11/11/00 EPA 8260B % Recovery 91.5 4-Bromofluorobenzene (Surr)

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Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800 DATE: 11/13/00 TIME: 10:20:36 AM

FAGE 10 OF 19

ANALYTICAL LLC

Project Name : Chevron #9-3600 Project Number : GR#346895.01 Report Number : 18300 Date : 11/12/00

Sample : B-7-10'		Matrix : S	Soli	Lab Number :	18300-15
Sample Date :11/8/00	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Parameter	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00
Ethylbenzene	< 0.0050	-0.6050-	-mg/Kg	_EPA-8260B	11/10/00
Total Xylenes Methyl-t-butyl ether	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/10/00
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/10/00
Takiana de (Surr)	99.1		% Recovery	EPA 8260B	11/10/00
Toluene - d8 (Surr) 4-Brcmofluorobenzene (Surr)	91.0		% Recovery	EPA 8260B	11/10/00

Approved By: Joe Kiff 1 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number . 18300 Date : 11/12/00

Project Name : Chevron #9-3600 Project Number : GR#346895.01

Sample : B-7-11/08/00(W)		Matrix : V	Vater	Lab Number : 18300-16							
Sample Date :11/8/00 Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed						
Benzene Toluene	< 0.50 < 0.50 < 0.50	0.50 0.50 0.50	ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B	11/11/00 11/11/00 11/11/00						
Ethylbenzene Total Xylenes	< 0.50	0.50	ug/L	EPA-8260B	11/11/00						
Methyl-t-butyl ether (MTBE) Dilsopropyl ether (DIPE)	< 0.50 < 0.50 < 0.50	0.50 0.50 0.50	ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B	11/11/00 11/11/00 11/11/00						
Ethyi-t-butyl ether (ETBE) Tert-amyl methyl ether (TAME) Tert-Butanol	< 0.50 < 0.50 < 5.0	0.50 5.0	ug/L ug/L	EPA 8260B EPA 8260B	11/11/00 11/11/00						
Methanol Ethanol 1,2-Dichloroathan s	< 50 < 5.0 < 0.50	50 5.0 0.50	ug/L ug/L ug/L	EPA 8260B EPA 8260B EPA 8260B	11/11/00 11/11/00 11/11/00						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	11/11/00						
TPH as Gasoline	< 50	50	ug/L % Recovery	EPA 8260B EPA 8260B	11/11/00 11/11/00						
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	97.1 108		% Recovery		11/11/00						

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Report Number : 18300 Date : 11/12/00

Project Name : Chevron #9-3600 Project Number : GR#346895.01

Lab Number : 18300-17 Matrix : Soil Sample : SP-1,2,3,4 Sample Date :11/8/00 Method Reporting Limit Date Analysis Measured Analyzed Units Method Value Parameter 11/10/00 EPA 8260B mg/Kg < 0.0050 0.0050 Benzene 11/10/00 EPA 8260B mg/Kg 0.0050 < 0.0050 Toluane 11/10/00 EPA 8260B mg/Kg 0.0050 < 0.0050 Ethylbenzene 11/10/00 EPA 8260B mg/Kg 0.0077 0.0050 Total Xylenes 11/10/00 0.0050 mg/Kg EPA 8260B < 0.0050 Methyl-t-butyl ether 11/10/00 EPA 8260B 1.0 mg/Kg < 1.0 **TPH as Gasoline** 11/10/00 EPA 8260B % Recovery 99.8 Toluene - d8 (Surr) 11/10/00 % Recovery EPA 8260B 104 4-Bromofluorobenzene (Surr)

Approved By: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Page 2 of 3

🚭 11-15-:0 10:27 am 🛛 🕒 002 of 003

From: CLS Labs NC. at 🗉 1-916-638-4510

Analysis Report: Lead, EPA Method 6010

Client: Joel Kiff	Project No.: GR3346895.01
720 Olive Drive,	Contact: Joel Kiff
Suite D	Phone: (530)297-4800
Davis, CA 95616	Lab Contact: James Liang
Project: Chevron #9-3600	Lab ID No.: S4119 Job No.: 834119
Date Sampled: 11/08/2000	CDC Log No.: 18300
Date Received: 11/13/2000	Batch No.: M2K1114A
Date Extracted: 11/14/2000	Instrument ID: IP004
Date Analyzed: 11/14/2000	Analyst ID: JEFFD
Date Reported: 11/15/2000	Matrix: SOIL

· · · ·	ANALYTICAL RESULTS										
Lab / Client ID Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)							
1A / B-2-10' Pb (Lead)	7439921	6.2	2.5	1.0							
2A / B-1-10' Fb (Lead)	7439921	- 10	2.5	1.0							
3A / B-4-5' Pb (Lead)	7439921	26	2.5	1.0							
4A / B-1-6' Pb (Lead)	7439921	32	2.5	1.0							
5A / B-2-6' Pb (Lead)	7439921	9.6	2.5	1.0							
6A / B-3-5' Pb (Lead)	7439921	27	2.5	1.0							
7A / B-4-10' Pb (Lead)	7439921	27	2.5	1.0							
8A ∕ 8-6-5' Pb (Lead)	7439921	3.2	2.5	1.0							
9A / B-6-10' Pb (Lead)	7439921	3.6	2.5	1.0							
10A / B-5-10' Pb (Lead)	7439921	8.9	2.5	1.0							
11A \nearrow B-7-5' Pb (Lead)	7 43 9921	6.5	2.5	1.0							
12A / B-5-5' Pb (Lead)	7439921	17	2.5	1.0							
13A / B-7-10' Pb (Lead)	7439921	6.8	2.5	1.0							

CA DOHS ELAP Accreditation/Registration Number 1233

🚭 11-15-:0 10:28 am 🕒 003 of 003

From: CLS Labs NC. at 🗉 1-916-638-4510

Analysis Report: Lead, EPA Method 6010

Client: Joel Kiff 720 Olive Drive, Suite D Davis, CA 95616	Project No.: GR3346895.01 Contact: Joel Kiff Phone: (530)297-4800
DAOIS, CH JUGIG	Lab Contact: James Liang
Project: Chevron #9-3600	Lab ID No.: S4119 Job No.: 834119
Date Sampled: 11/08/2000	COC Log No.: 18300
Date Received: 11/13/2000	Batch No.: MZK1114A
Date Extracted: 11/14/2000	Instrument ID: IP004
Date Analyzed: 11/14/2000	Analyst ID: JEFFD
Date Reported: 11/15/2000	Matrix: SOIL
Date Reported: 11/15/2000	Matrix: SOIL

Lab / Client ID Analyte	ce CAS No. 	Results (mg/kg)	Rep. Limit (mg∕kg)	Dilution (factor)
14A × SP-1,2,3,4 Pb (Lead)	7439921	11	2.5	1.0
ND = Not detected a	t or above ind	licated Reportir	ng Limit	

CA DOHS ELAP Accreditation/Registration Number 1233

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-1-6' -1-10' -1-12.5' -1-11/08/00(W) -2-6'	11/08/00	11:00	_	<u> </u>			_		X	+-	5		╂	H	╂								+	╂	ΗX		┟╴╴┟╴	-+		<i>_</i>
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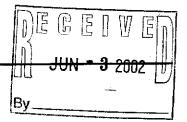
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TRANSMITTAL

TO: Ms. Karen Streich Chevron Products Company P.O. Box 6004 San Ramon, California 94583 DATE: May 30, 2002 PROJ. #: DG93600G.4CT1-1 SUBJECT: Chevron Station #9-3600 2200 Telegraph Ave. Oakland, California

FROM:

Tony P. Mikacich Project Geologist Gettler-Ryan Inc. 3140 Gold Camp Drive, Suite 170 Rancho Cordova, California 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	May 30, 2002	Monitoring Well Installation Report, dated May 30, 2002.

THESE ARE TRANSMITTED as checked below:

[] For review and comment	[] Approved as submitted	[] Resubmit _ copies for approval
[] As requested	[] Approved as noted	[] Submit _ copies for distribution
[] For approval	[] Return for corrections	[] Return corrected prints

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COMMENTS:

At the request of Chevron, GR will send copies to the following:

cc: Mr. Don Hwang, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Mr. Chuck Headlee, RWQCB-San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612 Mr. James Brownell, Delta Environmental Consultants, Inc., 3164 Gold Camp Dr., Suite 200, Rancho Cordova, CA 95670-6021

Mr. Tom Welch, First Union, 425 Market Street, Suite 2200, San Francisco, CA 94105



3164 Gold Camp Drive Suite 200 Rancho Cordova, California 95670-6021 916/638-2085 FAX: 916/638-8385

MONITORING WELL INSTALLATION REPORT

at

Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

Report No. DG93600G.4CT1-1 Delta Project No. DG93-600-G

Prepared for:

Ms. Karen Streich Chevron Products Company P.O. Box 6004 San Ramon, California 94583

Prepared by:

DELTA ENVIRONMENTAL CONSULTANTS INC. Network Associate GETTLER - RYAN INC. 3140 Gold Camp Drive, Suite 170 Rancho Cordova, California 95670

Tony P. Mikacich Project Geologist



David W. Herzog Senior Geologist R.G. 7211

May 30, 2002

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Table 2.	Groundwater Monitoring Data and Analytical Results
Table 3.	Groundwater Analytical Results – Oxygenate Compounds

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Figure 1. Vicinity Map

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Figure 2. Potentiometric Map

APPENDICES

- Appendix A. Field Methods and Procedures
- Appendix B. Monitoring Well Permits, Boring Logs, Well Completion Reports, and Certificate of Disposal
- Appendix C. Well Development/Monitoring and Sampling Field Data Sheets
- Appendix D. Wellhead Survey Report
- Appendix E. Chemical Analytical Report and Chain-of-Custody Forms

MONITORING WELL INSTALLATION REPORT

at

Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

Report No. DG93600G.4CT1-1 Delta Project No. DG93-600-G

INTRODUCTION

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. (Delta) network associate Gettler-Ryan Inc. (GR) has prepared this report for the installation of three groundwater monitoring wells at the subject site. The purpose of this investigation was to evaluate dissolved hydrocarbons in the area of the UST complex. The proposed scope of work included: obtaining the required well installation permits from the Alameda County Public Works Agency (ACPWA); updating the site safety plan; installing three groundwater monitoring wells; collecting soil samples from the well borings for description and possible analysis; developing and sampling the newly installed groundwater monitoring wells; analyzing selected soil and groundwater samples; surveying the new wellhead elevations; and preparing a report that presents the findings of the investigation. This work was originally proposed in Delta's, *Work Plan for Monitoring Well Installation*, dated January 24, 2002, and approved by Alameda County Health Cares Services Agency (ACHCSA) in letter dated January 30, 2002.

SITE DESCRIPTION

The subject site is an active Chevron service station located on the southeast corner of the intersection of Telegraph Avenue and West Grand Avenue in Oakland, California (Figure 1). Site facilities consist of a kiosk, three underground storage tanks (USTs), five fueling dispenser islands with canopy, and a bathroom and storage room. Bay Area Regional Transit (BART) tracks run beneath the center of the site in an underground tunnel at a depth of approximately 30 feet below surface grade (bsg). The approximate location of the BART right-of-way is presented on Figure 2. The monitoring well locations were placed outside the BART right-of-way. Locations of pertinent site features are shown on Figure 2.

PREVIOUS ENVIRONMENTAL WORK

- 1986: In October, Blaine Tech Services Inc. of San Jose, California, collected and analyzed soil and groundwater samples from a re-excavated, backfilled tank pit, from which a tank had been previously removed. Total Petroleum Hydrocarbons as gasoline (TPHg) were detected at concentrations as high as 44 parts per million (ppm) in a soil sample from a depth between 2 and 3 feet bsg. TPHg were detected at concentrations of 4.5 ppm from an additional soil sample collected from a depth of approximately 13 feet bsg in the former tank pit area. On October 24, 1986, one water sample was collected from the re-excavated tank pit. TPHg and benzene were detected in groundwater.
- 1986-87:During station reconstruction, sixteen vapor wells equipped with vapor sensors were installed because of the BART tracks that run beneath the center of the site. It is GR's understanding that the vapor DG93600G.4CT1-1

MONITORING WELL INSTALLATION REPORT Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California 2 of 4

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wells and sensors were abandoned and removed from the site.

- 1992: In October, Groundwater Technology, Inc. collected and analyzed one groundwater sample from former vadose zone well (VW-2-1). TPHg and benzene were detected at concentrations of 42,000 and 3,300 ppb, respectively. Depth to groundwater was 4.43 feet bsg during the October 13, 1992 sampling event. Groundwater samples were not analyzed for fuel oxygenating compounds.
- 1994: In July, gasoline product lines were removed in order to upgrade the system. Touchstone Developments of Santa Rosa, California, were onsite to observe the removal of product piping and collect soil samples for analysis from product line trenches at depths between 4.5 and 5.5 feet bsg. TPHg were detected at concentrations as high as 3.6 ppm in a soil sample collected at a depth of 5.5 feet bsg. Samples were not analyzed for fuel oxygenating compounds.
- 2000: In March, GR advanced eight hand-augered borings up to 16 feet bsg. TPHg or BTEX were not detected in soil samples collected from the borings.

Based on the available analytical soil data, trace concentrations of residual petroleum hydrocarbons are present beneath the site, mainly in the vicinity of the former USTs. Historical soil analytical data are presented in Table 1,

FIELD ACTIVITIES

To further evaluate the dissolved petroleum hydrocarbon plume in the vicinity of the UST complex, GR install three groundwater monitoring wells at the locations shown on Figure 2. Field work was conducted in accordance with GR's Field Methods and Procedures (Appendix A) and Site Safety Plan dated March 12, 2002. The wells were installed under drilling permits #WO2-0055, -0056, and -0057, which were obtained from the ACPWA. Copies of the permit are included in Appendix B. Underground Service Alert (USA) was notified prior to drilling at the site.

On March 12, 2002, a GR geologist observed Gregg Drilling Inc. (C57#485165) drill and install three monitoring wells (MW-1, MW-2, and MW-3) at the locations shown on Figure 2. A hand auger was used to clear the first five feet of each borehole of underground utilities. A limited access rig using 8-inch diameter hollow-stem augers drilled the well borings to approximately 20 feet bsg. Soil samples were collected from the well borings at 5-foot intervals for description and preparation of a log, and for possible chemical analysis. The boring logs are presented in Appendix B.

Well Installation

The wells were constructed of 2-inch diameter polyvinyl chloride (PVC) well casing and 0.020-inch machine slotted screen material to a depth of 20 feet bsg. The wells are screened from 5-20 feet bsg. Lonestar #3 sand was placed in the annular space from the bottom of the borings to approximately 2 feet above the well screen. The wells were then sealed with hydrated bentonite followed by neat cement. A water-resistant well box installed in concrete was placed over each well. An expandable waterproof well cap with lock was placed on the top of the well casings. Well construction details are shown on the boring logs in Appendix B. The well borings were drilled and soil samples were collected as described in GR's Field Methods and Procedures (Appendix A).

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MONITORING WELL INSTALLATION REPORT Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California 3 of 4

Drill cuttings were placed on-site in properly labeled 55-gallon drums pending disposal. One 4-point composite sample (SP1-4) was collected from the drummed soil for disposal characterization.

Well Development, Monitoring, and Sampling

Wells MW-1, MW-2, and MW-3 were developed and sampled on April 5, 2002. Depth-to-water was measured and the wells were checked for the presence of separate phase hydrocarbons (SPH). SPH were not found in the wells. The newly installed wells had abundant silt and required additional purging prior to becoming clear. Wells MW-1 and MW-3 did not de-water during development, but well MW-2 did de-water and was allowed to recover for 10 minutes prior to sampling. Following development, groundwater samples were collected from the wells. Purge water generated during development and sampling procedures were transported by Chevron's contractor Integrated Wastestream Management (IWM) for disposal at McKittrick. Well development procedures are included in Appendix A. A copy of the well development/monitoring and sampling field data sheets are included in Appendix C.

Wellhead Survey

Following installation of the wells, the elevations were surveyed by Morrow Surveying of West Sacramento, CA (California license #5161). Top of casings and vault box elevations were measured relative to Mean Sea Level (MSL) utilizing City of Oakland Benchmark (BM#37JC). GPS measurements, horizontal coordinates of the wells, and other site-specific details were also established. A copy of the surveyor's report is included in Appendix D.

RESULTS OF THE SUBSURFACE INVESTIGATION

Soil encountered during this investigation generally consisted of clay with sand and clay to approximately 10 to 15 feet bsg. Poorly graded sand and silty and clayey sand were generally encountered from approximately 15 feet bsg to the total explored depth of 20 feet bsg. Groundwater was first encountered at approximately 11 feet bsg as indicated by wet soil samples, and the static water level remained consistent with these levels. Based on groundwater monitoring data collected on April 5, 2002, shallow groundwater beneath the site is flowing to the southeast at a gradient of 0.005 (Figure 2). Detailed descriptions of the soil encountered during drilling are presented on the boring logs in Appendix B.

CHEMICAL ANALYTICAL RESULTS

A total of 12 soil samples from the well borings, one composite soil sample from the drummed cuttings, and three groundwater samples were submitted for chemical analysis. Analyses were performed by Lancaster Laboratories (ELAP No. 2116). Copies of the laboratory analytical reports and chains-of-custody are included in Appendix E.

Chemical Analytical Procedures

Soil samples from the well borings and drummed drill cuttings were analyzed for TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary-butyl ether (MtBE) by EPA Methods 8015M/8021B. DG93600G.4CT1-1

MONITORING WELL INSTALLATION REPORT Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California 4 of 4

The drill cuttings soil sample was also analyzed for total lead by EPA Method 6010B. Groundwater samples were analyzed for TPHg, BTEX and MtBE by EPA Methods 8015M/8021B, and for MtBE, tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (EtBE), and tertiary amyl methyl ether (TAME) by EPA Method 8260B.

Soil Analytical Results

TPHg, BTEX, or MtBE were not detected in soil samples from well boring MW-2 or MW-3, and benzene or MtBE were not detected in soil samples from MW-1. TPHg were reported in soil samples collected at 11.5 feet bsg in well boring MW-1 at concentrations of 3.2 ppm. Soil chemical analytical data are summarized in Table 1.

Groundwater Analytical Results

TPHg, BTEX, or oxygenates were not detected in groundwater samples from wells MW-2 or MW-3. TPHg and benzene were reported in the groundwater sample collected from monitoring well MW-1 at concentrations of 2,000 and 5.0 ppb, respectively. MtBE, TBA, and TAME were reported in groundwater from well MW-1 at concentrations of 370 ppb, 200 ppb, and 10 ppb, respectively, by EPA Method 8260B. These data are summarized in Tables 2 and 3.

WASTE DISPOSAL

Drill cuttings were removed from the site on April 12, 2002, by IWM for disposal at Republic Services Vasco Road Landfill of Livermore, California. A copy of the disposal confirmation form is included in Appendix B.

CONCLUSIONS

The purpose of this investigation was to evaluate soil and groundwater near the UST complex to determine the extent of petroleum hydrocarbons and MtBE.

Based on the soil chemical analytical data collected during this and previous site investigations, no significant hydrocarbon impact to soil is present, and additional assessment of soil conditions is not warranted at this time. Groundwater impact onsite appears limited to the immediate vicinity of the USTs.

The dissolved hydrocarbon plume is not delineated downgradient of the USTs, but assessment of the groundwater downgradient is restricted due to the location of the BART tunnel.

GR recommends that quarterly monitoring and sampling be initiated for wells MW-1, MW-2, and MW-3. Groundwater samples from all three wells should be analyzed for TPHg, BTEX, and MtBE by EPA Methods 8015M and 8021B, and for MtBE, TBA, DIPE, EtBE, and TAME by EPA Method 8260B.

Additional assessment work may be necessary, but GR recommends that at least four quarters of groundwater data be collected and reviewed prior to determining if additional work is warranted.

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TABLES

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Table 1 - Soil Chemical Analytical ResultsChevron Service Station #9-36002200 Telegraph AvenueOakland, California

	Sample	Sample	TPHg	Lead	В	Т	E	Х	MtBE
Sample ID	Depth (ft)	Date	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Historic	20000								
F4-1	2 to 3	10/31/1986	15						
F4-2	2	10/31/1986	44						
F4-3	2	10/31/1986	1.4						
F4-4	2	10/31/1986	<1.0						
P-1	4.5	7/25/1994	ND		ND	ND	ND	ND	
P-2	4.5	7/25/1994	ND		ND	ND	ND	ND	
P-3	5	7/25/1994	ND		ND	0.012	0.008	0.045	
P-4	5	7/25/1994	ND	- '	ND	ND	ND	ND	
P-5	5	7/25/1994	ND		ND	ND	ND	ND	
P-6	5.5	7/25/1994	3.6		ND	0.03	0.012	1.3	
P-7	5.5	7/25/1994	ND		ND	0.005	ND	0.007	
P-8	5	7/25/1994	ND		NÐ	ND	ND	ND	
B-1-6	6	11/8/2000	<1.0	32	< 0.005	<0.005	<0.005	<0.005	
B-1-10	10	11/8/2000	<1.0	10	<0.005	<0.005	<0.005	<0.005	
B-2-6	6	11/8/2000	<1.0	9.6	<0.005	<0.005	<0.005	<0.005	
B-2-10	ĨŌ	11/8/2000	<1.0	6.2	< 0.005	< 0.005	<0.005	<0.005	
B-3-5	5	11/8/2000	<1.0	27	<0.005	<0.005	< 0.005	<0.005	
B-4-5	5	11/8/2000	<1.0	26	<0.005	< 0.005	<0.005	<0.005	
B-4-10	10	11/8/2000	<1.0	27	<0.005	<0.005	<0.005	<0.005	
B-5-5	5	11/8/2000	<1.0	17	< 0.005	<0.005	<0.005	<0.005	
B-5-10	10	11/8/2000	<1.0	8.9	<0.005	<0.005	<0.005	<0.005	
B-6-5	5	11/8/2000	<1.0	27	<0.005	<0.005	<0.005	<0.005	
B-6-10	10	11/8/2000	<1.0	3.6	<0.005	<0.005	<0.005	<0.005	
B-7-5	5	11/8/2000	<1.0	6.5	<0.005	<0.005	<0.005	<0.005	
B-7-10	10	1/8/2000	<1.0	6.8	< 0.005	<0.005	< 0.005	<0.005	 `.
Recent									
MW-I-\$-6.5	6.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-I-S-11.5	11.5	3/12/2002	3.2		<0.0050	<0.0050	0.015	<0.015	<0.050
MW-1-S-16.5	16.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-1-S-20	20	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-2-S-6.5	6.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-2-S-11.5	11.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-2-\$-16.5	16.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-2-S-20	20	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-3-S-6.5	6.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-3-S-11.5	11.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-3-S-16.5	16.5	3/12/2002	<1.0		<0.0050	<0.0050	<0.0050	<0.015	<0.050
MW-3-S-20	20	3/12/2002	<1.0		< 0.0050	<0.0050	<0.0050	<0.015	<0.050
SP-1-4-S		3/12/2002	<1.0	110	<0.0050	<0.0050	<0.0050	<0.015	<0.050
SP-1-4-S		3/12/2002		74.5					
SP-1-4-S		3/12/2002		*3.340					

Explanation:

TPHg = Total Petroleum Hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

MtBE = Methyl tert-butyl ether

ppm = Parts per million

<u>Analytical Methods for Samples Collected 3/12/2002</u> TPHg by EPA Method 8015M BTEX/MtBE by EPA Method 8021B

Lead by EPA Method 6010B
<u>Analytical Laboratory for Samples collected 03/12/2002</u>

Lancaster Laboratories (ELAP # 2116)

Notes:

* = Waste Extraction Test (WET) Method

Table 2 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

WELL ID/ FOC* (fl.)	DATE	DTW (ft.)	GWE (ft.)	TPH-G (pph)	B (ppb)	Т (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1 17.07	04/05/02 ¹	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370 ¹
MW-2 16.82	04/05/02 ¹	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ¹
MW-3 16.52	04/05/02¹	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2 ¹
QA	04/05/02			<50	<0.50	<0.50	<0.50	<1.5	<2.5

9-3600.x1s/#386895

As of 04/05/02

1

Table 2

Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

EXPLANATIONS:

TOC = Top of Casing (ft.) = Feet DTW = Depth to Water GWE = Groundwater Elevation TPH-G = Total Petroleum Hydrocarbons as Gasoline B = Benzene T = Toluene E = Ethylbenzene X = Xylenes MTBE = Methyl tertiary butyl ether (ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance

 * TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

Well development performed.

¹ MTBE by EPA Method 8260.

Table 3

Groundwater Analytical Results - Oxygenate Compounds Chevron Service Station #9-3600 2200 Telegraph Avenue

Oakland, California

WELL ID	DATE	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
 MW-1	04/05/02	200	370	<2	<2	10
MW-2	04/05/02	<100	<2	<2	<2	<2
MW-3	04/05/02	<100	<2	<2	<2	<2

EXPLANATIONS:

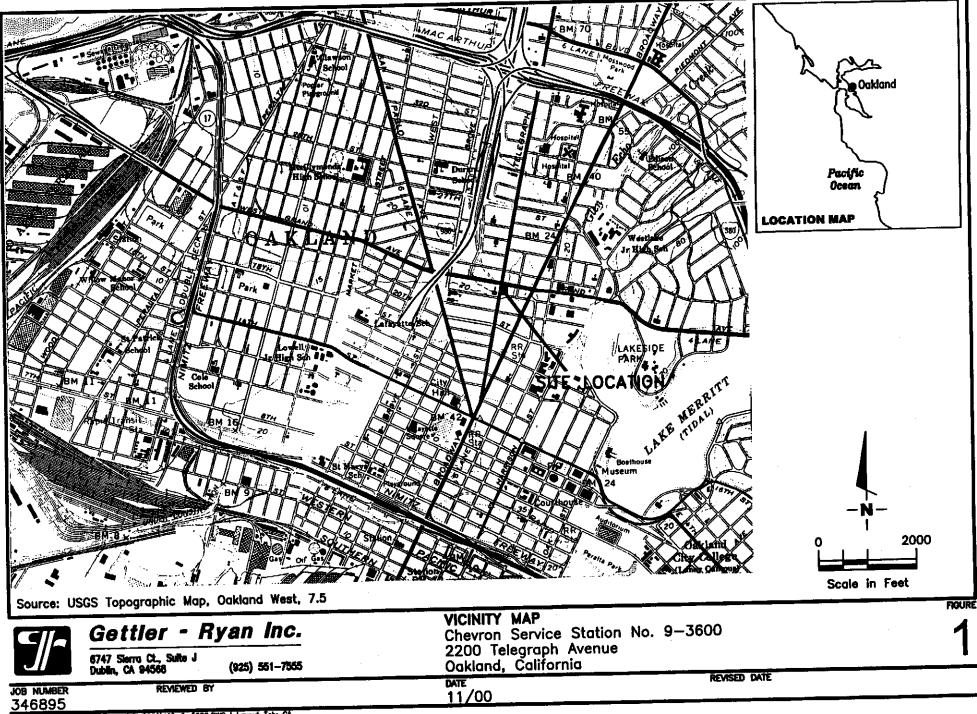
TBA = Tertiary butyl alcohol MTBE = Methyl tertiary butyl ether DIPE = Di-isopropyl ether ETBE = Ethyl tertiary butyl ether TAME = Tertiary amyl methyl ether (ppb) = Parts per billion

ANALYTICAL METHOD:

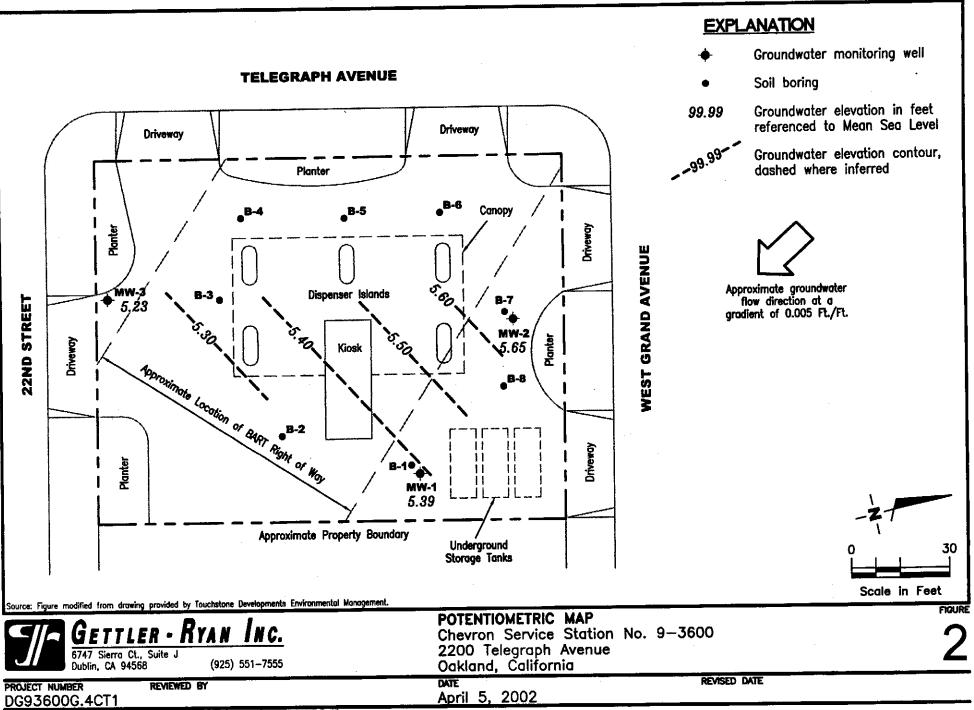
EPA Method 8260 for Oxygenate Compounds

FIGURES

.



FILE NAME: P:\ENMRO\CHEVRON\9-3600\VC-9-3600.DWG | Loyout Tob: CA



FILE NAME: P:\ENVIRO\CHEVRON\9-3600\A00-9-3600.DWG | Layout Tob: Well Install 5-02

APPENDIX A

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES WELL INSTALLATION

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Collection, preservation, and analysis of samples is performed in accordance with the California Code of Regulations Title 23, Division 3, Chapter 16, Underground Tank Regulations (June 2001), the Central Valley Regional Water Quality Control Board's Tri-Regional Board Staff Recommendations for Preliminary Investigation And Evaluation Of Underground Tank Sites (August 1990), Environmental Protection Agency SW-846 Methods (November 2000), and local agency guidelines.

Well borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring under the supervision of a California Registered Geologist. Soil samples are collected from the soil boring with a split-barrel sampling device fitted with 2-inch-diameter, clean brass tubes or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soils are described using the Unified Soil Classification System (ASTM 2488-93) and the Munsell Soil Color Chart or GSA Rock Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation to 48C628C. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to a California state-certified hazardous material testing laboratory. Samples are selected for chemical analysis based in part on:

- a. depth relative to underground storage tanks and existing ground surface
- b. depth relative to known or suspected groundwater
- c. depth relative to areas of known hydrocarbon impact at the site
- d. presence or absence of contaminant migration pathways
- e. presence or absence of discoloration or staining
- f. presence or absence of obvious gasoline hydrocarbon odors
- g. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform headspace analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap, or by placing a small amount of the soil to be screened in a sealable plastic bag. The soil is warmed in the sun to allow organic compounds in the sample to volatilize. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap or through the wall of the plastic bag. Headspace screening results are recorded on the boring log. Headspace screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Construction of Monitoring Wells

Monitoring wells are constructed in the well borings with Schedule 40 polyvinyl chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen, which generally extends from the total well depth to a point above the groundwater. An appropriately sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic-rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking waterproof cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Measurement of Water Levels

The top of the newly installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL). The surveyor also obtains the horizontal coordinates of the well location including GPS longitude and latitude. Depth-to-groundwater in the well is measured from the top of the well casing with an electronic water-level indicator. Depth-to-groundwater is measured to the nearest 0.01-foot, and referenced to MSL.

Well Development and Sampling

The purpose of well development is to improve hydraulic communication between the well and the surrounding aquifer. Prior to development, each well is monitored for the presence of floating product and the depth-to-water is recorded. Wells are then developed by alternately surging the well with a vented surge block, then purging the well with a pump or bailer to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Storing and Sampling of Drill Cuttings

Drill cuttings are either drummed, or stockpiled on and covered with plastic sheeting, and samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Drill cuttings samples are composed of four discrete soil samples, each collected from an arbitrary location. The four discrete samples are then composited at the laboratory prior to analysis.

Each discrete drill cuttings sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass sample tube into the stockpiled material by hand, mallet, or drive sampler. The sample tubes are then covered on both ends with Teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

APPENDIX B

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JAN-24-02 THU 06:14 PM ALAMEDA COUNTY PWA RM239	FAX NO. 5107821939 P. 04/12
Jan-21-02 11:15am From-Gattler-Ryan inc OCT-29-01 MUN US140 FW MLRUEDD VOULLASS FILL SECOND	+8166311317 T-609 P.004/008 F-345
PUBLIC WORKS PUBLIC WORKS PUBLIC WORKS PUBLIC WORKS PHONE (\$10) 570-5554 PAX (\$10)782-1839	N 94544-3395
DRILLING PERMIT A	PPLICATION
FOR APPLICANT TO COMPLETE LOCATION OF PROJECT ZZOO TELEGRAPH AVE; OAK/ANIC, CA.	PERMIT NUMBER W02-0055
(CHEVEEN # 9-3600)	PERMIT CONDITIONS Circled Permit Regularmonts Apply
CLIENT Name <u>CHEVRON</u> U.S.A. <u>Products</u> <u>Company</u> Address <u>P.O.BOX</u> <u>6004</u> <u>Phone</u> <u>MIA</u> City <u>Smi RAMON</u> , <u>CA</u> <u>Zip</u> <u>94583-0904</u> AFPLICANT Name <u>Towy</u> <u>Mikacich</u> <u>/Gettler-Rian</u> <u>TAC</u> . Name <u>Towy</u> <u>Mikacich</u> <u>/Gettler-Rian</u> <u>TAC</u> . <u>Res.</u> (916) <u>681-1317</u> Address <u>3140</u> <u>Gald</u> <u>Camp DR.</u> <u>Phone</u> <u>(916)</u> <u>681-1300</u> <u>al</u> City <u>Shitz 170</u> , <u>Rankcho</u> <u>Zip</u> <u>95670</u> <u>Corsovity</u> <u>CA</u> <u>TYPE OF PROJECT</u> <u>Well Construction</u> <u>Base construction</u>	A. GENERAL 1. A permit application should be submitted to as to arrive at the ACPWA office five days prior to proposed starting date. 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources- Well Completion Report. 3. Permit is void if project not begun within 90 days of approval date B. WATER SUPPLY WILLS 1. Minimum surface sold thickness is two inches of cement grout placed by trentic. 2. Minimum seal depth is 50 foot for municipal and Industrial wells or 20 thet for domastic and inigation
Cathodic Protociloa 17 General Li Water Supply Ci Contamination X Monitoring X Well Destruction Ci PROPOSED WATER SUPPLY WELL USE	wells unless a losser depth is specially approved. C. SKOUNDWATER MONITORING WELLS INCLUDING FIEZOMETERS I. Minimum conface ceal thickness is two invices of
New Domestic (1) Replayement Domestic (1) Municipal (2) Irrigation (2) Industrial (2) Other (2) DRULLING METTYOD:	cement growt placed by tremis. 2. Minimum seel depth for modilering wells is the maximum depth precidentle or 20 feet. D. GEOTECHNICAL Backfill bore hole by tremis with content grout or center grout/sand mixture. Upper two-three feet replaced in kin-
Mud Robery (1 Air Robery D Auger SC Cable II Other D DRILLER'S NAME to be a produced Brilling The Gregg Prilling	and the second
DRILLER'S NAME A DATE DE THE THE THE THE THE THE THE THE THE TH	F. WELL CART NO CHART WORk site. A separate permit is required for wells deeper than 45 feet.
WELL PROJECTS Drill Hole Diameterin. Maximum Cooling Diameterin. DepthOn. Surface Seat DepthR. Owner's Well Number <u>MW-1</u> \land M/n 554.	G. SPECIAL CONDITIONS Attriced # NOTE: One application must be submitted for each well or well destruction. Multiple borings on our application are accoptable for geotechnical and contamination investigations.
GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diumeter in Depth fl. BSTIMATED STARTING DATE	Called in 02/09/02/ APPROVEDDATE
I hereby agree to comply with all requirements of this permit and Alamoda County Or APPLICANT'S SIGNATURE Torug This main (6, 12) DATE 0	

JAN-24-02 THU 06:14 PM ALAMEDA COUNTY PWA RM239	FAX NO. 5107821939 P. 05/12
Jan-21-02 II:I5am From-Gettler-Ryan Inc OCT-29-01 MON 03:40 PM ALAMEDA VUUNIY MWK KIK200	+9168311317 T-809 P.005/006 F-345
ALAMEDA COUNTY PU	BLIC WORKS AGENCY
WATER RESOURCES SECTIO 399 ELMINURST ST. HAYWARD CA.: WORKS PHONE (518) 670-5354 FAX (510)782-1539	UN 94544-1375
DRILLING PERMIT A	PFLICATION
	FOR OFFICE USE
FOR APPLICANT TO COMPLETE	PERMIT NUMBER W02-0036
LOCATION OF PROJECT 22.00 TELEGRAPH AVE,	APN
(CHEVEON # 9-3600)	PERMIT CONDITIONS Circled Permit Requirements Apply
CLIENT NETRE CHEVRON U.S.A. Produts Company	
Address P. O. Rox 6004 Phone Alt	1. A permit application should be submitted so as to arrive at the ACPWA office five days paler to
	proposed starting date. 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources
Name TONY MIKAGICH/Gettler - (VAN INC.	Well Completion Report. 3. Permit is void if project not begun within 90 days of
Address 3/40 Gold CAMP DF., Phone (9/6) 631-131 City Shifts 170, RANCHO Zip 93670	epproval des S.L. Internet M. Letter M. Sector S.
CordovA, CA	1. Minimum seringe seat dicknoss is two inches of
TYPE OF PROJECT Well Construction Control Manual Investigations	2. Minimum seel depth is 50 feet for municipal and Industrial mells or 20 fast for demostic and irrigation
Cathodis Protection II General LI Water Supply DI Contamination	C. GROUNDWATER MONITORING WELLS
Maniloring X Well Destruction	INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE New Domestic () Replacement Domostic ()	cement grout placed by would. 2. Minimum seel depth for monitoring wells is the
Municipal () Inigation U Industrial () Other <u>N/A</u> ()	maximum depth practicable or 20 feet. D. GEOTECHNICAL
	p. Carol a Chinteria bore hole by trends with commt grout or come grout/and mixture.Upper two-date feet replaced in Mr.
Mud Rotary () Air Retary D Auger	or with compacted cullings.
DRILLING METHOD: Mud Rotary () Air Rotary D Auger () Cable () Other C: DRILLER'S NAME Wooda Jack Drilling Jack. () DRILLER'S NAME Wooda Jack Drilling Jack. () DRILLER'S NAME WOODA () DRILLER'S NAME WOODA () DRILLER'S NAME WOODA () DRILLING METHOD: DRILLING METHOD: DRILLER'S NAME WOODA () DRILLER'S NAME WOODA () DRILLER'S NAME WOODA () DRILLER'S NAME WOODA () DRILLER'S NAME () DRILLER'S () D	E. CATHODIC Fill hole mode zons with concrete placed by transfe. P. WELL DESTRUCTION
DRILLER'S LICENSE NO. C-57 770079	Send a map of work size A separate portroit is required for wells desper than 45 feet
	(C. SPECIAL CONDITIONS
WELL PROJECTS Drill Holo Dlamaior <u>B</u> in. Maximum Casing Dianetor <u>Z</u> In. Depth <u>ZO</u> ft. Surface Seal Depth <u>Z</u> ft. Owner's Well Number <u>MW-2</u>	Affache d. H. L NOTE: One application must be rebraited for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
GEOTECHNICAL PROJECTS Number of Borlage Maximum	approved 1 211-072
ESTIMATED STARTING DATE 03/02/02 03/12/02	APPROVED MATE DATE
I hereby agree to comply with all requirements of this permit and Alameda County O	
APPLICANT S SIGNATURE WITH STORE	<u>1/18/02</u> (
PLEASE PRINT NAME TONY MIKACICH (- Guttles - Popping) Re	v.5-13-00

FAX NO. 5107821939

Jan-21-02 11:15am From-Gettler-Ryan Inc OCT-29-01 MON 03:40 PM HLHREUM COUNTS FWAT MARCON +9166311317

T-609 P.006/006 F-345

ALAMEDA COUNTY PUBLIC WORKS AGENCY aller - Wa WATER RESOURCES SECTION 399 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (510) 670-5554 PUBLIC WORKS рах (510)782-1939 urchi DRILLING PERMIT APPLICATION FOR OFFICE USE FOR APPLICANT TO COMPLETE PERMIT NUMBER LOCATION OF PROJECT 2200 Telegraph WELL NUMBER APN_ OARIAND, CA. PERMIT CONDITIONS Circled Permis Requirements Apply HEVEON # 9-360 CLIENT Name CHEVEON U.SA. Products Company A. GENERAL 1. A pennil application should be submitted to at to arrive at the ACPWA office five days prior to Phone 600-Address P. O. Box 94585-0904 dy son Ramon Zło. proposed starting data. 2. Submit to ACPWA within 50 days after completion of emilied original Department of Water Reinurces-AFYLICANT Gettler-RVAN INC Well Completion Report. Name Tow Par (9/6) 631-1317 Phone (9/6) 631-1300+19 MIKACIC 3. Perceit is void if project not begun within 90 days of Address 3/40 Gold CAMP DR. approval data 95670 B. WATER SUPPLY WELLS Zip City Suitz 170, Concho). Minimum surface scal thickness is two inches of CordovA, CA coment grout placed by transic. 2. Minimum scal depth is 50 feet for municipal and TYPE OF PROJECT Industrial wells or 20 feet for domeatic and irrigation Geotophnical Investigation Well Construction wells unless a lesser depth is specially approved. **C1** General Cathodic Protocilon п GROUNDWATER MONITORING WELLS уЮ Contamination Water Supply INCLUDING PLEZOMETERS Well Destruction × Monitoring 1. Minimum surface out thiskness is two inches of PROPOSED WATER SUPPLY WELL USE cement grout placed by tremis. 2. Minimum seal depth for monitoring wells in the Replacement Domestic C) New Domestic [] L1 Infigation maximum dopth practicable or 20 fost. Municipal (3 Ο D. GEOTECHNICAL Office Industrial Ц Buckful bore hole by tremie with content growt or eccaci grout/send mixture. Upper two-three feet replaced in kin DRULLING METHOD: Auger 🗡 or with compacted suitings. α Air Kolary Mud Rolury £1 C 19 Other Cuble CATHODIC Fill hale snado zona with concrete placed by tranie. liwis ، ےبیا WELL DESTRUCTION DRILLER'S NAME /#0 Send a map of work size A separate permit is required bisy for wells deeper than 45 feet. DRILLER'S LICENSE NO. G. SPECIAL CONDITIONS Affaired HIL NOTE: One upplication must be submitted for each wall or well WELL PROJECTS destruction. Multiple borings on one application are acceptable Maximum Depth 20 p. Drill Hold Diameter iø. for geotechnical and sontamination investigations. Casing Diameter ln. Owant's Well Number MW-3 Surface Scal Depth ñ. mmor GEOTECHNICAL PROJECTS Approve Maximum Number of Botings. 1-24-0 Depth ł۳. Hole Diamoter ESTIMATED STARTING DATE APPROVED ESTIMATED COMPLETION DATE i hcroby agree to comply with all requirements of this permit and Alamede County Ordinance No. 73-68 1 H APPLICANT'S SIGNATURE Your Rev.5-13-00 6~ Gettler PLEASE PRINT NAME Toy

MAJOR DIVISIONS					TYPICAL NAMES		
		CLEAN GRAVELS		GW	Well graded gravels with or without sand, little or no fines		
SIEVE	GRAVELS	with little or no fines	•••	GP	Poorly graded gravels with or without sand, little or no fines		
SOILS NO. 200 S	COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	GRAVELS WITH		GM	Silty gravels, silty gravels with sand		
		over 15% fines		GC	Clayey gravels, clayey gravels with sand		
COARSE-GRAINED THAN HALF IS CONRER THAN		CLEAN SANDS		SW	Well graded sands with or without gravel, little or no fines		
COARS W HALF 1	SANDS	with little or no fines		SP	Poorly graded sands with or without gravel, little or no fines		
MORE TH	MORE THAN HALF 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	SILTS AND CLAYS			ML.	Inorganic silts and very fine sands, rock flour, silts with sands and gravels		
S OILS NO. 200				CL	Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays		
z				OL	Organic silts or clays of low plasticity		
ŪΩ		ID CLAYS		мн	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts		
FINE-		EATER THAN 50%		СН	Inorganic clays of high plasticity, fat clays		
MORE T				ОН	Organic silts or clays of medium to high plasticity		
н	IGHLY ORGAN	IC SOILS		PT	Peat and other highly organic soils		
	PID Volatil	e vapors in ppm	1		Observed contact		
(2.5		olor according to			— — — Inferred contact		
RI		Color Charts (199 le drive hammer			No soil sample recovered		
	140 j	bounds falling 30) inches.	•	"Undisturbed" sample		
		required to driv it are indicated (First encountered groundwater level Static groundwater level 		
G	T GETTLI	er - Ryan	Inc.		UNIFIED SOIL CLASSIFICATION ASTM D 2488-85		
FILE NAME	6747 Sierra Ct., Dublin, CA 9456 E: P:\PTYPES\BLOG-KEY.DWG	Suite J 8 (925) 5	51-7555		AND KEY TO SAMPLING DATA		

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Gettler-Ryan, Inc.				, Inc.	Log of Boring MW-1			
2001	50T+ Ch	ovron S	arvice St	ation No. 9-3600	LOCATION: 2200 Telegraph Avenue, Oakland, California			
	ROJECT N				CASING ELEVATION:			
	E STARTE				WL (ft. bgs): DATE:	TIME:		
	FINISHE				WL (ft. bgs): 11.20 DATE: 03/12/02	TIME: 13:09		
				- Limited Access Rig	TOTAL DEPTH: 20 feet			
_				rilling, Inc.	GEOLOGIST: Tony Mikaclch			
UEPTH (feet)	SAMPLE NUMBER	SAMPLE INT. GRAPHIC LOG	T		DLOGIC DESCRIPTION	WELL DIAGRAM		
	<u>0</u>		0,	Asphalt - 6 inches thick.				
1			SC	CLAYEY SAND (SC)		a 40 PVC		
3 - 6 - 9 - 12	MW-1-8.5		CL		brown to dark brown (7.5YR 3/3), moist; dium sand, trace fine gravel. 5Y), moist; 90% clay, 10% fine sand, faint	ncn/		
15-			SC	CLAYEY SAND (SC) - br fine sand, 40% clay, abu	rown (7.5YR 3/3), wet, medium dense; 60% Indant iron oxidation.	cap 2" matchine slotted PVC (0.020		
18-	MW-1-18.1		CL	SANDY CLAY (CL) - bro mottling, wet; 70% clay,	own to green (2.5Y 5/3), trace gray 30% fine sand, abundant iron oxidation.			
	_ MW-1-20	╵┍╸ᠮ╯	1	Bottom of boring at 20	feet bgs.			
	1		ł					

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	66,	L	31 -	nyai	n, Inc.		Log of Boring MW-2		
PROJ	ECT: Ch	evro	on Se	rvice S	tation No. 9-3600	LOCATION: 2200 Telegraph Aven	ue, Oakland, Califor		
GR P	ROJECT N	10. :	DGS	93600G	ACTI	CASING ELEVATION:			
DATE	E STARTE	D;	03/1	2/02		WL (ft. bgs): DATE:	TIME:		
DATE FINISHED: 03/12/02				12/02		WL (ft. bgs): 11.65 DATE: 03/12/02	TIME: 13:16		
DRIL	LING MET	HOD	I: 8	in. HSA	- Limited Access Rig	TOTAL DEPTH: 20 feet	. <u></u>		
DRIL	LING COM	PAN	Y: 6	Gregg D	prilling, Inc.	GEOLOGIST: Tony Mikacich			
DEPTH (feel)	sample number	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEO	LOGIC DESCRIPTION	WELL DIAGF		
					Asphalt - 8 inches thick.		╶╴╴┲╏╲┟┍━┓┢		
3		-		CL	CLAY (CL) – black (N.2.5) fragments.), moist; 80% clay, 20% silt, trace shell	+- 2" blank schedule 40		
6 - - 9	MW-2-8.5								
 12	M₩-2-11.6				Color changes to dark bro clay, 20% silt, 10% fine sa black organic matter.	own (2.5Y 4/3), moist, very plastic; 70% nd, abundant Iron oxidation, abundant	cap Cap 111111111111111111111111111111111111		
15 -	MW-2-18.5	5			Becomes wet.		2" me		
- 18	-	_		SP	POORLY GRADED SAND (100% very fine sand, trac	SP) – light plive brown (2.5Y 5/3), wet; e iron oxidation.			
	MW-2-20		<u> </u>	a			<u> </u>		
-		Ī			Bottom of boring at 20 fe	eet Dgs.			

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ROJECT: Chevron Service Station No. 9–. R PROJECT NO. : DG936006.4CT1 ATE STARTED: 03/12/02 ATE FINISHED: 03/12/02 RILLING METHOD: 8 in. HSA – Limited Act	600 LOCATION: 2200 Telegraph Aver CASING ELEVATION: WL (ft. bgs): DATE: WL (ft. bgs): 10.60 DATE:	······································
R PROJECT NO. : DG936006.4CT1 ATE STARTED: 03/12/02 ATE FINISHED: 03/12/02	CASING ELEVATION: WL (ft. bgs): DATE:	······································
ATE STARTED: 03/12/02 ATE FINISHED: 03/12/02		
ATE FINISHED: 03/12/02	WL (ft. bgs): 10.60 DATE: 03/12/02	TIME:
		TIME: 13:05
	ess Rig TOTAL DEPTH: 20 feet	
RILLING COMPANY: Gregg Drilling, Inc.	GEOLOGIST: Tony Mikacich	
(feet) SAMPLE NUMBER SAMPLE INT. GRAPHIC LOG SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
Asphalt -	6 inches thick. AY (CL) - brown (7.5YR 4/3), moist.	
3- 6- MW-3-8.6	· · · · · · · · · · · · · · · · · · ·	220 Inchi
2- SM SILTY SA	RADED SAND (SP) - brown (7.5YR 4/3), wet; 96% fine lit, abundant iron oxidation, abundant black organic ND (SM) - brown (7.5YR 4/3), wet; 80% fine sand, 20% ant iron oxidation, trace gravel.	cap
MN-3-20	nges to light olive brown (2.5Y 5/3); trace white Ion. Doring at 20 feet bgs.	
21		· · ·

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

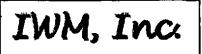
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED



INTEGRATED WASTESTREAM MANAGEMENT, INC. 030 Aries Avenue, Milpitas, ca. 93035 Phone: 408.042.8955 FAX: 408.942.1499

CERTIFICATE OF DISPOSAL

Generator Name:	Chevron Products Company	Facility Name:	Chevron #9-3600
Address:	6001 Bollinger Canyon Road	Address:	2200 Telegraph Avenue
	San Ramon, CA 94583		Oakland, CA
Contact:	Bob Cochran	Facility Contact:	Tony Mikacich, Gettler-Ryan
Phone:	925-842-9500	Phone:	916-631-1300

IWM Job #;	92134-DS
	5 Drum(s) of
Description of Waste:	Non-Hazardous
	Soil
name and Dates	April 12, 2002
Removal Date:	RSVRL120402

Transp	orter Information	Dispos	Disposal Facility Information			
Name:	IWM, Inc.	Name:	Republic Services Vasco Road Landfill			
Address:	950 Ames Avenue	Address:	4001 N. Vasco Road			
	Milpitas, CA 95035		Livermore, CA 94550			
Phone:	(408) 942-8955	Phone:	(925) 447-0491			

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

Of For William 2.

Authorized Representative (Print Name and Signature)

4/12/02	
Date	

William T. DeLon

APPENDIX C

Apr-09-02 06:19am Client/ Coev Facility	From-Gettler-Ryan ind Ton 9-3600		+925 551 7		-098 P.003/00	0 F-1(
•	1200 m-1 1		. Job#:	386895		
_	2200 Telegraph	Avenue	_ Date:		4/05/02	
City:	Oakland, CA		_ Sampler:		-7	_
· · · · · · · · · · · · · · · · · · ·						
Well ID	MW-1	_ Well Cond	ition;	c		
Well Diameter	<u></u>	. Hydrocarbo		Amount B	ailad	
Total Depth	20.00 #	Thickness:		product/wat		
Depth to Water	11.68 ft.	Volume Factor (VF)	2" = 0.17 6" =	3" = 0.38 • 1.50	4" : 12" = 5.80	= D.66
	<u>8.3</u> 2.x	VF <u>17 = 1.4</u>		= Estimated Pur	BE Volumer / 4	
Purge	Disposable Bailer		Sampling		<u> </u>	
Equipment:	Bailer Stack			isposable Bail	er	•
	Suction		В	ailer		
	Grundtos			ressure Bailer rab Sample		
	Other: 2" stul	RA-ICE_	Other:			
Starting Time:	1258		-	·		
Sampling Time:			Conditions:	Clou	of Ison:	stde_
Purging Flow Rate		- Wațer Ci	plar: <u>Brow</u>	~ 0		•
Did well de-water		<u>. com.</u> Sedimen	t Description:	ery silm	FINC	- Mary D
		if yes; *	lime:	Volume):	{dal.
1-	lume pH pH	Conductivity µmbos/cm	Temperature	D.Q.	ORP A	lcalinity
	<u>5</u> 8.28		•C	(mg/L)	(mV)	(ppm)
1308 3-			65.8			
1311 4.			_ 66.1			
1316 le.		1136	66.2			
1319 7.	8.07	_ <u>1/2/</u>	<u>66.4</u> -			
B23 q.	0 8.10		<u>lale-8</u> _			
1327 10.0		1140	66.5			
1532 He	120 7.62	1262	<u>9.99</u>		•	
	<u> </u>	1281	<u></u>			
<u> </u>			<u> </u>			
		1302	<u>loc.6</u> _			
		17/21	66.8	·		
1336 14.0	2 7.10	1364				
1336 14.0 1406 401	2 <u>7.10</u>	BORATORY INFO	DRMATION			
1336 14.0 1406 401 SAMPLE ID (11)	2 <u>7.10</u>	BORATORY INFO	DRMATION		ANALYSES	
1336 14.0 1406 401 SAMPLE ID (11)	2 7.10 LA - CONTAINER REFE	BORATORY INFO	DRMATION	A	7: HOVER I MAR	<u>L</u> .
1336 14.0 1406 401 SAMPLE ID (11)	2 7.10 LA - CONTAINER REFE	BORATORY INFO	DRMATION		7: HOVER I MAR	<u></u>
1336 14.0 1486 407 SAMPLE ID 18 ALUS -1 6	2 7.10 LA - CONTAINER REFF EUGAUTAL Y	ABORATORY INFO	DRMATION VPE LABORAT	1. 1771-1 (S)0x	7: 135500 1 mg	2
1336 14.0 1466 401 SAMPLE ID (1) ALUS-1 (6)	2 7.10 LA - CONTAINER REFE	ABORATORY INFO ING. PRESERV. T HCC S:114 / PC	DRMATION	Eviten 26	7: 135500 1 mg	

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Apr-09-02 06	:20am From-Ge	ettler-Ryan Inc		+925 551 78			
Client/ Facility	0.2	600			386895		
•				Job#: _			
Address	s: <u>2200 T</u>	elegraph Ave	enue	Date: _		4/05/02	
City: _	Oaklan	d, CA		Sampler: _	<u> </u>	R	
Wel	1 1D	MW-2	Well Conditi	ion:	0.	.k	
Well Diam Ke-Developme	neter	2″in,	Hydrocarbor Thickness:	۳ ø	Amount Ba		r
Total Dep		19.98 tt.	Volume	2" = 0.17			<u>lgai.</u>
Depth to 1	Water	11.17 #	Factor (VF)		3" ≈ 0.38 1.50	12" = 5.80	4" = 0,66
		<u>8-81</u> x vi	F <u>.17 = 1.4</u>	XID ₩ (case volume)	= Estimated Pur	rue Volume:	15- Qual
Purge	Disp	osable Bailer		ampling	•		•
Equipment				quipment: 🗇	isposable Bai	iler	
	Stack Stack				siler D		
	Grun	dfos			ressure Baller rab Sample	ſ	
	Othe	1) 2" STEEL	BAZLER			-	
Starting Ti	me:	1137	Weather	Conditions:	Pry. Cl	S.D.A	
				conditions.			
Sampling 7	lime:	1413		olor: <u>Brewn</u>		Odor:	NO
-			Water Co			Odor:	MO
Sampling 1	w Rate:	1413	Water Co	blor: <u>Brown</u> t Description: <u></u> Time: <u>1200</u>		Odor:	
Sampling 1 Purging Flo Did well de	w Rate:		Water Co	blor: <u>Brown</u> t Description: <u></u> Time: <u>1200</u>		Odor:	
Sampling T Purging Flo Did well de Time	Volume		Water Co	olor: <u>Brown</u> t Description: <u></u>		Odor:	(cel Alkalinity
Sampling T Purging Flo Did well de Time	Volume	415	Water Co <u>_eom.</u> Sediment If yes;] Conductivity	olor: <u>Brown</u> t Description: <u>S</u> Time: <u>1200</u> <i>Let Leoguer</i> Temperature •C		Odor: 	(ae)
Sampling T Purging Flo Did well de Time	Volume	у <u>с</u> 5 рн <u>7.16</u>	Water Co Sediment If yes; 7 Conductivity hmhos/cm S? (blor: <u>Brown</u> t Description: <u>C</u> Time: <u>1200</u> Let Leoguen Temperature -C <u>107.9</u>		Odor: 	(ael Alkalinity
Sampling T Purging Flo Did well de Time	vw Rate: e-water? Volume (gal.) (. 2	yes ph	Water Co _ <u>eom.</u> Sediment If yes; T Conductivity µmhos/cm	olor: <u>Brow N</u> t Description: <u>C</u> Time: <u>1200</u> Let Leonver Temperature =C <u>107.9</u>		Odor: 	(cel Alkalinity
Sampling T Purging Flo Did well de Time	volume (gal.) 	у <u>с</u> 5 рн <u>7.16</u> <u>2.28</u>	Water Co Sediment If yes; ↑ Conductivity µmhos/cm ?? ()?? ()?	blor: <u>Brown</u> t Description: <u>C</u> Time: <u>1200</u> <i>Let Leogues</i> Temperature -C <u>107.9</u> <u>107.1</u> <u>107.1</u>		Odor: 	(ael Alkalinity
Sampling T Purging Flo Did well de Time C C C C C C C C C C C C C C C C C C C	volume (gal.) (.S <u>3.0</u> <u>4.5</u> (6.0 7.5	ус5 рн <u>7.16</u> <u>7.28</u> <u>7.38</u>	Water Co <u>com.</u> Sediment If yes; T Conductivity μmhos/cm <u>/ Σ 2 (</u> 	olor: <u>Brow N</u> t Description: <u>C</u> Time: <u>1200</u> Let Leonver Temperature =C <u>107.9</u>		Odor: 	(ael Alkalinity
Sampling T Purging Flo Did well de Time LISO LISO LISO LISO LISO	volume (gal.) (.s <u>4.s</u> (e.o	ус5 рн 7.16 2.28 7.38 7.48	Water Co Sediment If yes; Τ Conductivity μmhos/cm <u>/3? (</u>	blor: <u>Brown</u> t Description: <u>C</u> Time: <u>1200</u> Let Leoguen Temperature =C <u>107.9</u> <u>107.1</u> <u>107.1</u> <u>107.9</u> <u>107.9</u>		Odor: 	(ael Alkalinity
Sampling T Purging Fid Did well de Time CCI MCCL INFO MCCL INFO MC	volume (gal.) (.S <u>3.0</u> <u>4.5</u> (6.0 7.5	915 pH 7.16 7.28 7.38 7.48 7.48	Water Co <u>com.</u> Sediment If yes; ↑ Conductivity µmhos/cm <u>/3? (</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u> <u>/2.3</u>	blor: $\underline{Brow N}$ t Description: \leq Time: $\underline{1200}$ $\underline{1cr}$ $\underline{2cover}$ $\underline{1cr}$		Odor: 	(ael Alkalinity
Sampling T Purging Flo Did well de Time (145) (150) (150) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (150) (159) (150) (159) (150) (1	ww Rate:	915 pH 716 7.28 7.38 7.48 7.48 7.38	- Water Co <u>com</u> . Sediment - If yes; 7 Conductivity μmhos/cm - <u>/3</u> ? [- <u>/22[</u> - <u>/226</u> - <u>/232</u> - <u>1230</u> - <u>1240</u>	blor: <u>Brown</u> t Description: <u>C</u> Time: <u>1200</u> Let Leoguen Temperature =C <u>107.9</u> <u>107.1</u> <u>107.1</u> <u>107.2</u> <u>107.2</u> <u>107.2</u>		Odor: 	(asi Alkalinity
Sampling T Purging Fid Did well de Time CCI MCCL 1140 1145 1150 1155 1159 1159 11214	W Rate: e-water? Volume (gal.) (.5 3.0 4.5 6.0 7.5 9.0 10.5	405 pH 7.16 7.28 7.38 7.48 7.48 7.48 7.48 7.48 7.48 7.38 7.48 7.38 7.48	- Water Co <u>com</u> . Sediment - If yes; ↑ Conductivity µmhos/cm - /3? (- /2.2 (- /2.3 (plor: \underline{BAOWA} t Description: \underline{C} Time: $\underline{J200}$ Let Leoguese Temperature =C $\underline{107.9}$ $\underline{107.1}$ $\underline{107.2}$		Odor: 	(cel Alkalinity
Sampling T Purging Flo Did well de Time LISO LISO LISO LISO LISO LISO LISO LISO	ww Rate: e-water? Volume (gal.) (.5 3.0 4.5 6.0 7.5 9.0 10.5 12.0	915 pH 7.16 7.28 7.38 7.38 7.48 7.41 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.41	- Water Co <u>com</u> . Sediment - If yes; T Conductivity μmhos/cm - <u>/3</u> ? (- <u>/2</u> ? (plor: $\underline{B}_{AOW} A$ t Description: \leq Time: $\underline{1200}$ 2 or 200 ver Temperature =C $\underline{107.9}$		Odor: 	(ael Alkalinity
Sampling T Purging Flo Did well de Time 	volume (gal.) (.5 3.0 4.5 4.5 (b.0 7.5 12.0 [3.5]	405 pH 7.16 7.28 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.16 7.16 7.16 7.10	- Water Co <u>com</u> . Sediment If yes; T Conductivity μmhos/cm <u>/3? (</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/3.18</u> <u>/3.26</u>	plor: \underline{BAOWA} t Description: \underline{C} Time: $\underline{J200}$ Let Leoguese Temperature =C $\underline{107.9}$ $\underline{107.1}$ $\underline{107.2}$		Odor: 	(asi Alkalinity
Sampling T Purging Flo Did well de Time 	bw Rate: water? Volume (gal.) (.5 	4.5 pH 7.16 7.28 7.28 7.28 7.28 7.28 7.28 7.41 7.38 7.26 7.16 7.16 7.16 7.16 7.10	Water Co <u>apm.</u> Sediment If yes; T Conductivity µmhos/cm <u>/3? (</u> <u>/2.32</u> <u>12.30</u> <u>12.40</u> <u>12.96</u> <u>/3.20</u> <u>/3.18</u> <u>/3.26</u>	plor: $\underline{Baow A}$ t Description: \underline{C} Time: $\underline{J200}$ Let $2coover$ Temperature =C $\underline{107.9}$ $\underline{107.2}$ $\underline{107.9}$ $\underline{107.2}$ $\underline{107.9}$ $\underline{107.2}$ $\underline{107.9}$		Odor: 	(ael Alkalinity
Sampling T Purging Flo Did well de Time 	by Rate: volume (gal.) (.S) 4.S 4.S 4.S 4.S 4.S 10.S 12.0 13.S (C.0) cll Recare	405 pH 7.16 7.28 7.38 7.48 7.48 7.48 7.48 7.48 7.48 7.48 7.4	- Water Co 2007. Sediment If yes; T Conductivity µmhos/cm <u>/3? (</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/3.18</u> <u>/3.20</u> <u>/3.18</u> <u>/3.20</u>	plor: $\underline{Brow N}$ t Description: \leq Time: $\underline{1200}$ Ler 20000000 Temperature =C $\underline{107.9}$	C: L+ (F3.00 Volum For 10 m2 D.O. (mg/L)	Odor: 	(gel
Sampling T Purging Fid Did well de Time	by Rate: 2-water? Volume (gal.) (.5) 3.0 4.5 4.5 4.5 6.0 7.5 7.5 12.0 13.5 (5.0) 4.5 12.0 13.5 12.0	915 pH 7.16 7.28 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.41 7.16 7.16 7.16 7.16 7.16 7.16 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.1	Water Co app. Sediment If yes; T Conductivity µmhos/cm <u>/3? (</u> <u>/2.26</u> <u>/2.32</u> <u>12.30</u> <u>12.30</u> <u>12.40</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u>	plor: $\underline{Brow N}$ t Description: \leq Time: $\underline{1200}$ 2 of 2 observed Temperature =C $\underline{107.9}$		Odor:	(gel Alkalinity (ppm)
Sampling T Purging Fid Did well de Time CLANCE MCCANT MCCA	by Rate: 2-water? Volume (gal.) (.5) 3.0 4.5 4.5 4.5 6.0 7.5 12.0 13.5 12.0 13.5 15.0 12.0 13.5 15.0 11.0	915 pH 7.16 7.28 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.41 7.16 7.16 7.16 7.16 7.16 7.16 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.1	- Water Co <u>com</u> . Sediment If yes; T Conductivity μmhos/cm <u>/3</u> ? (<u>/2.2</u> (<u>/2.3</u> 2 <u>/2.3</u> 2 <u>/3.7</u> 8 <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u></u>	plor: $\underline{Brow N}$ t Description: $\underline{\leq}$ Time: $\underline{1200}$ $\underline{ler 20000000}$ Temperature $\underline{=C}$ $\underline{107.9}$	C. L. (F3 Volum For 10 mi) D.O. (mg/L)	Odor: ORP (mV) -	(gel Alkalinity (ppm)
Sampling T Purging Fid Did well de Time CLANCE MCCANT MCCA	by Rate: 2-water? Volume (gal.) (.5) 3.0 4.5 4.5 4.5 6.0 7.5 7.5 12.0 13.5 (5.0) 4.5 12.0 13.5 12.0	915 pH 7.16 7.28 7.38 7.41 7.38 7.41 7.38 7.41 7.38 7.41 7.16 7.16 7.16 7.16 7.16 7.16 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.10 1.18 1.1	Water Co app. Sediment If yes; T Conductivity µmhos/cm <u>/3? (</u> <u>/2.26</u> <u>/2.32</u> <u>12.30</u> <u>12.30</u> <u>12.40</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/2.36</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u> <u>/3.76</u>	plor: $\underline{Brow N}$ t Description: \leq Time: $\underline{1200}$ 2 of 2 observed Temperature =C $\underline{107.9}$	C. L. (F3 Volum For 10 mi) D.O. (mg/L)	Odor:	(gel, Alkalinity (ppm)
Sampling T Purging Fid Did well de Time CLINE INSE INSE INSE INSE INSE INSE INSE I	bw Rate: e-water? Volume (gal.) (.5) 3.0 4.5 4.5 4.5 6.0 7.5 12.0 13.5 15.0 12.0 12.0 13.5 12.0 13.5 15.0 12.0 12.0 13.5 12.0 12.0 12.0 13.5 12.0 12.0 13.5 12.0	4 С5 рН <u>7.16</u> <u>7.28</u> <u>7.28</u> <u>7.38</u> <u>7.48</u> <u>7.48</u> <u>7.48</u> <u>7.48</u> <u>7.48</u> <u>7.48</u> <u>7.26</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.26</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u> <u>7.16</u>	- Water Co 2007. Sediment If yes; T Conductivity µmhos/cm <u>/3? (</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/2.32</u> <u>/3.8</u> <u>RIG. PRESERV.</u>	plor: $\underline{Bacu A}$ t Description: \leq Time: $\underline{1200}$ $\underline{107}$ $\underline{200}$ $\underline{107}$ $\underline{200}$ $\underline{107}$ $\underline{7}$ $\underline{107}$ $\underline{100}$ $\underline{100}$ $\underline{100}$ $\underline{1000}$ 1	ATORY	Odor: 	(as) Alkalinity (ppm)
Sampling T Purging Fid Did well de Time CLINE INSE INSE INSE INSE INSE INSE INSE I	bw Rate: e-water? Volume (gal.) 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Apr-09-02 06:20)am From-	Gettler-Ryan inc				925 551 ' ⊢⊤	7899	T-089	P.005/009	F-108
Client/ ^{Che} Facility		8600					38689	15		
	2200 7	Telegraph Av			Job	•				· · · · · · · · · · · · · · · · · · ·
_				··	Date					
City:	Oaklar	id, <u>CA</u>		<u> </u>	Sam	pler: _		72	· •	
Well (D		MW.3	We	ell Conditi	ion: _			0.k		
Well Diamete XE - DEVE(opmEnt	ar <u>∖</u> Г	<u>2" in</u> .	-	drocarbor ckness: _		Fr. Fr.	Amount		Ø	
Total Depth		<u>20.00 ft</u>		oiume).17	3" = 0	.38	4 " = 0.	<u>(qal.)</u> .66
Depth to Wat	ter 1	1.29 tt.	F	ictor (VF)		6" =	1.50	12" =	5.80	
_	•	<u>8-71</u> x v	F <u>.17</u>	<u> </u>		voluma)	Estimated	Purga Volu	ime: <u>]</u> .	0 (gal.
Purge Equipment:	Disp B ai le	iosable Bailer Br			ampling quipment	ч Г	isposable	Pailos		
	Stac	:k			derbu jett	B	ailer			
		tion) ndfas					ressure Ba irab Sampl			
		D2" stel	Ballen	-						
Starting Time	:	1000		Weather	Conditio		c			
Sampling Tim									eri)	·
Purging Flow		2.0					Siltu			
Did well de-w		סק_					Vo	•		laat.
Time	Volume (gal.)	рH		uctivity os/cm	Tempe •C	ratu re	D.O. (mg/L)	OR (m)		alinity ppm)
n _1006 _	1.5	8.19	98	6	67	<u>2. ?</u>			•	
1011 _	3.0	8.00		26	67					
1016 _	6.0	7.91				<u>.0</u>				
	7.5	<u>7,62</u> 7.5(<u></u>		66					
	9.0	7.74	<u></u> 1214		60					
· · · · ·	10.5	7.64	124		<u>- 67</u>		<u> </u>			
	2.0	7.51	125		66					
	3.5	7.32	128		<u>90</u> 49		·			
	5.0	7.48	127		<u> </u>					
1101 3	7.5	7.12	122		67.					
SAMPLE ID	(#) - CD		ABORA RIG,	TORY INF			ATORY		NALYSES	
MW-3	6xip	AUZAC	1	He	1	ANCA				
							-1167-	(5) AL	BICE (MIT	
								(3/ UXY	\$260	
37/2 6	l was	WAS VERY			In an		RA 22 Zeplace			
well Der	TH APPC	n Druela	Ima	TE	20.0	3	\rightarrow	<u> </u>	LIN2-10	

APPENDIX D

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UNDERGROUND STORAGE TANKS

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PLANTER

MW-1

FENCE

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DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV
MW-1	2122776.7	6050793.6	37.8115054	-122.2685703	1
MW-2	2122827.1	6050757.7	37.8116417	-122.2686978	1
MW-3	2122705.4	6050725.3	37.8113059	-122.2688019	1

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATION CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

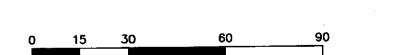
COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS96.

CORS STATIONS USED WERE DIAB AND POTB.

ELEVATIONS ARE BASED ON CITY OF OAKLAND BENCHMARK NO. 37JC. ELEVATION = 17.68



DRIVEWAY

PLANTER

PLANTER

22ND STREET

CANOPY

PUMP

ISLANDS

MW-3

DRIVEWAY

KIOSK

TELEGRAPH AVENUE

DRIVEWAY

SCALE: 1"= 30

Chevron Station No. 9-3600 2200 Telegraph Avenue Oakland



1450 Harbor Blvd. Ste. West Sacramento Galifornia 95691

APPENDIX E

Analysis Report



ANALYTICAL RESULTS

Prepared for:

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904 925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 800445. Samples arrived at the laboratory on Friday, March 15, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description		
MW-1-S-6.5-020312	Grab	Soil
MW-1-S-11.5-020312	Grab	Soil
MW-1-S-16.5-020312	Grab	Soil
MW-1-S-20-020312	Grab	Soil
MW-2-S-6.5-020312	Grab	Soil
MW-2-S-11.5-020312	Grab	Soil
MW-2-S-16.5-020312	Grab	Soil
MW-2-S-20-020312	Grab	Soil
MW-3-S-6.5-020312	Grab	Soil
MW-3-S-11.5-020312	Grab	Soil
MW-3-S-16.5-020312	Grab	Soil
MW-3-S-20-020312	Grab	Soil

Lancaster Labs Number 3788880 3788881 3788882 3788883 3788884 3788885 3788886 3788886 3788887 3788888 3788888 3788889 3788890 3788891

METHODOLOGY

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

1 COPY TO

Gettler-Ryan, Inc

Attn: Tony Mikacich



Questions? Contact your Client Services Representative

Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Steven AShila Steven A. Skiles Sr.Chemist





Lancast	ter Laboratories Sample No.	SW 3788	880					
Collected:03/12/2002 10:21 by TM Account Number: 10992								
Submitted: 03/15/2002 09:40 Chevron Products Company Reported: 03/22/2002 at 00:15 6001 Bollinger Canyon Road Discard: 03/30/2002 Building L PO Box 6004 MW-1-S-6.5-020312 Grab Soil								
Facility# 93600 GRRC 2200 Telegraph Av-Oakland NA MW-1								
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor		
01726	TPH-GRO - Soils							
01727	01727 TPH-GRO - Soils n.a. N.D. 1.0 mg/kg 25 The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.							
02160	BTEX/MTBE							
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was p in methanol. The reporting limi				mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25		

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/18/2002 22:54	Stephanie A Selis	25
02160	BTEX/MTBE	SW-846 B021B	1	03/18/2002 22:54	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1 .	03/18/2002 06:00	Stephanie A Selis	n.a.





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Collected:03/12/2002 10:27 by TM

Submitted: 03/15/2002 09:40 Reported: 03/22/2002 at 00:15 Discard: 03/30/2002 MW-1-S-11.5-020312 Grab Soil

Building L PO Box 6004 San Ramon CA 94583-0904

Account Number: 10992

Chevron Products Company

6001 Bollinger Canyon Road

Facility# 93600 2200 Telegraph Av-Oakland NA MW-1

GRRC

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of T gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lim	rior to the C6 performed on a	(n-hexane) TPH-(GRO range s preserved	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was in methanol. The reporting lim				mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25 25

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT			Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/18/2002 23:31	Stephanie A Selis	25
02160	BTEX/MTBE	SW-846 8021B	1	03/18/2002 23:31	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:01	Stephanie A Selis	n.a.





Lancaster Laboratories Sample No. SW 3788882							
Collec	ted:03/12/2002 10:31 b	у ТМ	Acco	ount Number: 10	992		
Report Discar	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:15 d: 03/30/2002 -16.5-020312 Grab	Soil	600 Bui	vron Products C 1 Bollinger Can lding L PO Box Ramon CA 94583	yon Road 6004		
Facility# 93600 GRRC 2200 Telegraph Av-Oakland NA MW-1							
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor	
01726	TPH-GRO - Soils						
01727	TPH-GRO - Soils The reported concentration of T gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lim	performed on a	(n-hexane) TP sample which	H-GRO range was preserved	mg/kg	25	
02160	BTEX/MTBE						
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was in methanol. The reporting lim				mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25	
				-			

State of California Lab Certification No. 2116

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 00:08	Stephanie A Selis	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 00:08	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:02	Stephanie A Selis	n.a.





Page 1 of 1

Lancaster Laboratories S	Sample No.	SW	3788883
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Collected:03/12/2002 10:35by TMAccount Number: 10992Submitted: 03/15/2002 09:40Chevron Products CompanyReported: 03/22/2002 at 00:166001 Bollinger Canyon RoadDiscard: 03/30/2002Building L PO Box 6004MW-1-S-20-020312GrabSoilSan Ramon CA 94583-0904

Facility# 93600 2200 Telegraph Av-Oakland NA MW-1

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of T	PH-GRO does not	t include MTBE or	other		
	gasoline constituents eluting p	rior to the C6	(n-hexane) TPH-G	RO range		÷.,
	start time.					
	The analysis for volatiles was	performed on a	sample which was	preserved		
	in methanol. The reporting lim	its were adjus	ted appropriately			
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg∕kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was	performed on a	sample which was	s preserved		
	in methanol. The reporting lim	its were adjus	ted appropriately			

GRRC

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 00:45	Stephanie A Selis	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 00:45	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:03	Stephanie A Selis	n.a.



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Lancas	ter Laboratories Sample No	. SW 3788	3884				
Collec	ted:03/12/2002 09:03 b	y TM	Acco	ount Number: 10	992		
Report Discar	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -6.5-020312 Grab	Soil	6001 Buịl	ron Products C Bollinger Can ding L PO Box Ramon CA 94583	yon Road 6004		
	ty# 93600 elegraph Av-Oakland NA	MW-2	GRRC				
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	- Dilution Factor	
01726	TPH-GRO - Soils						
01727	01727 TPH-GRO - Soils n.a. N.D. 1.0 mg/kg 25 The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.						
02160	BTEX/MTBE						
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. N.D. N.D. N.D.	0.0050 0.0050 0.0050 0.015 0.050	mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25 25	

02199 MTBE The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 01:22	Stephanie A Selis	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 01:22	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:04	Stephanie A Selis	n.a.





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Lancas	ter Laboratories Sample No	. SW 3788	3885		· .	
Collec	ted:03/12/2002 09:07 b	у ТМ	A	ccount Number: 109	92	
Report Discar	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -11.5-020312 Grab	Soil	6 B	hevron Products Co 001 Bollinger Cany uilding L PO Box 6 an Ramon CA 94583-	on Road 004	
Facili	ty# 93600		GRRC			
	elegraph Av-Oakland NA	MW-2				
			As Receive	As Received ed Method		Dilution
CAT No.	Analysis Name	CAS Number	As Receive Result	Detection Limit	Units	Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of T gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lim	prior to the C6	(n-hexane) sample whi	TPH-GRO range ch was preserved	mg/kg	25
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.Đ.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was	performed on a	sample whi	ch was preserved		
	in methanol. The reporting lim					
				т. Т	÷.,	

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 00:22	Martha L Seidel	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 00:22	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:05	Stephanie A Selis	n.a.





collec	ted:03/12/2002 09:14	by TM	Αςςοι	int Number: 10	992	
Report Discar	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -16.5-020312 Grab	Soil	6001 Build	con Products C Bollinger Can ding L PO Box Ramon CA 94583	yon Road 6004	
	ty# 93600 'elegraph Av-Oakland NA	MW-2	GRRC			
CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of gasoline constituents eluting start time. The analysis for volatiles was in methanol. The reporting li	prior to the C6 performed on a	(n-hexane) TPH- sample which wa	-GRO range as preserved	mg/kg	25
					•	
02160	BTEX/MTBE					
02174	BTEX/MTBE Benzene	71-43-2	N.D.	0.0050	mg/kg	25
	Benzene Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02174 02177 02178	Benzene Toluene Ethylbenzene	108-88-3 100-41-4	N.D. N.D.	0.0050 0.0050	mg/kg mg/kg	25 25
02174 02177	Benzene Toluene	108-88-3	N.D.	0.0050	mg/kg	25

State of California Lab Certification No. 2116

Laboratory	Chronicle
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CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 01:00	Martha L Seidel	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 01:00	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:06	Stephanie A Selis	n.a.





Lancasi	ter Laboratories Sample No.	SW 3788	887			
Collect	ted:03/12/2002 09:20 by	/ TM	Ad	count Number: 1099	92	
Report	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -20-020312 Grab	Soil	6(Ba	nevron Products Com 001 Bollinger Canyo 111ding L PO Box 60 an Ramon CA 94583-0	on Road 004	
	ty# 93600 elegraph Av-Oakland NA	Mw-2	GRRC			
CAT No.	Analysis Name	CAS Number	As Receive Result	As Received d Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of TP gasoline constituents eluting pr start time. The analysis for volatiles was p in methanol. The reporting limi	eior to the C6	(n-hexane) sample whice	TPH-GRO range th was preserved	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was p in methanol. The reporting limi	108-88-3 100-41-4 1330-20-7 1634-04-4 performed on a			mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 01:37	Martha L Seidel	25
02160	BTÉX/MTBE	SW-846 8021B	1	03/19/2002 01:37	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:07	Stephanie A Selis	n.a.





····						Page 1 of 1
Lancas	ter Laboratories Sample No	. SW 3786	3888			
Collec	ted:03/12/2002 11:45 b	у ТМ	Ac	count Number: 10	992	
Report Discar	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -6.5-020312 Grab	Soil	60 Bu	evron Products C 01 Bollinger Can ilding L PO Box n Ramon CA 94583	yon Road 6004	
	ty# 93600 'elegraph Av-Oakland NA	MW-3	GRRC			
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of T gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lim	rior to the C6 performed on a	(n-hexane) : sample which	TPH-GRO range n was preserved	mg∕kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was in methanol. The reporting lim	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 performed on a tits were adjus	N.D. N.D. N.D. N.D. N.D. sample whick	0.0050 0.0050 0.0050 0.015 0.050 h was preserved ately.	mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25 25

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 02:15	Martha L Seidel	25
02160	BTEX/MTBE	SW-846 8021B SW-846 5035	1	03/19/2002 02:15 03/18/2002 06:08	Martha L Seidel Stephanie A Selis	25 n.a.
01150	GC VOA Soil Prep	24-040 2022	1	03/10/2002 00.00	occphanic in belib	





						Page 1 of 1
Lancas	ter Laboratories Sample No	. SW 3788	9889			
Collec	ted:03/12/2002 11:49 b	у ТМ	Acco	ount Number: 109	992	
Report Discar	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -11.5-020312 Grab	Soil	600) Bui	vron Products Co 1 Bollinger Can lding L PO Box Ramon CA 94583	yon Road 6004	
Facili	ty# 93600		GRRC			
	elegraph Av-Oakland NA	MW-3				
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of T gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lin	performed on a	(n-hexane) TF sample which	PH-GRO range was preserved	mg/kg	25
02160	BTEX/MTBE					
02174 02177 02178 02182 02199	Benzene Toluene Ethylbenzene Total Xylenes MTBE The analysis for volatiles was	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 performed on a	N.D. N.D. N.D. N.D. N.D. sample which	0.0050 0.0050 0.0050 0.015 0.050 was preserved	mg/kg mg/kg mg/kg mg/kg mg/kg	25 25 25 25 25 25
	in methanol. The reporting lin	mits were adjus	ted appropriat	tely.		

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 02:52	Martha L Seidel	25
02160 01150	BTEX/MTBE GC VOA Soil Prep	SW-846 8021B SW-846 5035	1 1	03/19/2002 02:52 03/18/2002 06:09	Martha L Seidel Stephanie A Selis	25 n.a.



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

2216 Rev. 9/11/00



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Lancas	ter Laboratories Sample No	. SW 3788	3890			
Collec	ted:03/12/2002 11:54 b	у ТМ		Account Number: 10	992	
Report	ted: 03/15/2002 09:40 ed: 03/22/2002 at 00:16 d: 03/30/2002 -16.5-020312 Grab	Soil		Chevron Products C 6001 Bollinger Can Building L PO Box San Ramon CA 94583	yon Road 6004	
Facili	ty# 93600		GRRC			
2200 T	elegraph Av-Oakland NA	MW-3				
CAT			As Recei	As Received ived Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of T gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lim	rior to the C6 performed on a	(n-hexan) sample w	e) TPH-GRO range hich was preserved	mg/kg	25
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was					
	in methanol. The reporting lim					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 03:30	Martha L Seidel	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 03:30	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:10	Stephanie A Selis	n.a.





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Lancaster	Laboratories	Sample	No.	SW	3788891

Collected:03/12/2002	11:58 by	ТМ	Account Number: 10992
Submitted: 03/15/2002 Reported: 03/22/2002 Discard: 03/30/2002 MW-3-S-20-020312		Soil	Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904
Facility# 93600			GRRC

Facility# 93600 M₩-3 2200 Telegraph Av-Oakland NA

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of 2 gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lin	prior to the C6 performed on a	(n-hexane) TPH- sample which wa	GRO range as preserved	mg/kg	25
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE	1634-04-4	N.D.	0.050	mg/kg	25
	The analysis for volatiles was in methanol. The reporting lin					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01726	TPH-GRO - Soils	N. CA LUFT Gasoline Method	1	03/19/2002 04:07	Martha L Seidel	25
02160	BTEX/MTBE	SW-846 8021B	1	03/19/2002 04:07	Martha L Seidel	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 06:11	Stephanie A Selis	n.a.





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Client Name: Chevron Products Company Reported: 03/22/02 at 12:16 AM

Group Number: 800445

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
MIALYSIS NAME	<u>Resul c</u>	<u>FADIA</u>	0112 68	51000	01050			
Batch number: 02077A31A	Sample nu	mber(s):	3788885-37	88891				
TPH-GRO - Soils	N.D.	1.	mg/kg	78		75-117		
Benzene	N.D.	.005	mg/kg	104		84-132		
Toluene	N.D.	.005	mg/kg	104		88-116		
Ethylbenzene	N.D.	.005	mg/kg	103		87-127		
Total Xylenes	N.D.	.015	mg/kg	104		88-120		
MTBE	N.D.	.05	mg/kg	100		64-158		
Batch number: 02077A33C	Sample nu	mber(s):	3788880-37	88884				
TPH-GRO - Soils	N.D.	1.	mg/kg	80		75-117		
Benzene	N.D.	.005	mg/kg	101		84-132		
Toluene	N.D.	.005	mg/kg	100		88-116		
Ethylbenzene	N.D.	.005	mg/kg	102		87-127		
Total Xylenes	N.D.	.015	mg/kg	102		88-120		
MTBE	N.D.	.05	mg/kg	95		64-158		

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup
Analysis Name	*REC	*REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	RPD <u>Max</u>
Batch number: 02077A31A	Sample	number	(s): 378888	5-37888	191				
TPH-GRO - Soils	60	63	44-116	6	30				
Benzene	107	113	56-142	5	30				
Toluene	83	87	66-120	4	30				
Ethylbenzene	89	93	66-131	4	30				
Total Xylenes	83	87	67-122	4	30				
MTBE	90	91	42-163	2	30				
Batch number: 02077A33C	Sample	number	(s): 378888	0-37888	384				
TPH-GRO - Soils	72	79	44-116	9	30				
Benzene	111	119	56-142	7	30				
Toluene	86	91	66-120	6	30				
Ethylbenzene	97	102	66-131	6	30				
Total Xylenes	89	94	67-122	5	30				
MTBE	132	144	42-163	8	30				

Surrogate Quality Control

-	Jame: TPH-GRO - Soils Der: 02077A31A		
	Trifluorotoluene-F	Trifluorotoluene-P	
3788885	78	99	
3788886	74	93	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.





Page 2 of 2

Client Name: Chevron Products Company Reported: 03/22/02 at 12:16 AM

Group Number: 800445

3788880	97	100
-	Jame: TPH-GRO - Soils per: 02077A33C Trifluorotoluene-F	Trifluorotoluene-P
Limits:	61-127	68-122
MSD	79	93
MS	7 7	90
LCS	88	104
Blank	81	104
3788891	76	96
3788890	80	97
3788889	77	92
3788888	81	97
3788887	80	99
		Surrogate Quality Control
кероттец	1: 03/22/02 at $12:10$	

Limits:	61-127	68-122	
MSD	100	103	
MS	95	96	
LCS	97	105	
Blank	108	105	
3788884	97	98	
3788883	93	96	
3788882	92	96	
3788881	96	98	
3788880	97	100	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Ch	evron C	Califo	rnia	a F	Reg	jio	n	A	na	aly	S	is	Re	qu	ues	st/C	Ch	air	n of	Cu	stod	У
Lancaster Laboratories Where quality is a science.	.e.										F	or L: ; #; _	ancas 3	ter La フタ	aborati SO E 6 2 lested	ories 36- 37]			SCR#	#:	10-	.2
Date Time					NPOES	_	ſ	- 14	1	TPH 8015 MOD DRO	7	TotAL Lead	1421 D (20/0B)		odes				H = HCI N = HN(S = H ₂ S J value Must n possib 3021 MT Confin	D ₃ I O ₄ O e reportir neet low- le for 82 BE Cont m highes m all hits	st hit by 826 by 8260	Ifate on limits nds
Service Order #: <u>DG936006.4CT/</u> No	Date Collected C	Time Collected	Compos	X Soil	Water		lotal N	BTEX + MTBE	TPH 8015 MOD	TPH 8015	8260 full scan	Å	Lead 7420		_				_] Run _	oxy'	s on highes s on all hits cemarks	
$\frac{MW-1-6.5}{MW-1-11.5}$ $\frac{MW-1-76.5}{MW-1-20}$		0:27 0:31 0:35 7:03					1 1 1 1														·	
MW-2-6.5 MW-2-11.5 MW-2-16.5 MW-2-20	9	1:07 1:/4 1:20					<u> </u> 															
MW-3-6.5 MW-3-11.5 MW-3-16.5 MW-3-20		/:45 /:49 /:54 /:58 2:08	#								·							4	Z(4)	(4:10 8he.	omposit TAT)	é)
SP-1-4 Turnaround Time Requested (TAT) (please cir STD. TAT 24 hour 72 hour 48 hour 5 day	cle)	Relingui	sí	mi	<u> </u>	<u>m</u>	- 			0	Date	1/04	Time	0	Receive						Date	Tim e Time
Data Package Options (please circle if required) Relinquished QC Summary Type I – Full Relinquished Type VI (Raw Data) Coelt Deliverable not needed UPS Disk Temperature			ished by	Con edEx	\sum	Ot	rier:	<u> </u>			Date	e	Time	F	Receive Receive Custod	ed by:	10))E 1d?	Ves) No	Date Date 3/15/01	Time Time ୦୨୪୦

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 3460 Rev. 7/30/01

Cł	evron	Califo	rni	a I	Reg	jio	n.	An	al	/S	s	Re	qu	es	t/C	ha	in	of	Cu	istoc	y .
Where quality is a science.					Acc	 :t. #: _	105 -106 -	92 105	s	ample	#:	incast '3- ses F	78	<u>385</u>	ries u: 36- 7	se onl ?(іу 	SCR#:		اە2	
MW-1-6.5 03/12/02 10:21					Water C Potable Vater Vater Vater			TPH B015 MOD GRO	DRO DSIlica Gel Cleanup	8260 full scan	meter (TotAL Lead)			·				= HCI = HNO3 = H2SO I value r Must me possible 21 MTBR Confirm Confirm Run	eporti et low for 82 E Con highe all hit	tive Code T = Thios B = NaOH O = Other ing needed vest detection 260 compoor firmation est hit by 82 ts by 8260 r's on higher y's on all hit	ulfate f on limits inds 60 st hit
Sample Identification MW-1-6.5 MW-1-11.5 MW-1-20 MW-2-6.5 MW-2-1.5 MW-2-1.5 MW-2-1.6.5 MW-2-2.5 MW-2-2.5 MW-3-6.5	Collected	Collected		N Sol			1 1 1 1 1 1 1 1			828										Remarks	
$\frac{MW-3-1.5}{MW-3-2.6.5}$ $\frac{MW-3-2.0}{5P-1-4}$ Turnaround Time Requested (TAT) (please clip std. TAT) 24 hour 48 hour 48 hour	cle) Composition		sí	M	ha	m				Date 93//-	f/or	Time 4:30 Time		ceived	-			(4 -(48)	he.	Composil TAT) Date Date	Time
72 hour 4 day 5 day Data Package Options (please circle if required) QC Summary Type 1 – Full Type VI (Raw Data) Coelt Deliverable not nee WIP (RWQCB) Disk		Relinqui Relinqui UPS Temper	ished by	(Con edEx	\sum	Ot	nier: her_	C.		Date	•	Time	Re	ceived ceived U istody	i by: / $\mathcal N$			Yes) No		Time

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Coples: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 3460 Rev. 7/30/01



ANALYTICAL RESULTS

Prepared for:

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904 925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 800440. Samples arrived at the laboratory on Friday, March 15, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description SP-1-4-S-020312 Lancaster Labs Number 3788871

METHODOLOGY

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

1 COPY TO

Gettler-Ryan, Inc

Composite Soil

Attn: Tony Mikacich

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

Respectfully Submitted,

YUM. Steven A. Skiles Sr. Chemist





Page 1 of 2

Lancaster Laboratories Sample No. SW 3788871

Collected:03/12/2002 12:08 by TM

Submitted: 03/15/2002 09:40 Reported: 03/20/2002 at 13:13 Discard: 03/28/2002 SP-1-4-S-020312 Composite Soil Account Number: 10992

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904

Facility# 93600 2200 Telegraph Av-Oakland NA

SP1-4

GRRC

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01655	Lead	7439-92-1	110.	0.80	mg/kg	1
01726	TPH-GRO - Soils					
01727	TPH-GRO - Soils The reported concentration of M gasoline constituents eluting p start time. The analysis for volatiles was in methanol. The reporting lim	performed on a	; (n-hexane) TPH- sample which wa	GRO range is preserved	mg/kg	25
02160	BTEX/MTBE					
02174	Benzene	71-43-2	N.D.	0.0050	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.0050	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.0050	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.015	mg/kg	25
02199	MTBE The analysis for volatiles was	1634-04-4 performed on a	N.D. A sample which wa	0.050 as preserved	mg/kg	25

in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01655	Lead	SW-846 6010B	1	03/19/2002 15:53	David K Beck	1
01726	TPH-GRO - Soils	N. CA LUFT Gasoline	1	03/18/2002 07:27	Stephanie A Selis	25
		Method				25
02160	BTEX/MTBE	SW-846 8021B	1	03/18/2002 07:27	Stephanie A Selis	25
01150	GC VOA Soil Prep	SW-846 5035	1	03/18/2002 01:15	Stephanie A Selis	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	03/18/2002 06:40	Liana C Jones	1





Page 2 of 2

Lancaster Laboratories Sample No. SW 3788871

Collected:03/12/2002 12:08 by TM

Submitted: 03/15/2002 09:40 Reported: 03/20/2002 at 13:13 Discard: 03/28/2002 SP-1-4-S-020312 Composite Soil Account Number: 10992

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904

Facility# 93600 2200 Telegraph Av-Oakland NA GRRC SP1-4





Page 1 of 1

Client Name: Chevron Products Company Reported: 03/20/02 at 01:13 PM

Group Number: 800440

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS ¥REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 020775708001 Lead	Sample nu N.D.	mber(s): .82	3788871 mg/kg	100		86-109		
Batch number: 02077A33A	Sample nu	mber(s):	3788871					
TPH-GRO - Soils	N.D.	1.	mg/kg	80		75-117		
Benzene	N.D.	.005	mg/kg	101		84-132		
Toluene	N.D.	.005	mg/kg	100		88-116		
Ethylbenzene	N.D.	.005	mg/kg	102		87-127		
Total Xylenes	N.D.	.015	mg/kg	102		88-120		
MTBE	N.D.	.05	mg/kg	95		64-158		

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 020775708001	Sample	number	(s): 378887	71					
Lead	139*	80	75-125	18	20	110.	175.	46*	20
Batch number: 02077A33A	Sample	number	(s): 378887	71					
TPH-GRO - Soils	72	79	44-116	9	30				
Benzene	111	119	56-142	7	30				
Toluene	86	91	66-120	6	30				
Ethylbenzene	97	102	66-131	6	30				
Total Xylenes	89	94	67-122	5	30				
MTBE	132	144	42-163	8	30				

Surrogate Quality Control

	Name: TPH-GRO - Soils Der: 02077A33A		
	Trifluorotoluene-F	Trifluorotoluene-P	
3788871	96	96	
Blank	101	108	
LCS	97	105	
MS	95	96	
MSD	100	103	
Limits:	61-127	68-122	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Cl	hevron	Califor	nia	a F	Reg	jioi	n.	An	al	/S	is	Re	qu	es	t/C	ha	in of C	ustoc	ly .
Where quality is a science.		54 2 4			Acc	j .t. #: <u></u>		192 105	_ s	F ample	or L e #: _	ancaste 37 37 (ses R	r Labe クロ フ を	orator	ies us	e only 7 (/SCR#:	10	£2
Facility #: <u>9-3600</u> Site Address: <u>2200 Te/egraph A</u> Chevron PM: <u>Tom Banhs</u> Lead Consultant/Office: <u>Gett/er-RyanInc./</u> Consultant Prj. Mgr.: <u>Tony Mikacich</u> Consultant Phone #: <u>(9/6) 631-1300</u> Sampler: <u>Tony Mikacich</u>		-doVA	 		Potable NPOES	er of Containers			TPH 8015 MOD DRO Silica Gel Cleanup			ervatio (80/09) [1212] 0 0					H = HCI N = HNO ₃ S = H ₂ SO ₄ J value rep Must meet possible fo 8021 MTBE Confirm hi Confirm a	lowest detect or 8260 compo Confirmation ghest hit by 8 I hits by 8260	ulfate H r ion limits unds 260
Service Order #: <u>DG936006.4CT/</u> DN Sample Identification	on SAR: Date Collected		Composite	Soil	Water	Oil C Air C		TPH 8015 MOD	108 Hd1	8260 full scan	ð 	Lead 7420 [🗌 Run	oxy's on high oxy's on all h ; / Remarks	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c c} 0:2 \\ \hline 0:27 \\ \hline 0:31 \\ \hline 0:35 \hline$	hed by	Million Million			$ \frac{1}{1} $ $ 1$			Date Date	_	Time 4:30	Red	zeived	Hex:		(4: (48h)	2 Composi e. TAT Date Date	Time
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QC Summary Type I – Full Type VI (Raw Data) Coett Deliverable not net WIP (RWQCB) Disk	eded	Relinguis UPS Tempera	Æ	edEx	\sum	Oth		C°						ceived <u> </u> stody	i by: /// Seals	10- Intacti	Yes	No	7.0740

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Conies: White and vellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. //30/01

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Where quality is a science.	.,	· ' ħ			Ad	oct. #:	10 -10	99 90	2		Anal	yses	Requ	ested	l	ise or <u>91</u>	nly	sc				
Facility #: <u>9-3600</u> Site Address: <u>2200 Telegraph A</u> Chevron PM: <u>Tom Banhs</u> Lead	VE, DAK	/AND Detta/G	 R		Matri			¥						Codes			1	H = H N = H S = H;	CI NO₃ ₂SO₄		iosul aOH ther	
Consultant/Office: <u>Gettler-RyANINC./</u> Consultant Prj. Mgr.: <u>Tony MikAcich</u> Consultant Phone #: (916) 631-1300 Sampler: <u>Tony MikAcich</u>	Rancho Co.	rdaVA 631-131 Time	7	Composite Soil	Water D Potable	-	ā l	BTEX + MTBE 8260 1 8021 X			Cappendice (7,242)] Musi poss 3021 N] Con] Con] Run	t meet l sible for 1TBE C firm hig firm all	orting nee lowest del 8260 con Confirmatik ghest hit b hits by 82 oxy's on h oxy's on a	ection npoun on y 8260 260 ighesi	nds O
Sample Identification MW-1- 6. 5 MW-1- //.5	<u>Collected</u>	Collected /0:21 /0:27	° X				1											Com	nents	/ Remar	ks	
MW-1-16.5 MW-1-20		10:31 10:35 9:03	╋┼┼ ┼┼┼		₩— —		/ / /					_										
<u>MW-Z-6.5</u> <u>MW-Z-11.5</u> <u>MW-Z-16.5</u>		9:07 9:14	┨╺╉╺╉ ┨╺╂┥ ┨╺╂┥┦				1														·	
MW-2-20 MW-3-6.5 MW-3-11.5		9:20 11:45 11:49					1												1		-' <i>†</i> -	\sim
MW-3-16,5 MW-3-20 SP-1-4	V	11:54 11:58 12:08	4	\times			$\frac{1}{4}$										4	4	.(4 : , <u>48h</u> e	/ Compo		
Turnaround Time Requested (TAT) (please circles and the second	cle) Composit	1 20	uished uished	<u>M</u>	ho	<u>u</u>	1			03	ate ////o ate	Time <u>2.4:3</u> Time	0	Receive		<u> </u>				Dat	ie	Tim
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ANALYTICAL RESULTS

Prepared for:

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904 925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 800970. Samples arrived at the laboratory on Wednesday, March 20, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

SP-1-4-S-020312Composite SoilSP-1-4-S-020312Composite Soil

Lancaster Labs Number 3791586 3791587

METHODOLOGY

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

1 COPY TO

Gettler Ryan

Attn: Tony Mikacich

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

Respectfully Submitted,

000

Erik J. Frederiksen Group Leader





Page 1 of 1

Lancaster Laboratories Sample No. SW 3791586

Collected:03/12/2002 12:08	by TM	Account Number: 10992
Submitted: 03/20/2002 15:43 Reported: 04/01/2002 at 21:05 Discard: 04/16/2002 SP-1-4-S-020312 Comp	osite Soil	Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904

Facility# 93600	GRRC
2200 Telegraph Av Oakland NA SP1-4	

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01655	Lead	7439-92-1	74.5	0.80	mg/kg	l

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01655	Lead	SW-846 6010B	1	03/22/2002 10:55	Joanne M Gates	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	03/21/2002 21:15	Annamaria Stipkovits	1





Page 1 of 1

Lancaster Laboratories Sample No. TL 3791587

Collected:03/12/2002 12:08by TMAccount Number: 10992Submitted: 03/20/2002 15:43Chevron Products CompanyReported: 04/01/2002 at 21:056001 Bollinger Canyon RoadDiscard: 04/16/2002Building L PO Box 6004SP-1-4-S-020312Composite SoilSan Ramon CA 94583-0904

Facility# 93600 STLC NON-VOA LEACH EXTGRRC2200 Telegraph Av Oakland NASP1-4

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01755	Lead	7439-92-1	3,340.	8.8	ug/l	1

state of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01755	Lead	SW-846 6010B	1	04/01/2002 03:22	Donna R Sackett	1
01435	Non-volatile WET	CCR Sec. 66700 WET, Title 22	1	03/23/2002 11:30	Kenneth A Yingst	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	03/28/2002 16:30	Irimar Leon	1







Client Name: Chevron Products Company Reported: 04/01/02 at 09:05 PM Group Number: 800970

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report Units	LCS SRBC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 020805708003 Lead	Sample nu N.D.	mber(s): .82	3791586 mg/kg	97		86-109		
Batch number: 020875705005 Lead	Sample nu N.D.	mber(s): .0088	3791587 mg/l	98		94-110		

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	LREC	%RSC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 020805708003 Lead	Sample 99	number 141*	(8): 3791586 75-125	19	20	48.6	36.2	29* (1)	20
Batch number: 020875705005 Lead	Sample 84	number 88	(s): 3791587 75-125	4	20	0.0761	0.0766	1 (1)	20

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Chevron California Region Analysis Request/Chain or

Where quality is a science.					Acct	iç #: <u>-k</u>	>>9 <u>996</u>	2	Sam		Lancasti 7 7 lyses R	78	- 68		15e 0 91			
Facility #: 9-3600					Matrix					Pres	servatio	on Co	odes				tive Code	
Site Address: <u>2200 Telegraph A</u> Chevron PM: <u>Tom BANhs</u> Lead C Consultant/Office: <u>Gettler-Ryan Inc. /A</u>	VE., DAKI	twd			rr		¥	*	Cilica Gel Cleanup		(0108)				-+-	$ H = HCI N = HNO_3 S = H_2SO_4 $	T = Thios B = NaOl O = Othe	H
Chevron PM: Tom BANKS Lead C	Consultant: <u>6</u>	etta/G	<u>K</u>		e v.	S			e e		ŝ					J value report	ing needed	
Consultant/Office: Gettler-RYANINC.//	Bancho Cori	IoVA				tain	A	$\left \right\rangle$	5	194-1	8					Must meet lov	vest detecti	on limits
Consultant Prj. Mgr .: Tony MikAcich	<u>, </u>				Dotable	Containers	8260 🗆 8021 🕅	1	夢	P	+					possible for 8	-	unus
Consultant Prj. Mgr.: Toxy MikAcich Consultant Phone #: (9/6) 631-1300	Fax #: ^(9/6) 6	31-131	7			ð	8			1	7421					8021 MTBE Con		
Sampler: Tory MikAcich								8	<u>ا 8</u>	Drygenet cs						Confirm high		.00
Sampler: <u>70097 III-1010-</u>	n SAR:						M18	15 M(15 M									st hit
Service Order #: <u>DG936006.4CT/</u> No	Date	Time	Grab		Water	Total Number	BTEX + MTBE	TPH 8015 MOD	TPH 8015 MOD DRO 8260 full scan		Lead 7420							
Sample Identification		Time Collected	0	<u>i</u> ŭ	<u> ≥ </u>	<u>5 ĕ</u>	厚	l₽ T	<u>e 18</u>	<u> </u>	<u> </u> = -				+	Comments /		
MW-1-6,5		0:21	XI-	X	┥──┤	-+/;	++				╉╾┠╌		+		—ŀ		(entanto	
MW-1-11.5		0:27	┨┥┼╸	╌┨┤	┼──┤	$+\frac{1}{7}$	╂┠	┝╋┥			╉╼╋╸							
MW-1-16.5		0:31	╂╢╂╼	╢	┼─┤	-+-	┨╋	╎┦	<u> </u>		┼╌┼╴	-{						
MW-1-20		0:35	╂┼┼–	┦┤	┢──┟	+	╌╂╋╴	┝╁┥			╉╾╂╴		+		-			
MW-Z-6.5		<u>7:03 ·</u>	┨┽┟╴	-	┨──┤	-+	┨╊	┼╋╴			╌┼╌╌┼╴		+					
MW-2-11.5		<u>7:07.</u>	┨╾┤┤		╉───┨	-+	┨╫	┼╋╴			╈				-+			
MW-2-16.5		<u>7:/4</u>	╏╎┼╴	_	┟──┦	+	┨╢				┼┈┼╸			┠──┼	-			
MW-2-20		<u>7:20</u>	┨┽┼╼		┨──┫	-+-	╉╉	┼╋┤			╉┉╉╴	- -		┝──╁	+			
MW-3-6.5	<u> </u>	11:45	┨┼┼┠─			+	┨╉	╢			┼╌┾╸		+		-+			
MW-3-11.5	<u> </u>	1:49	╏╢┼			-++	╂╋	╁╢╌	<u> </u>		+++				\neg	- (~	4
MW-3-16.5		11:54	- ♥ -	_╂-┦	╉──┤	-+	╶╂╌╫	┼╢			┼╌┼╸		1		-		Composil	e)
<u>MW-3-20</u>		1:58 Z:08	+	┨⋬				┼╂╾				- -		┟┄━┨		(4:1 (48hre.	TAT)	
<u>5P-1-4</u>	L/		/_ jished by			-7	<u> </u>	11		ate	Time	Re	ceiveo	L	1		Date	Time
Turnaround Time Requested (TAT) (please circ	ie)	1 Tra	w	m	has	N	L				4:30							
STD. TAT 24 hour 48 hour 72 hour 4 day 5 day	/###1 • \		uispled by						Ď	até	Time	Re	ceived	Hex:			Date	Time
Data Package Options (please circle if required)		Relinqu	uished by	ſ:	3				D	ate	Time	Re	ceive	by:			Date	Time
QC Summary Type I – Full Relinquished by						Carda-				1		Received by:					Date	Time
The set of				edEx	•	Other									٨	Ine		
IP (RWQCB)									Custody Seals Intact? (Yes) No									

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client. 3460 Rev. 7/30/01



ANALYTICAL RESULTS

Prepared for:

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904 925-842-8582 REGENER

CILER-RYAN INC.

NEPAL CONTRACTOR

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 803200. Samples arrived at the laboratory on Tuesday, April 09, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description		Lancaster Labs Number
QA-T-020405	NA Water	3801807
MW-1-W-020405	Grab Water	3801808
MW-2-W-020405	Grab Water	3801809
MW-3-W-020405	Grab Water	3801810

METHODOLOGY

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

1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding





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

Respectfully Submitted,

Steven A. Skiles Sr.Chemist



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

2215 Rev. 9/11/00



						Page 1 of 1
Lancas	ter Laboratories Sample No.	. WW 3801	1807			
Collec	ted:04/05/2002 00:00		Ac	count Number: 109	05	
Report	ted: 04/09/2002 09:10 ed: 04/19/2002 at 21:02 d: 05/20/2002 20405 NA	Water	60 Bu	evron Products Co 01 Bollinger Cany ilding L PO Box 6 n Ramon CA 94583-	on Road	
	ty# 93600 Job# 386895 ELEGRAPH AV-OAKLAND NA	QA	GRD			
Q3600						
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of TF gasoline constituents eluting pr start time. A site-specific MSD sample was r was performed to demonstrate pre	cior to the C6 not submitted	(n-hexane) '	IPH-GRO range ect. A LCS/LCSD	ug/l	1
08214	BTEX, MTBE (8021)					
00776 00777 00778 00779 00780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether A site-specific MSD sample was a was performed to demonstrate pre				ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT			Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/11/2002 01:17	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/11/2002 01:17	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/11/2002 01:17	Melissa D Mann	n.a.

#=Laboratory MethodDetection isin ison conditioned in the first detection limit N.D.=Not detected and first and point the box of the first detection limit ACC III Lancaster, PA 17605-2425



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						Page 1 of 2
_		1911 200	1000			
Lancas	ter Laboratories Sample No	. WW 380	1808			
Collec	ted:04/05/2002 14:30 b	у ТС	Accou	unt Number: 10	905	
Report Discar	ted: 04/09/2002 09:10 ed: 04/19/2002 at 21:02 d: 05/20/2002 -020405 Grab	Water	6001 Build	ron Products C Bollinger Can ding L PO Box Ramon CA 94583	yon Road 6004	
	ty# 93600 Job# 386895 ELEGRAPH AV-OAKLAND NA	NA	GRD			
13600						
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time. A site-specific MSD sample was	not submitted	i (n-hexane) TPH for the project	-GRO range . A LCS/LCSD	ug/1 _`	1
	was performed to demonstrate pr	recision and ac	curacy at a bat	ch level.		
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	5.0	0.50	ug/l	1
00777	Toluene	108-88-3	N.D. #	1.0	ug/l	1
00778	Ethylbenzene	100-41-4	14.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	8.4	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	310.	2.5	ug/l	1
	A site-specific MSD sample was	not submitted	for the project	. A LCS/LCSD		
	was performed to demonstrate p	recision and ac	ccuracy at a bat	ch level.		
	Due to the presence of an inter reporting limit was not attain presence or concentration of th presence of this interferent.	ed for toluene.	. The			
01595	Oxygenates by 8260B					
02010	Methyl t-butyl ether	1634-04-4	370.	2.	ug/l	2
02010		108-20-3	N.D.	2.	ug/l	1
02011		637-92-3	N.D.	2.	ug/1	1
02013	t-Amyl methyl ether	994-05-8	10.	2.	ug/1	1
02014		75-65-0	200.	100.	ug/1	1

State of California Lab Certification No. 2116

#=Laboratory MethodDetection isimile exceeded target detection limit N.D.=Not detected at dr floo 242 inex Holiand Bit Cimit Lancaster, PA 17605-2425



Road 4



Lancaster Laboratori	es Sample 1	No. WW 38018	808
Collected:04/05/2002	14:30	by TC	Account Number: 10905
Submitted: 04/09/200 Reported: 04/19/2002 Discard: 05/20/2002 MW-1-W-020405		Water	Chevron Products Company 6001 Bollinger Canyon Roa Building L PO Box 6004 San Ramon CA 94583-0904
Facility# 93600 Jo	b# 386895		GRD

NA

3600 TELEGRAPH AV-OAKLAND NA

13600

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/11/2002 05:57	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/11/2002 05:57	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/10/2002 20:22	Patricia L Nolt	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/11/2002 01:01	Patricia L Nolt	2
01146	GC VOA Water Prep	SW-846 5030B	1	04/11/2002 05:57	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2002 20:22	Patricia L Nolt	n.a.

#=Laboratory MethodDetection Limit Providence detection limit N.D.=Not detected and the second pice and pice the second pice of Lancaster, PA 17605-2425

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						Page 1 of 2
Lancas	ter Laboratories Sample No	. WW 380	1809			
Collect	ted:04/05/2002 14:13 b	Y TC	Acco	ount Number: 10	905	
Report	ted: 04/09/2002 09:10 ed: 04/19/2002 at 21:02 d: 05/20/2002 -020405 Grab	Water	6001 Buil	ron Products (Bollinger Car ding L PO Box Ramon CA 94583	yon Road 6004	
	ty# 93600 Job# 386895 ELEGRAPH AV-OAKLAND NA	NA	GRD			
23600						
				As Received		
CAT No .	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of T gasoline constituents eluting p start time. A site-specific MSD sample was was performed to demonstrate pr	not submitted	5 (n-hexane) TP for the projec	H-GRO range t. A LCS/LCSD	ug/l	1
08214	BTEX, MTBE (8021)					
00776 00777 00778 00779 00780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether A site-specific MSD sample was was performed to demonstrate pr	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 not submitted recision and ad	N.D. N.D. N.D. N.D. N.D. for the project	0.50 0.50 0.50 1.5 2.5 t. A LCS/LCSD tch level.	ug/l ug/l ug/l ug/l	1 1 1 1
01595	Oxygenates by 8260B					
02010 02011 02013 02014 02015	Methyl t-butyl ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol	1634-04-4 108-20-3 637-92-3 994-05-8 75-65-0	N.D. N.D. N.D. N.D. N.D.	2. 2. 2. 2. 100.	ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory MethodDetection Isimiresceeded target detection limit N.D.=Not determine the Booke High Agenoriting Limit Lancaster, PA 17605-2425

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Page 2 of 2

Lancaster	Laboratories	Sample No.	WW	3801809

Collected:04/05/2002 14:13 by TC

Submitted: 04/09/2002 09:10 Reported: 04/19/2002 at 21:02 Discard: 05/20/2002 Water MW-2-W-020405 Grab

Account Number: 10905

Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904

Facility# 93600 Job# 386895 3600 TELEGRAPH AV-OAKLAND NA

GRD

NA

23600

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/11/2002 05:22	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/11/2002 05:22	Melissa D Mann	1
01595	Oxygenates by 8260B	SW-846 8260B	1	04/10/2002 20:47	Patricia L Nolt	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/11/2002 05:22	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2002 20:47	Patricia L Nolt	n.a.

#=Laboratory MethodDetection Limit Presetted target detection limit N.D.=Not det Gettar GF Booke His tapperting Limit Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



2216 Rev. 9/11/00



						Page 1 of 2
Lancast	cer Laboratories Sample No.	WW 3801	1810			
Collect	ced:04/05/2002 11:11 by	TC		Account Number: 10	905	
Reporte	ted: 04/09/2002 09:10 ed: 04/19/2002 at 21:02 d: 05/20/2002 -020405 Grab	Water		Chevron Products C 6001 Bollinger Car Building L PO Box San Ramon CA 94583	yon Road 6004	
	ty# 93600 Job# 386895 ELEGRAPH AV-OAKLAND NA	NA	GRD			
33600						
CAT No.	Analysis Name	CAS Number	As Recei Result	Detection	Units	Dilution Factor
				Limit		
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of TE gasoline constituents eluting pr start time. A site-specific MSD sample was r was performed to demonstrate pre	ior to the C6	(n-hexane for the pr) TPH-GRO range	ug/l	• 1
08214	BTEX, MTBE (8021)					
00776 00777 00778 00779 00780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether A site-specific MSD sample was a was performed to demonstrate pre	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4 not submitted ecision and ac	N.D. 0.59 N.D. N.D. N.D. for the procuracy at	0.50 0.50 0.50 1.5 2.5 roject. A LCS/LCSD a batch level.	ug/l ug/l ug/l ug/l	
01595	Oxygenates by 8260B					
02010 02011 02013 02014 02015	Methyl t-butyl ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol	1634-04-4 108-20-3 637-92-3 994-05-8 75-65-0	N.D. N.D. N.D. N.D. N.D.	2. 2. 2. 2. 100.	ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory MethodDetection is aboratories in a portatories in a portator



Page 2 of 2

Lancaster Laboratories	Sample No.	WW 3801	810	
Collected:04/05/2002 1	1:11 by	TC		Account Number: 10905
Submitted: 04/09/2002 Reported: 04/19/2002 a Discard: 05/20/2002 MW-3-W-020405		Water		Chevron Products Company 6001 Bollinger Canyon Road Building L PO Box 6004 San Ramon CA 94583-0904
Facility# 93600 Job# 3600 TELEGRAPH AV-OAKI		NA	GRD	

33600 CAT			m_:_1#	Analysis Date and Time	Analyst	Dilution Factor
No.	Analysis Name	Method	Trial#	Date and Time	MIGTARC	FACLUL
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	04/11/2002 10:02	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	04/11/2002 10:02	Melissa D Mann	1
	Oxygenates by 8260B	SW-846 8260B	1	04/10/2002 21:13	Patricia L Nolt	1
01595	Oxygenates by 62006					-
01146	GC VOA Water Prep	SW-846 5030B	1	04/11/2002 10:02	Melissa D Mann	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2002 21:13	Patricia L Nolt	n.a.

#=Laboratory MethodDetection Limit = Detection limit N.D.=Not detected appendix to the the second se

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Page 1 of 3

Client Name: Chevron Products Company Reported: 04/19/02 at 09:03 PM

Group Number: 803200

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	MDL	Units	\$REC	%REC	Limits	RPD	RPD Max
				01000				
Batch number: 02100A56A	-		3801807-38		101	00 110	-	30
Benzene	N.D.	0.5	ug/l	100	101	80-118	1	
Toluene	N.D.	0.5	ug/l	100	102	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	97	101	81-119	3	30
Total Xylenes	N.D.	1.5	ug/l	99	102	82-120	3	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	103	103	79-127	0	30
TPH-GRO - Waters	N.D.	50.	ug/l	93	95	76-126	2	30
Batch number: 02100A56B	Sample n	umber(s):						~~
Benzene	N.D.	0.5	ug/l	100	101	80-118	1	30
Toluene	N.D.	0.5	ug/l	100	102	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	97	101	81-119	3	30
Total Xylenes	N.D.	1.5	ug/l	99	102	82-120	Э	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	103	103	7 9 -127	0	30
TPH-GRO - Waters	N.D.	50.	ug/l	93	95	76-126	2	30
		1	2001000 20	001010				
Batch number: U021001AB		umber(s):		01010		77-127	•.	
Methyl t-butyl ether	N.D.	2.	ug/l	97				
di-Isopropyl ether	N.D.	2.	ug/l	98		74-125		
Ethyl t-butyl ether	N.D.	2.	ug/l	100		74-120		
t-Amyl methyl ether	N.D.	2.	ug/l	97		71-114		
t-Butyl alcohol	N.D.	100.	ug/l	86		59-139		

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	4REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	<u>Max</u>
Batch number: 02100A56A	Sample	number	(s): 380180	7-38018	09				
Benzene	111		77-131						
Toluene	112		80-128						
Ethylbenzene	112		76-132						
Total Xylenes	112		76-132						
Methyl tert-Butyl Ether	103		61-144						
TPH-GRO - Waters	92		74-132						
Batch number: 02100A56B	Sample	number	(s): 380181	10					
Benzene	111		77-131						
Toluene	112		80-128						
Ethylbenzene	112		76-132						
Total Xylenes	112		76-132					•	
Methyl tert-Butyl Ether	103		61-144						
TPH-GRO - Waters	92		74-132						
Batch number: U021001AB	Sample	number	(s): 380180	08-38018					
Methyl t-butyl ether	101	94	69-134	7	30				
di-Isopropyl ether	104	102	68-133	2	30				
Ethyl t-butyl ether	103	100	73-123	3	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



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Page 2 of 3

Client Name: Chevron Products Company Reported: 04/19/02 at 09:03 PM

Group Number: 803200

Sample Matrix (Quality C	ontrol
-----------------	-----------	--------

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name t-Amyl methyl ether t-Butyl alcohol	%REC 102 84	<u>%REC</u> 99 81	<u>Limits</u> 69-118 51-148	RPD 3 3	<u>MAX</u> 30 30	Conc	Conc	RPD	Max

Surrogate Quality Control

	ame: TPH-GRO - Waters er: 02100A56A			
	Trifluorotoluene-F	Trifluorotoluene-P	·	
3801807	92	99		· · · · · · · · · · · · · · · · · · ·
3801808	113	96		
3801809	86	99		
Blank	89	99		
LCS	101	99		
LCSD	100	99		
MS	103	99		
Limits:	67-135	71-130	· ·	······································
Analysis N	Name: TPH-GRO - Waters			
Batch numb	per: 02100A56B			·
	Trifluorotoluene-F	Trifluorotoluene-P		
3801810	90	99		· · · · · · · · · · · · · · · · · · ·
Blank	90	99		
LCS	101	99		
LCSD	100	99		
MS	103	99		
Limits:	67-135	71-130		
Analysis 1	Name: Oxygenates by 8260B			
	ber: U021001AB			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen
3801808	91	89	97	96
3801809	93	94	94	93
3801810	94	95	96	93
Blank	93	93	94	91
LCS	94	95	94	92
MS	94	92	95	95
MSD	94	94	95	95
Limits:	86-118	80-120	88-110	86-115

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



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Page 3 of 3

Client Name: Chevron Products Company Reported: 04/19/02 at 09:03 PM Group Number: 803200

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



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

Chevron California Region Analysis Request/Chain of Custody

Where quality is a science.	01080	2.005	-		Acc	t.#:	10	9 05	<u> </u>	F Sample	or L a 9 #: _	ancast 3 5	ter I <u>3 C</u>	abor 130	stori	es us - / (nly 	SCR#:																																										
							Γ			Þ	naly	/ses	Rec	uest	ed																																														
Facility #: 9-3600 Job #386895	Globel ID#				Matrix			+ [+]			Pres H-	ervati	ion	Code	95			∃		T = Thios	ulfate																																								
Site Address 200 TELEGRAPH AVE., O									1g											B = NaOl O = Othe																																									
Chevron PM: Tom Bauhs Lead				1	60				Silica Gel Cleanup									ł	J value reporti	ng needed																																									
	G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568								8		0								Must meet low	est detecti	on limits																																								
Consultant Prj. Mgr.: Deanna L. Harding	(Deanna@grinc.			L. Harding (Deanna)		.:Deanna L. Harding (Deanna@g		Igr.: Deanna L. Harding (Deanna@grinc.co		(Deanna@grinc.com)						<u> Ogrinc.com</u>)			grinc.com)																		grinc.com)								D Potable			5			0928								possible for 82	-	unas
Consultant Phone #:925-551-7555	_ Fax #: <u>9</u> :	25-551-78	99_			Č		8 8 8	R			421							8021 MTBE Cont		60																																								
Sampler: Tony CAMARDA		[<u>e</u>		ľ	Oil 🗌 Air 🗍 Total Nimber of Containers		TPH 8015 MOD GRO	TPH 8015 MOD DRO	R	Oxygenates	-ead 7420 🔲 7421 🔲							Confirm all hits																																										
Service Order #:N	on SAR:				<u>م</u>			(+ MI 80151	8015	8260 fuli scan	ð	7420							🗋 Run oxy																																										
ample Identification	Date Collected	Time Collected	Grab Composite	l IS	Water				E	8260	4	Lead							Run oxy		s																																								
	4/05/02		X		X		2	<u>× </u>											Comments / R	emarks																																									
MW2-1		1430	X		X		0	XX	4		ļX				_			_																																											
Mw-2_		1413		1-	X			<u>×)</u>	<u>-</u>		X	╂╌╊			-+		-	·																																											
MW·3	4		八	╂	X		0	<u>×</u> /			┢╴	┨─╁		-	-+	-+																																													
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Disk		Temper	ature U	pon F	leceipt	5.	5	C°						Custo	dy S	Seals	Intac	# 7	(Yes) No	1																																									

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA CHEVRON SERVICE STATION 2200 TELEGRAPH AVENUE, BERKELEY, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHmo (TOG)	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene Repor	Total Xylenes rted in milli	MTBE grams per l	VOCs kilogram (n	SVOCs 1g/Kg)	Cd	Cr
<u>2002 Delta</u>	a Monitoring W	Vell Install	ation											
MW-1	3/12/2002	6.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-1	3/12/2002	11.5			3.20	< 0.005	< 0.005	0.15	< 0.15	< 0.05				
MW-1	3/12/2002	16.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-1	3/12/2002	20			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-2	3/12/2002	6.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-2	3/12/2002	11.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-2	3/12/2002	16.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-2	3/12/2002	20			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-3	3/12/2002	6.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-3	3/12/2002	11.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-3	3/12/2002	16.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.15	< 0.05				
MW-3	3/12/2002	20			<1.0	< 0.005	< 0.005	< 0.005	<0.15	< 0.05				
2000 Gettl	ler-Ryan Baseli	ine Investig	gation											
B-1	11/8/2000	6			<1.0	<.005	<.005	<.005	<.005	<.005				
B-1	11/8/2000	10			<1.0	<.005	<.005	<.005	<.005	<.005				
B-2	11/8/2000	6			<1.0	<.005	<.005	<.005	<.005	<.005				
B-2	11/8/2000	10			<1.0	<.005	<.005	<.005	<.005	<.005				
B-3	11/8/2000	5			<1.0	<.005	<.005	<.005	<.005	<.005				
B-4	11/8/2000	5			<1.0	<.005	<.005	<.005	<.005	<.005				
B-4	11/8/2000	10			<1.0	<.005	<.005	<.005	<.005	<.005				
B-5	11/8/2000	5			<1.0	<.005	<.005	<.005	<.005	<.005				
B-5	11/8/2000	10			<1.0	<.005	<.005	<.005	<.005	<.005				
B-6	11/8/2000	5			<1.0	<.005	<.005	<.005	<.005	<.005				
B-6	11/8/2000	10			<1.0	<.005	<.005	<.005	<.005	<.005				
B-7	11/8/2000	5			<1.0	<.005	<.005	<.005	<.005	<.005				
B-7	11/8/2000	10			<1.0	<.005	<.005	<.005	<.005	<.005				
1994 Touc	hstone Product	t-Line Rem	ioval and Sa	mpling Re	port									
P-1	7/25/1994	4.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.005					
P-2	7/25/1994	4.5			<1.0	< 0.005	< 0.005	< 0.005	< 0.005					
P-3	7/25/1994	5			<1.0	< 0.005	0.012	0.008	0.045					
P-4	7/25/1994	5			<1.0	< 0.005	< 0.005	< 0.005	< 0.005					
P-5	7/25/1994	5			<1.0	< 0.005	< 0.005	<0.005	< 0.005					

Ni	Pb	Zn
	32	
	10	
	9.6	
	6.2	
	27	
	26	
	27	
	17	
	8.9	
	27	
	3.6	
	6.5	
	6.8	

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA CHEVRON SERVICE STATION 2200 TELEGRAPH AVENUE, BERKELEY, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHmo (TOG)	TPHd	TPHg	Benzene	Toluene	Ethyl- benzene Repo	Total Xylenes rted in milli	MTBE grams per k	VOCs ilogram (m	SVOCs ng/Kg)	Cd	Cr
P-6	7/25/1994	5.5			3.6	< 0.005	0.03	0.012	1.3					
P-7	7/25/1994	5.5			<1.0	< 0.005	0.005	< 0.005	0.007					
P-8	7/25/1994	5			<1.0	< 0.005	< 0.005	< 0.005	< 0.005					
<u>1986 Blair</u> #2 #3 #1 #2	ne Tech Service 10/27/1986 10/27/1986 10/29/1986 10/29/1986	<u>s Tank Pit</u> 13 13 2.5 2	<u>Sampling</u> 	 	4.5 ND 15 44	 	 	 	 	 		 	 	
#3	10/29/1986	2			1.4									
#4	10/29/1986	2			<1.0									

Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B

Lead by EPA Method 6010B

fbg = Feet below grade

* = unknown laboratory methods

** = Waste Extraction Test (WET) Method

<x = Not detected above method detection limit

Ni	Pb	Zn

CUMULATIVE GRAB-GROUNDWATER ANALYTICAL DATA CHEVRON SERVICE STATION # 9-3600 2200 TELEGRAPH AVE., OAKLAND, CALIFORNIA

						Ethyl-	Total								
		Sample	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 - DCA	EDB	Ethanol
Sample ID	Date	Depth (fbg)				Reported	in microg	grams per	liter (µg,	/L) unles	s otherwi	ise noted			
2002 Delta Well I	nstallation														
MW-1	4/5/2002	12	2,000	5	<1.0	14	8.4	370	<200	<2	<2	10			
MW-2	4/5/2002	11	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.0	<100	<2	<2	<2			
MW-3	4/5/2002	11	<50	< 0.50	0.59	< 0.50	<1.5	<2.0	<100	<2	<2	<2			
2000 Gettler-Ryar	n Baseline Inve	estigation													
B-1	11/8/2000	12.50	29,000	180	<20	2,200	1,100	730	380	<20	<20	<20	<20	<20	<200
B-7	11/8/2000	15.00	<50	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<5.0	< 0.50	< 0.50	< 0.50	<0.5	<0.5	<5.0
1992 Groundwate	r Technology	Inc. Monitorin	g and Sam	pling Ever	nt of Vado	ose Well 2	<u>2-1</u>								
VW-2-1	10/13/1992		42,000	3,300	7,100	540	10,000								
1986 Blaine Tech	Services Tank	Pit Sampling*													
#1	10/24/1986		480,000	10,000	<500		<500								

Notes:

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified

Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); t-butyl alcohol (TBA); di-isopropyl ether (DIPE); ethyl tertiary-butyl ether (ETBE); t-amyl methyl ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB) analyzed by EPA Method 8260B

fbg = feet below grade

<x = Not detected at reporting lin

* = Laboratory methods not available

-- = Not analyzed or not applicable



TRANSMITTAL

November 12, 2008 G-R #386895

CC: Mr. Aaron Costa

Chevron EMC

Room 3660

(VIA PDF)

#9-3600

RO 0002435

RE:

6111 Bollinger Canyon Road

San Ramon, California 94583

Chevron Service Station

2200 Telegraph Avenue

Oakland, California

TO: Ms. Charlotte Evans Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608

FROM: Deanna L. Harding Project Coordinator Gettler-Ryan Inc. 6747 Sierra Court, Suite J Dublin, California 94568

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 6, 2008	Groundwater Monitoring and Sampling Report Fourth Quarter Event of October 9, 2008

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced report for <u>your</u> use and distribution to the following (via PDF):

Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (Distributed by Conestoga-Rovers & Associates via PDF)

Enclosures

trans/9-3600-AC

Chevron

Aaron Costa Project Manager Marketing Business Unit Chevron Environmental Management Company 6111 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 543-2961 Fax (925) 543-2324 acosta@chevron.com

November 12, 2008____

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

Re: Chevron Service Station No. <u>9-36</u>00 Address <u>2200 Telegraph Ave</u>.

I have reviewed the attached routine groundwater monitoring report dated _______.

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

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

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

Sincerely,

Aaron Costa Project Manager

Attachment: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Site Address: City:		egraph A	venue				Job # Event Date: Sampler:	386895 10	-9-0 AW	18	
WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
m~-1	OK			JS IS	01<			N	N	Peruo / 12" /2	N
MW - 2	OK							1	1	1	
mw = 3	OF								\mathbf{V}	$\overline{\mathbf{V}}$	
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Comments



November 6, 2008 G-R Job #386895

Mr. Aaron Costa Chevron Environmental Management Company 6111 Bollinger Canyon Road, Room 3660 San Ramon, CA 94583

RE: Fourth Quarter Event of October 9, 2008 Groundwater Monitoring & Sampling Report Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

Dear Mr. Costa:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding Project Coordinator

Table 2:

Douglas I Lee Senior Geologist, P.G. No. 6882

Figure 1: Potentiometric Map Table 1:

Groundwater Monitoring Data and Analytical Results Groundwater Analytical Results - Oxygenate Compounds Attachments: Standard Operating Procedure - Groundwater Sampling Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

6747 Sierra Court, Suite J • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888 3140 Gold Camp Drive, Suite 170 • Rancho Cordova, CA 95670 • (916) 631-1300 • Fax (916) 631-1317 1364 N. McDowell Blvd., Suite B2 • Petaluma, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

No. 6882 CAL

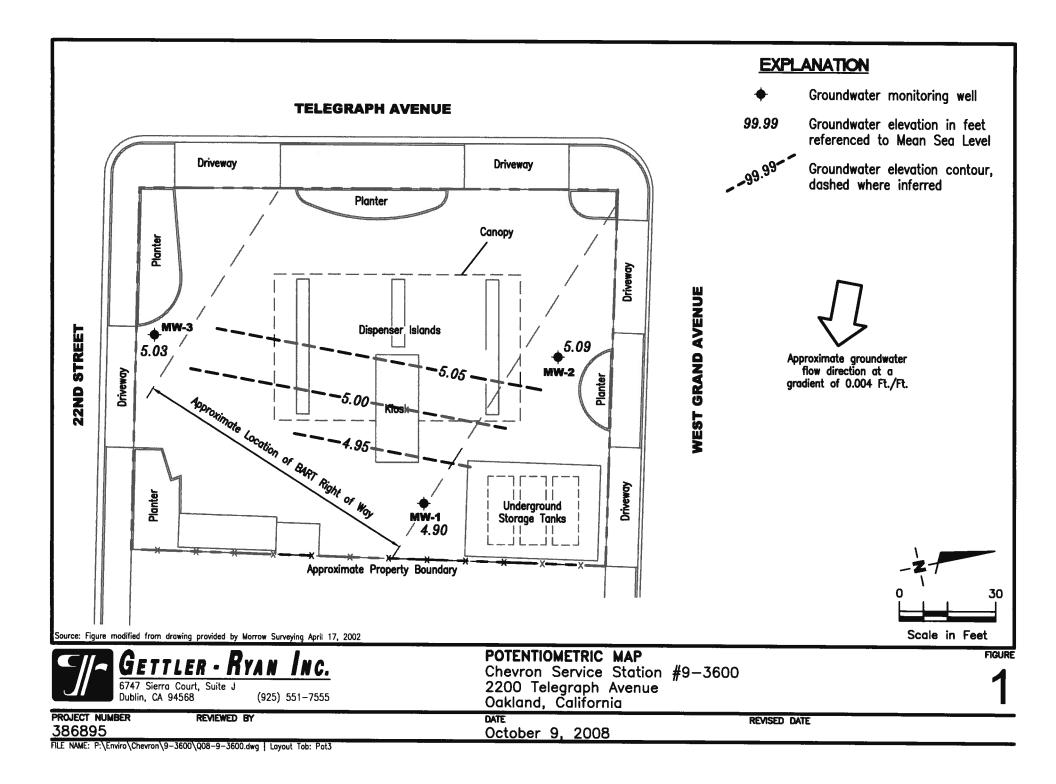


Table 1 Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

WELL ID/	TOC*	DTW	GWE	TPH-G	B	T	E	x	MTBE
DATE	(fl.)	(fi.)	(ft.)	(µg/L)	μ (μg/L)	(µg/L)			• • • • • • • • • • • • • • • • • • • •
<u></u>				VP-51-1-1	(#5/ =)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	17.07	11.60	6.20						
04/05/02 ¹	17.07	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370 ²
07/01/02	17.07	12.01	5.06	2,000	8.9	<1.0	97	31	370/420 ²
10/08/02	17.07	12.20	4.87	1,400	9.2	<10	75	20	440/360 ²
01/11/03	17.07	11.13	5.94	1,600	7.1	0.51	53	13	$280/270^2$
04/01/03	17.07	11.53	5.54	1,800	5.2	0.6	25	9.1	210/210 ²
07/01/03 ³	17.07	11.95	5.12	2,000	4	<0.5	31	12	170
10/02/03 ³	17.07	12.25	4.82	480	<5	<5	<5	<5	9,800
01/05/04 ³	17.07	11.05	6.02	1,700	3	<0.5	27	4	140
04/05/043	17.07	11.63	5.44	1,500	2	<0.5	21	0.6	120
07/01/04 ³	17.07	12.08	4.99	1,500	1	<0.5	3	<0.5	130
10/05/04 ³	17.07	12.21	4.86	1,400	<0.5	<0.5	1	0.5	130
01/04/05 ³	17.07	11.15	5.92	1,500	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 ³	17.07	11.20	5.87	2,100	<0.5	<0.5	4	0.5	61
07/08/05 ³	17.07	11.38	5.69	1,800	<0.5	<0.5	0.8	<0.5	71
10/27/05 ³	17.07	12.24	4.83	800	<0.5	<0.5	<0.5	<0.5	76
01/12/06 ³	17.07	11.10	5.97	1,600	<0.5	<0.5	4	<0.5	47
04/13/06 ³	17.07	10.81	6.26	1,500	<0.5	<0.5	1	<0.5	36
07/13/06 ³	17.07	11.18	5.89	990	<0.5	<0.5	<0.5	<0.5	44
10/16/06 ³	17.07	12.18	4.89	780	<0.5	<0.5	<0.5	<0.5	59
$01/20/07^3$	17.07	11.91	5.16	890	<0.5	<0.5	<0.5	<0.5	47
04/11/07 ³	17.07	11.87	5.20	1,900	<0.5	<0.5	4	<0.5	39
$07/27/07^{3}$	17.07	11.91	5.16	1,500	<0.5	<0.5	0.6	<0.5	56
$10/22/07^{3}$	17.07	4		610	<0.5	<0.5	<0.5	<0.5	65
11/26/07	17.07	11.96	5.11	1 <u>22</u> 1	(40))		8 6		
01/21/083	17.07	11.78	5.29	1,100	<0.5	<0.5	0.8	<0.5	48
04/04/08 ³	17.07	11.83	5.24	1,600	<0.5	<0.5	<0.5	<0.5	53
07/21/08 ³	17.07	12.10	4.97	950	<0.5	<0.5	<0.5	<0.5	72
10/09/08 ³	17.07	12.17	4.90	960	<0.5	<0.5	<0.5	<0.5	59
MW-2									
04/05/021	16.82	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	$\sim c/c^2$
07/01/02	16.82	11.36	5.46	<50	<0.50	0.57	0.52	<1.5 <1.5	$<2.5/<2^{2}$
10/08/02	16.82	11.57	5.25	<100	<2.0	<2.0			<2.5/<2 ²
-3600.xls/#3868			5.25	~100		~2.0	<2.0	<5.0	<10/<2 ²
-2000.413/#2000	75				1				As of 10/09/0

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

					kland, California				
WELL ID/	TOC*	DTW	GWE	TPH-G	B	Т	Е	X	мтве
DATE	(fi.)	(ft.)	(ft.)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-2 (cont)									
01/11/03	16.82	10.94	5.88	<50	<0.50	< 0.50	<0.50	<1.5	<2.5/<2 ²
04/01/03	16.82	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 ²
07/01/03 ³	16.82	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 ³	16.82	11.63	5.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 ³	16.82	10.82	6.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 ³	16.82	11.21	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 ³	16.82	11.46	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 ³	16.82	11.57	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 ³	16.82	10.87	5.95	<50	0.5	<0.5	8	0.9	87
04/14/05 ³	16.82	10.72	6.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 ³	16.82	11.16	5.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 ³	16.82	11.59	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ³	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ³	16.82	10.37	6.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ³	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/063	16.82	11.48	5.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/073	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 ³	16.82	11.20	5.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 ³	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 ³	16.82	4		<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/07	16.82	11.31	5.51						
01/21/083	16.82	11.08	5.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08 ³	16.82	11.12	5.70	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/21/08 ³	16.82	11.56	5.26	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/09/08 ³	16.82	11.73	5.09	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3									
04/05/02 ¹	16.52	11.29	5.23	<50	<0.50	0.59	<0.50	<i>-</i> 1.5	· · · · · · · · · · · · · · · · · · ·
07/01/02	16.52	11.55	4.97	<50	<0.50 <0.50	0.59	<0.50	<1.5	$<2.5/<2^{2}$
10/08/02	16.52	11.62	4.90	<100	<2.0	<2.0	<0.50 <2.0	<1.5	<2.5/<2 ²
01/11/03	16.52	11.02	5.43	<50	<0.50	<0.50	<2.0 <0.50	<5.0	<10/<2 ²
04/01/03	16.52	11.05	5.27	<50	<0.50	<0.50	<0.50	<1.5	$<2.5/<2^{2}$
07/01/03 ³	16.52	11.42	5.10	<50	<0.5	<0.5	<0.5	<1.5 <0.5	<2.5/<0.5 ²
			5.10	-50		NU. J	<u>∼∪.</u> J	NU.3	2
-3600.xls/#3868	73				2				As of 10/09/0

Table 1 Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600

2200 Telegraph Avenue Oakland, California

				Oa	kland, California		Accession of the second second		
WELL ID/	TOC*	DTW	GWE	TPH-G	В	Т	E	x	мтве
DATE	(fl.)	(fi.)	(fL)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3 (cont)							(la		
10/02/03 ³	16.52	11.74	4.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 ³	16.52	11.06	5.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 ³	16.52	11.40	5.12	<50	<0.5	<0.5	<0.5	<0.5	0.6
07/01/04 ³	16.52	11.58	4.94	<50	<0.5	<0.5	<0.5	<0.5	0.8
10/05/04 ³	16.52	11.60	4.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 ³	16.52	10.95	5.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 ³	16.52	11.10	5.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 ³	16.52	11.29	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 ³	16.52	11.68	4.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ³	16.52	10.83	5.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ³	16.52	10.65	5.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ³	16.52	11.03	5.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 ³	16.52	11.46	5.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 ³	16.52	11.39	5.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 ³	16.52	11.27	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 ³	16.52	11.38	5.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 ³	16.52	4	2 55 0	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/07	16.52	11.35	5.17						
01/21/08 ³	16.52	11.16	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/04/08 ³	16.52	11.15	5.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/21/08 ³	16.52	11.38	5.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/09/08 ³	16.52	11.49	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	_								
TRIP BLANK	K								
QA									
04/05/02				<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/01/02			()	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/08/02				<100	<2.0	<2.0	<2.0	<5.0	<10
01/11/03				<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/03				<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/01/03 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 ³		8 44 3		<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 ³		()		<50	<0.5	<0.5	<0.5	<0.5	<0.5
-3600.xls/#3868	95				3				As of 10/09/0

Table 1 Groundwater Monitoring Data and Analytical Results Chargen Service Station #0.2600

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

WELL ID/	TOC*	DTW	GWE	TPH-G	В	Т	E	X	МТВЕ
DATE	(fl.)	(fl.)	(fl.)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
QA (cont)								0.00	
04/05/04 ³	-			<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
$10/27/05^3$	-			<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 ³	-	<u></u>		<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 ³	-			<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
$01/20/07^3$				<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 ³			 .	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/08 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
4/04/08 ³				<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/21/08 ³			<u></u> -	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/09/08 ³	-			<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

EXPLANATIONS:

TOC = Top of Casing (ft.) = Feet DTW = Depth to Water GWE = Groundwater Elevation TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene T = Toluene E = Ethylbenzene X = Xylenes MTBE = Methyl Tertiary Butyl Ether (μg/L) = Micrograms per liters --- = Not Measured/Not Analyzed QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

¹ Well development performed.

² MTBE by EPA Method 8260.

³ BTEX and MTBE by EPA Method 8260.

⁴ DTW measurements were not recorded correctly.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California				
	Oak	and	Cal	lifamia

				akland, California			
WELL ID	DATE	ETHANOL	ТВА	MTBE	DIPE	ETBE	TAME
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	04/05/02		200	370	<2	<2	10
	07/01/02		190	420	<2	<2	9
	10/08/02		110	360	<2	<2	8
	01/11/03		<100	270	<2	<2	7
	04/01/03		22	210	<0.5	<0.5	5
	07/01/03	<50	26	170	<0.5	<0.5	5
	10/02/03	<500	2,600	9,800	<5	<5	6
	01/05/04	<50	21	140	<0.5	<0.5	3
	04/05/04	<50	17	120	<0.5	<0.5	3
	07/01/04	<50	13	130	<0.5	<0.5	2
	10/05/04	<50	14	130	<0.5	<0.5	2
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/14/05	<50	15	61	<0.5	<0.5	1
	07/08/05	<50	15	71	<0.5	<0.5	i
	10/27/05	<50	10	76	<0.5	<0.5	1
	01/12/06	<50	12	47	<0.5	<0.5	<0.5
	04/13/06	<50	8	36	<0.5	<0.5	0.6
	07/13/06	<50	7	44	<0.5	<0.5	0.7
	10/16/06	<50	6	59	<0.5	<0.5	1
	01/20/07	<50	8	47	<0.5	<0.5	0.8
	04/11/07	<50	9	39	<0.5	<0.5	0.7
	07/27/07	<50	8	56	<0.5	<0.5	0.8
	10/22/07	<50	5	65	<0.5	<0.5	0.7
	01/21/08	<50	5	48	<0.5	<0.5	0.7
	04/04/08	<50	6	53	<0.5	<0.5	0.6
	07/21/08	<50	11	72	<0.5	<0.5	0.7
	10/09/08	<50	5	59	<0.5	<0.5	0.5
MW-2	04/05/02		<100	<2	<2	<2	<2
	07/01/02	3 0	<100	<2	<2	<2	<2
	10/08/02	-	<100	<2	<2	<2	<2
	01/11/03		<100	<2	<2	<2	<2
	04/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600

2200 Telegraph Avenue

[201] - 2019 (Constant)		
Ookland	Califa	and in
Oakland.	Came	ятна

WELL ID	DATE	ETHANOL	ТВА	akland, California MTBE	DIPE	ETBE	TAME
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
AW 2 (c+)	10/02/02			52			
AW-2 (cont)	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	14	87	<0.5	<0.5	2
	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/25/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/22/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5
6 W 2	04/05/02		-100				
1W-3	04/05/02		<100	<2	<2	<2	<2
	07/01/02		<100	<2	<2	<2	<2
	10/08/02		<100	<2	<2	<2	<2
	01/11/03	5 75	<100	<2	<2	<2	<2
	04/01/03		<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	2	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	0.6	<0.5	<0.5	<0.5
	07/01/04	<50	<5	0.8	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600

2200 Telegraph Avenue

0.11.1	C-11C 1
Oakland,	California

WELL ID	DATE	ETHANOL	ТВА	MTBE	DIPE	ETBE	TAME
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3 (cont)	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/22/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/04/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/09/08	<50	<2	<0.5	<0.5	<0.5	<0.5

Table 2 Groundwater Analytical Results - Oxygenate Compounds Chevron Service Station #9-3600 2200 Telegraph Avenue Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = di-Isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

 $(\mu g/L) =$ Micrograms per liters

-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-3600	Job Number:	386895	
Site Address:	2200 Telegraph Avenue	Event Date:	10-9-08	- ,(inclusive)
City:	Oakland, CA	Sampler:	AW	- (
Well ID	MW- /	Date Monitored:	10-9.08	
Well Diameter Total Depth		/olume 3/4"= 0.02 actor (VF) 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.38	
Depth to Water		blumn is less then 0.50 f 35 x3 case volume = E		_ gal.
Depth to Water w	// 80% Recharge [(Height of Water Column x 0.	20) + DTWJ: <u>13.76</u>	-	
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump	Sampling Equipme Disposable Bailer Pressure Bailer Discrete Bailer Peristaltic Pump QED Bladder Pump Other:		Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description: Skimmer / Absorbant Sock (circl Amt Removed from Skimmer:	(2400 hrs) ft ft ft e one)
QED Bladder Pump Other:			Amt Removed from Well: Water Removed: Product Transferred to:	
Start Time (purge) Sample Time/Date Approx. Flow Rate Did well de-water?	e: 1045 / 10-9-04 Water Co	Description:	Swiny Door: 1 N <u>Slisht</u> (/oud-/ il. DTW@Sampling: 13.	74
Time (2400 hr.) 1025 1024 1033	Volume (gal.) pH Conductivity (μ mhos/cm - μ S) 1.5 6.87 6.57 3.0 6.51 6.55 4.0 6.69 6.72	$ \begin{array}{c} Temperature \\ (C / F) \\ 2.0.4 \\ \hline 2.1.0 \\ 2.1.0 \\ \end{array} $	D.O. ORP (mg/L) (mV)	

		L	ABORATORY IN	FORMATION	
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/
			ia		5 OXYS+ETHANOL (8260)

COMMENTS:

Add/Replaced Lock:

Add/Replaced	Plug:	_
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WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-3600	Job Number:	386895			
Site Address:	2200 Telegraph Avenue	Event Date:	10-9-04	-		
City:	Oakland, CA	Sampler:	Aw	(inclusive)		
Well ID Well Diameter Total Depth Depth to Water Depth to Water w Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	11 - 773 ft Cbeck if water c	0.20) + DTW]:	1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80 t. 4.5 stimated Purge Volume: 4.5 Time Started:	gal. (2400 hrs) (2400 hrs) ft ft ft ft ft ft		
Start Time (purge): Sample Time/Date Approx. Flow Rate Did well de-water? Time (2400 hr.) <u>Ú950</u> <u>0954</u> <u>1000</u>	: gpm. Water Co	t Description: olume: gal.	6 54/11-1 dor: Y 1/N DTW @ Sampling:3 D.O. ORP (mg/L) (mV)	3		

SAMPLE ID	(1) 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L	ABORATORY IN	FORMATION	
	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 2	<u> </u>	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTRE(8260)/
					5 OXYS+ETHANOL (8260)
MMENTS					

VIVIENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-3600	Job Number:	386895	
Site Address:	2200 Telegraph Avenue	Event Date:	10.9.03	– (inclusive)
City:	Oakland, CA	Sampler:	AW	-`´´´
Well ID	<u>мw- 3</u>	Date Monitored:	10.9.04	
Well Diameter Total Depth	2 in. 2013 ft.	Volume 3/4"= 0.02 Factor (VF) 4"= 0.66		
Depth to Water	11.49 ft. Check if wa	ter column is less then 0.50 146 x3 case volume = E	ft. <i>Fr</i>	gal.
Depth to Water w	/ 80% Recharge [(Height of Water Colum	nn x 0.20) + DTWJ: 13.22		
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	Sampling Ec	aller er Pr Pump	Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description Skimmer / Absorbant Sock (circ Amt Removed from Skimmer: Amt Removed from Well: Water Removed: Product Transferred to:	ft ft : : le one) gal
Start Time (purge) Sample Time/Dat Approx. Flow Rate Did well de-water	e: <u>0935 / 10-9-09</u> Wat e:gpm. Sedi	iment Description:	Suin-j Odor: Y IN (eug al. DTW @ Sampling:3	
Time (2400 hr.) <u>6922</u> <u>69225</u>	Volume (gal.) pH Conduct (μ mhos/cr $\overrightarrow{1.5}$ $\overrightarrow{6.87}$ $\overbrace{6.5}^{7.5}$ $\overrightarrow{7.5}$ $\overbrace{6.94}^{7.94}$ $\overbrace{6.6}^{7.5}$	4 19.4	D.O. ORP (mg/L) (mV)	

	LABORATORY INFORMATION									
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES					
MW- <u>3</u>	x voa vial	YES	HCL		TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL (8260)					
	-									

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Add/Replaced Bolt: _____

	Chevr	on Cc	alife	orn	ia	Re	g	ioi	nA	An	ah	/si	s R	ec	<i>au</i>	es	t/(Chain of	Cu	sta
Lancaster Laboratories	da di	Â	/09	104	/ {	F77 . 1001. #	 	44 ////	400		A voji Fo	2/04 or Lan o #	caste 54	r Lab) <i>5</i> (orato 200-	ries - D	3	only Group #:	004	380
ję ę (00.06										Ana	yse s	Req	lest	ed	_		1		
Facility #: SS#9-360040MD G-R#38689			513		Matri	×	T					serva	tion		8			Preservati	ive Cod	les
Site Address 2200 TELEGRAPH AVENUE,		And in case of the second s					ł	버			- <u> H</u>			1	+-	╋	+	H = HCI T = Thiosulfate		
Chevron PM.AC Lead Consultant/Office: G-R, Inc., 6747 Sierra Co	Consultant	ACE			1	П											ĺ) = NaO) = Othe	
Consultant/Office: G-R, Inc., 6747 Sierra Co	urt, Suite J, E	Dublin, CA 9	94568		Potable NPDFS		ner			8	6			<u>Ş</u>				J value reporting		
Consultant Prj. Mgr (deanna@grinc.com)							Total Number of Containers	8260 K 8021		TPH 8015 MOD DRO L.J Silica Gel Cleanup EDED full energy	6240)			3				Must meet lowe possible for 826	st detect	tion limit
Consultant Phone #925-551-7555 Fax #:925-551-7899					<u> </u>		8	S.				1 월	ĐĘ Ì					8021 MTBE Confir		JUNUS
Sampler: Alex Worm							à	8	TPH 8015 MOD GRO	Б Q	5 Oxygenates	Met	Dissofted Lead Method	TANOL				Confirm highest		260
					.	ΪŻ	<u>اچ</u>	Ē	12 WG			-		A A				Confirm all hits I		
Sample Identification	Date Collected	Time	Grab	Soil	Water	oil 🗆 Air	<u>a</u>	BTEX + MIBE	ŝ	H 80		Total Leed	Solver 1	F				🔲 Run oxy's	on highe	
QA	10-9-08	Collected	<u>X</u>	2 0	I.≯			튓.	타		<u> </u>	Ę	ő	4_		<u> </u>		🛛 Run oxy's		ts
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Lancaster Laboratories, Inc., 2425 New Hofland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4804.01 (north) Rev. 10/12/06

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ANALYTICAL RESULTS

Prepared for:

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583



OCT 2 3 2008

GETTLER-RYAN INC. GENERAL CONTRACTORS

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1114440. Samples arrived at the laboratory on Friday, October 10, 2008. The PO# for this group is 0015025028 and the release number is COSTA.

Client Description QA-T-081009 NA Water MW-1-W-081009 Grab Water MW-2-W-081009 Grab Water MW-3-W-081009 Grab Water

Lancaster Labs Number 5495000 5495001 5495002 5495003

ELECTRONIC CRA c/o Gettler-Ryan COPY TO

Attn: Cheryl Hansen





Questions? Contact your Client Services Representative Jill M Parker at (717) 656-2300

Respectfully Submitted,

Lacy U.C.L. Tracy A. Cole Senior Specialist





Page 1 of 1

Lancaster Laboratories Sample No. WW5495000

QA-T-081009 NA Water Facility# 93600 Job# 386895 GRD 2200 Telegraph-Oakland T0600161613 QA Collected:10/09/2008

Submitted: 10/10/2008 10:00 Reported: 10/22/2008 at 10:06 Discard: 11/22/2008 Group No. 1114440

Account Number: 10904

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

109TB

CAT No. 01728 06054	Analysis Name TPH-GRO - Waters BTEX+MTBE by 8260B	CAS Number n.a.	As Received Result N.D.	As Received Method Detection Limit 50	Units ug/l	Dilution Factor 1
02010 05401 05407 05415 06310	Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	1634-04-4 71-43-2 108-88-3 100-41-4 1330-20-7	N.D. N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5 0.5	ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1

State of California Lab Certification No. 2116

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

Laboratory Chronicle

CAT		habbracory chronicle							
				Analysis		Dilution			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor			
01728	TPH-GRO - Waters	SW-846 8015B modified	1 1	10/16/2008 05:09	Carrie E Youtzy	1			
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	10/15/2008 04:52		1			
01146	GC VOA Water Prep	SW-846 5030B			Michael A Ziegler	1			
01163	GC/MS VOA Water Prep		T	10/16/2008 05:09	Carrie E Youtzy	1			
01103	GC/M5 VOA water Prep	SW-846 5030B	1	10/15/2008 04:52	Michael A Ziegler	1			





Page 1 of 1

Lancaster Laboratories Sample No. WW5495001 Group MW-1-W-081009 Grab Water Facility# 93600 Job# 386895 GRD 2200 Telegraph-Oakland T0600161613 MW-1 Collected:10/09/2008 by AW Account Nu

Submitted: 10/10/2008 10:00 Reported: 10/22/2008 at 10:06 Discard: 11/22/2008 Group No. 1114440

Account Number: 10904

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

10901

CAT No. 01728	Analysis Name TPH-GRO – Waters	CAS Number n.a.	As Received Result 960	As Received Method Detection Limit 50	Units ug/l	Dilution Factor 1
06059	BTEX+5 Oxygenates+ETOH					
01587 02010 02011 02013 02014 02015 05401 05407 05415 06310	Ethanol Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene Toluene Ethylbenzene Xylene (Total)	64-17-5 1634-04-4 108-20-3 637-92-3 994-05-8 75-65-0 71-43-2 108-88-3 100-41-4 1330-20-7	N.D. 59 N.D. N.D. 0.5 5 N.D. N.D. N.D. N.D.	50 0.5 0.5 0.5 2 0.5 0.5 0.5 0.5 0.5	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1 1 1 1 1 1

State of California Lab Certification No. 2116

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

CAT		Laboratory	Chro	nicle		
06059 01146	Analysis Name TPH-GRO - Waters BTEX+5 Oxygenates+ETOH GC VOA Water Prep GC/MS VOA Water Prep	Method SW-846 8015B modified SW-846 8260B SW-846 5030B SW-846 5030B	1 1	Analysis Date and Time 10/16/2008 05:31 10/15/2008 11:07 10/16/2008 05:31 10/15/2008 11:07	Analyst Carrie E Youtzy Ginelle L Feister Carrie E Youtzy Ginelle L Feister	Dilution Factor 1 1 1 1





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Lancaster Laboratories Sample No. WW5495002

MW-2-W-081009 Grab Water Facility# 93600 Job# 386895 GRD 2200 Telegraph-Oakland T0600161613 MW-2 Collected:10/09/2008 by AW

Submitted: 10/10/2008 10:00 Reported: 10/22/2008 at 10:06 Discard: 11/22/2008 Group No. 1114440

Account Number: 10904

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

1090)2
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CAT No. 01728 06059	Analysis Name TPH-GRO - Waters	CAS Number n.a.	As Received Result N.D.	As Received Method Detection Limit 50	Units ug/l	Dilution Factor 1
01587 02010 02011 02013 02014 02015 05401 05407 05415 06310	BTEX+5 Oxygenates+ETOH Ethanol Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene Toluene Ethylbenzene Xylene (Total)	64-17-5 1634-04-4 108-20-3 637-92-3 994-05-8 75-65-0 71-43-2 108-88-3 100-41-4 1330-20-7	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	50 0.5 0.5 0.5 2 0.5 0.5 0.5 0.5 0.5	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1 1 1 1 1 1

State of California Lab Certification No. 2116

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

CAT		Laborator	y Chrc	nicle		
01728 06059 011 4 6	Analysis Name TPH-GRO - Waters BTEX+5 Oxygenates+ETOH GC VOA Water Prep GC/MS VOA Water Prep	Method SW-846 8015B modifi SW-846 8260B SW-846 5030B SW-846 5030B	1 1	10/16/2008 05:53 10/15/2008 12:18 10/16/2008 05:53	Ginelle L Feister	Dilution Factor 1 1 1 1





Page 1 of 1

Lancaster Laboratories Sample No. WW5495003

MW-3-W-081009 Grab Water Facility# 93600 Job# 386895 GRD 2200 Telegraph-Oakland T0600161613 MW-3 Collected:10/09/2008 by AW

Submitted: 10/10/2008 10:00 Reported: 10/22/2008 at 10:06 Discard: 11/22/2008

10903

Group No. 1114440

Account Number: 10904

Chevron 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

CAT No. 01728	Analysis Name TPH-GRO - Waters	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06059	BTEX+5 Oxygenates+ETOH		N.D.	50	ug/l	1
01587 02010 02011 02013 02014 02015 05401 05407 05415 06310	Ethanol Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene Toluene Ethylbenzene Xylene (Total)	64-17-5 1634-04-4 108-20-3 637-92-3 994-05-8 75-65-0 71-43-2 108-88-3 100-41-4 1330-20-7	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	50 0.5 0.5 0.5 2 0.5 0.5 0.5 0.5	ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1 1 1 1

State of California Lab Certification No. 2116

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

CAT		Laboratory	Chro	nicle		
06059 01146	Analysis Name TPH-GRO - Waters BTEX+5 Oxygenates+ETOH GC VOA Water Prep GC/MS VOA Water Prep	Method SW-846 8015B modified SW-846 8260B SW-846 5030B SW-846 5030B	1 1	10/15/2008 12:42 10/16/2008 06:14	Analyst Carrie E Youtzy Ginelle L Feister Carrie E Youtzy Ginelle L Feister	Dilution Factor 1 1 1 1



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

Page 1 of 3

Quality Control Summary

Client Name: Chevron Reported: 10/22/08 at 10:06 AM

Group Number: 1114440

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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD Limits	RPD	<u>RPD Max</u>
Batch number: 08289B20A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	5495000-54 ug/l	95003 100	100	75-135	0	30
Batch number: D082883AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample nu N.D. N.D. N.D. N.D. N.D.	umber(s): 0.5 0.5 0.5 0.5 0.5 0.5	5495000 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	99 97 89 86 89		73-119 78-119 85-115 82-119 83-113		
Batch number: D082891AA Ethanol Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene Toluene Ethylbenzene Xylene (Total)	Sample nu N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	<pre>mber(s): 50. 0.5 0.5 0.5 2. 0.5 0.5 0.5 0.5 0.5 0.5</pre>	5495001-54 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	95003 106 102 90 91 89 84 95 91 88 91		45-156 73-119 70-123 74-120 79-113 74-117 78-119 85-115 82-119 83-113		

Sample Matrix Quality Control

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

<u>Analysis Name</u>	MS <u>%rec</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: 08289B20A TPH-GRO – Waters	Sample 100	number(s)	: 5495000 63-154	-549500	3 UNSPR	ζ: 5495002			<u>,</u>
Batch number: D082883AA Methyl Tertiary Butyl Ether Benzene Toluene Ethylbenzene Xylene (Total)	Sample 96 94 89 87 90	number(s) 103 103 98 95 98	: 5495000 69-127 83-128 83-127 82-129 82-130	UNSPK: 7 9 9 9 8	P49101 30 30 30 30 30 30	.0			
Batch number: D082891AA Ethanol Methyl Tertiary Butyl Ether di-Isopropyl ether	Sample : 122 95 92	number(s) 131 105 95	: 5495001- 32-164 69-127 68-129	-549500 8 2 3	3 UNSPK 30 30 30 30	: 5495001			

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.





Page 2 of 3

Quality Control Summary

Client Name: Chevron Reported: 10/22/08 at 10:06 AM

Group Number: 1114440

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

<u>Analysis Name</u> Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene Toluene Ethylbenzene Xylene (Total)	MS <u>%RBC</u> 91 93 83 100 94 94 94 94	MSD <u>%REC</u> 92 95 81 103 95 96	MS/MSD Limits 78-119 72-125 70-121 83-128 83-127 82-129	RPD 1 2 1 3 1 3	RPD <u>MAX</u> 30 30 30 30 30 30 30	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Aylene (Total)	94	97	82-130	3	30				

Surrogate Quality Control

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

Analysis Name: TPH-GRO - Waters Batch number: 08289B20A Trifluorotoluene-F

5495000	83
5495001	98
5495002	84
5495003	82
Blank	82
LCS	106
LCSD	105
MS	105

Limits: 63-135

Analysis Name: BTEX+MTBE by 8260B Batch number: D082883AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5495000 Blank LCS	97 96 94	99 101 100	89 91	97 98
MS MSD	95 97	99 102	88 88 90	96 97 99
Limits: Analysis	80-116 Name: BTEX+5 Oxygenates+ET	77-113	80-113	78-113
Batch num	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5495001 5495002 5495003 Blank LCS MS	96 95 97 97 97 97 94	99 100 99 100 99 100	90 88 88 90 90 87	101 97 96 97 100 97

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.





Page 3 of 3

Quality Control Summary

Client Na Reported:	me: Chevron 10/22/08 at 10:06	AM	Group Number: 1114440	
MSD	97	98	urrogate Quality Control ⁸⁹	100
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm C Cal meq g ug	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s)	BMQL MPN CP Units NTU F ib. kg mg i	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s)
ml	milliliter(s)	l U	liter(s) microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per mi

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

- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight** basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.
- U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

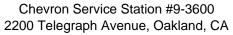
- **B** Value is <CRDL, but \geq IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike amount not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate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

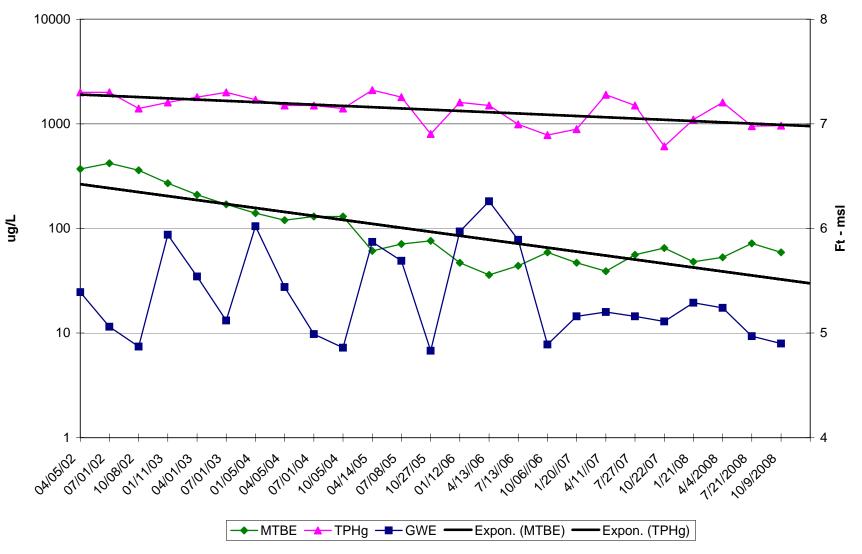
Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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TPHg and MTBE versus Time in MW-1





MONITORING WELL CONSTRUCTION DETAIL TABLE CHEVRON SERVICE STATION 2200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA

D	inches)	Depth	Interval	Slot Size	Filter Pack
Well ID ((fbg)	(fbg)	(inches)	Type
MW-1	2	20	5-20	0.020 inch	#3 Lonestar
MW-2	2	20	5-20	0.020 inch	#3 Lonestar
MW-3	2	20	5-20	0.020 inch	#3 Lonestar

Notes:

fbg = Feet below grade



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

September 2, 1992

Mr. Greg Mischel Groundwater Technology, Inc. 4057 Port Chicago Highway Concord, CA 94520

Re: **Chevron Service Station 9-3600** 2200 Telegraph Avenue, Oakland, CA

Dear Mr. Mischel:

THO DID

Enclosed is a copy of the Site Plan showing locations of the vadose wells at the above referenced site to assist Groundwater Technology, Inc. in performing a preliminary site investigation. The sixteen wells with vapor sensors were installed during the station reconstruction around 1986-87 because BART tracks run directly beneath the site in an underground tunnel. Approximately three μ_{0} , μ_{1} , μ_{2} weeks ago all sixteen sensors went off simultaneously. The sensors were replaced and currently only one sensor designated 2-1 on the site plan continues to go off.

> The dealer at this site has reported no recent loss of inventory and the tanks tested tight in 1991. According to the dealer, standing water was observed in well 2-1 when the sensors were replaced. For your reference I have also enclosed information on these sensors which indicates that they are not tolerant of fluids. I believe that the old sensors may have come in contact with water in some form or another and malfunctioned. The one new sensor which continues to go off may be due to the standing water in the well.

> I would like Groundwater Technology, Inc. to screen vadose well 2-1 with a PID, bail the well dry, and take a grab sample to be analyzed for TPH-gas and BTEX. Vadose well 2-1 is labelled in white paint with a large "2-1" on the underside of the manhole cover to avoid confusion. Please perform this work within thirty days and submit a report documenting all findings.

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Very truly yours, CHEVRON U.S.A. PRODUCTS COMPANY

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Mark A. Miller Site Assessment and Remediation Engineer

Enclosures cc: File (9-3600 RFP1)



4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

November 20, 1992

Job Number 020203282

NOV 25 '92 JST

Mr. Mark Miller Chevron USA Products Company P.O. Box 5004 San Ramon, CA 94583

RE:

MONITORING AND SAMPLING REPORT OF VADOSE WELL 2-1 CHEVRON SERVICE STATION No. 9-3600 2200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA

Dear Mr. Miller:

On October 13, 1992, at the request of Chevron U.S.A. Products Company (Chevron) Groundwater Technology, Inc. monitored vadose well (VW-2-1) at the above referenced site. Organic vapor concentrations were measured with a photo-ionization detector (PID), water samples from the well were collected and submitted for analysis. Water samples were analyzed for total petroleum hydrocarbons (TPH)-as-gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX). The work was performed in accordance with the letter dated September 2, 1992 from Mr. Mark Miller of Chevron.

The PID was calibrated with 100 parts per million isobutylene. The vapors within the well were measured after the well cap was removed. The PID registered 105 parts per million of total petroleum hydrocarbons. The well was then gauged to determine depth to water (DTW), depth to product (DTP), and total depth (TD) of the well. Results of the October 13, 1992, monitoring event indicate DTP is 4.42 feet, DTW is 4.43 feet, and TD is 5.14 feet. The reading of 0.01 foot of product could not be confirmed with a clear acrylic bailer.

Efforts to purge the well were unsuccessful because there was not enough water in the well to bail. Water samples were collected from the standing water in the well with a clean tefion sampler. Water samples were placed into 40 milliliter glass containers and fitted with a plastic cap lined with a tefion stepum. The samples were sealed so that no air remained inside. The samples were labeled and placed in an insulated cooler for transportation to a California certified laboratory for analyses. A chain-of-custody record was filled out and accompanied the samples at all times. After the groundwater samples were collected the well was secured with the cap and the lid to the road box was replaced.

Analytical results of the water samples collected on October 13, 1992, reported detectable concentrations of TPH-as-gasoline and BTEX. The results are summarized below and laboratory report and chain-of-custody record are included in Attachment A.

WELL ID	TPH-AS- GASOLINE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE
VW-2-1	42,000	3,300	7,100	540	10,000

Note: Concentrations in parts per billion (ppb)

This concludes Groundwater Technology's letter report for monitoring and sampling of vadose well VW 2-1 at 2200 Telegraph Avenue, Oakland, California. Groundwater Technology appreciates this opportunity to be of service to Chevron. If you have any questions regarding this letter report please contact us at (510) 671-2387.

Sincerely, GROUNDWATER TECHNOLOGY, INC

Jim Watchers

Tim Watchers Project Geologist

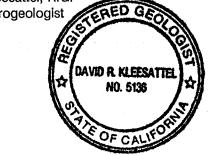
Knolse Sandra L. Lindsey

Project Manager

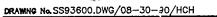
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GROUNDWATER TECHNOLOGY, INC

David R. Kleesattel, R.G. District Hydrogeologist

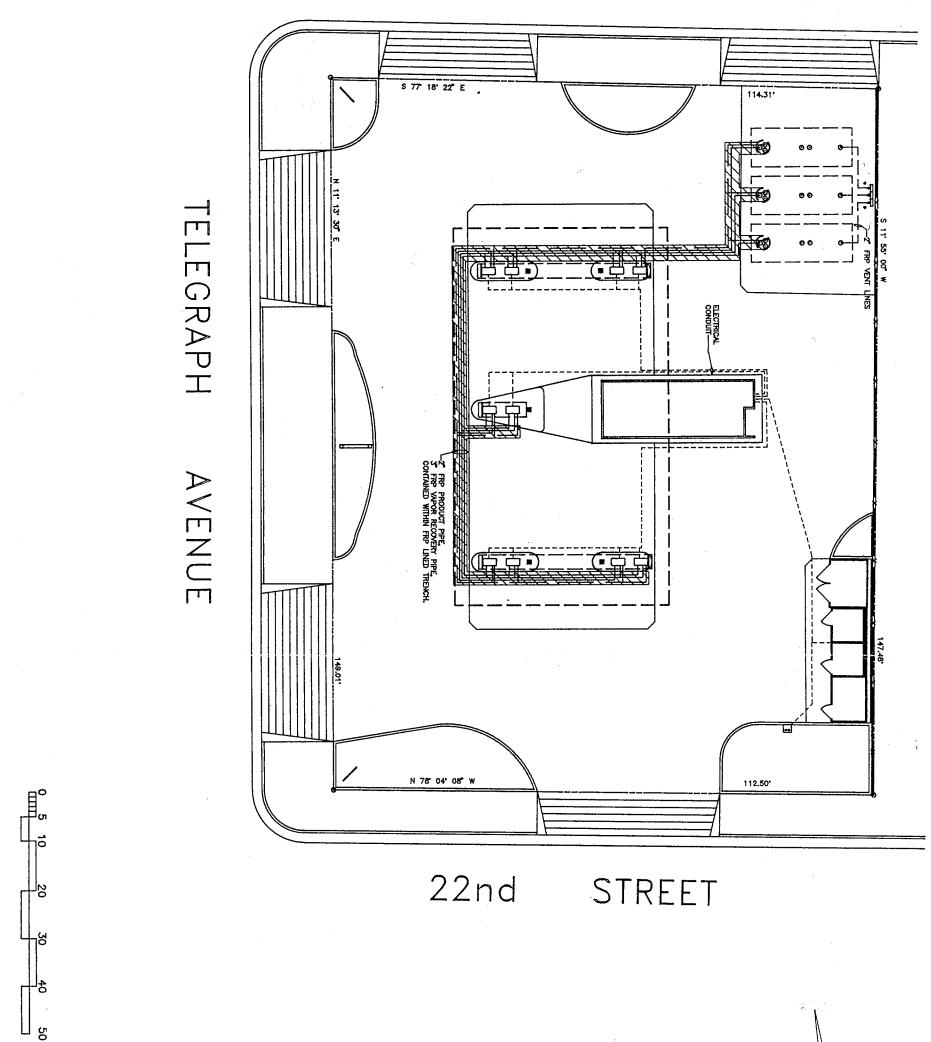






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WEST GRAND AVENUE



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Chevren U.S.A. Inc. Handing Operations San Remon REVISIONS AND CONDUIT 08/119/71 HCH			
SITE PLAN DEALER OPERATED 9 TELEGRAPH & WEST OAKLAND, CALIFORN SCALE 1 = 10'-0' RE-HCH CH. RE-HCH CH. RE-HCH CH. RE-HCH CH.			
<u>3600 GRAND</u> ЛА раће.08/30/90 ирр.		 	

ATTACHMENT A

LABORATORY REPORT

GROUNDWATER

Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

GROUNDWATEN Attn: Sandı				Project "PENDING" Reported 10/18/92
		TOTAL PETROLEUM	HYDROCARBONS	
Lab #	Sample	Identification	Sampled	Analyzed Matrix
86915- 1	MW-2-1		10/12/82	10/17/92 Water
Laboratory	Number:	RESULTS OF A 86915- 1	NALYSIS	
Gasoline: Benzene: Toluene: Ethyl Benzer Xylenes:	ne:	42000 3300 7100 540 10000		-
Concentratio	on:	ug/L		

Page 1 of 2

Certified Laboratories

Superior Precision Analytical, Inc. .

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 86915

NA = ANALYSIS NOT REQUESTED ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT ug/L = parts per billion (ppb)

- OIL AND GREASE ANALYSIS By Standard Methods Method 5520F: Minimum Detection Limit in Water: 5000ug/L
- Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons: Minimum Quantitation Limit for Diesel in Water: 50ug/L
- EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/L

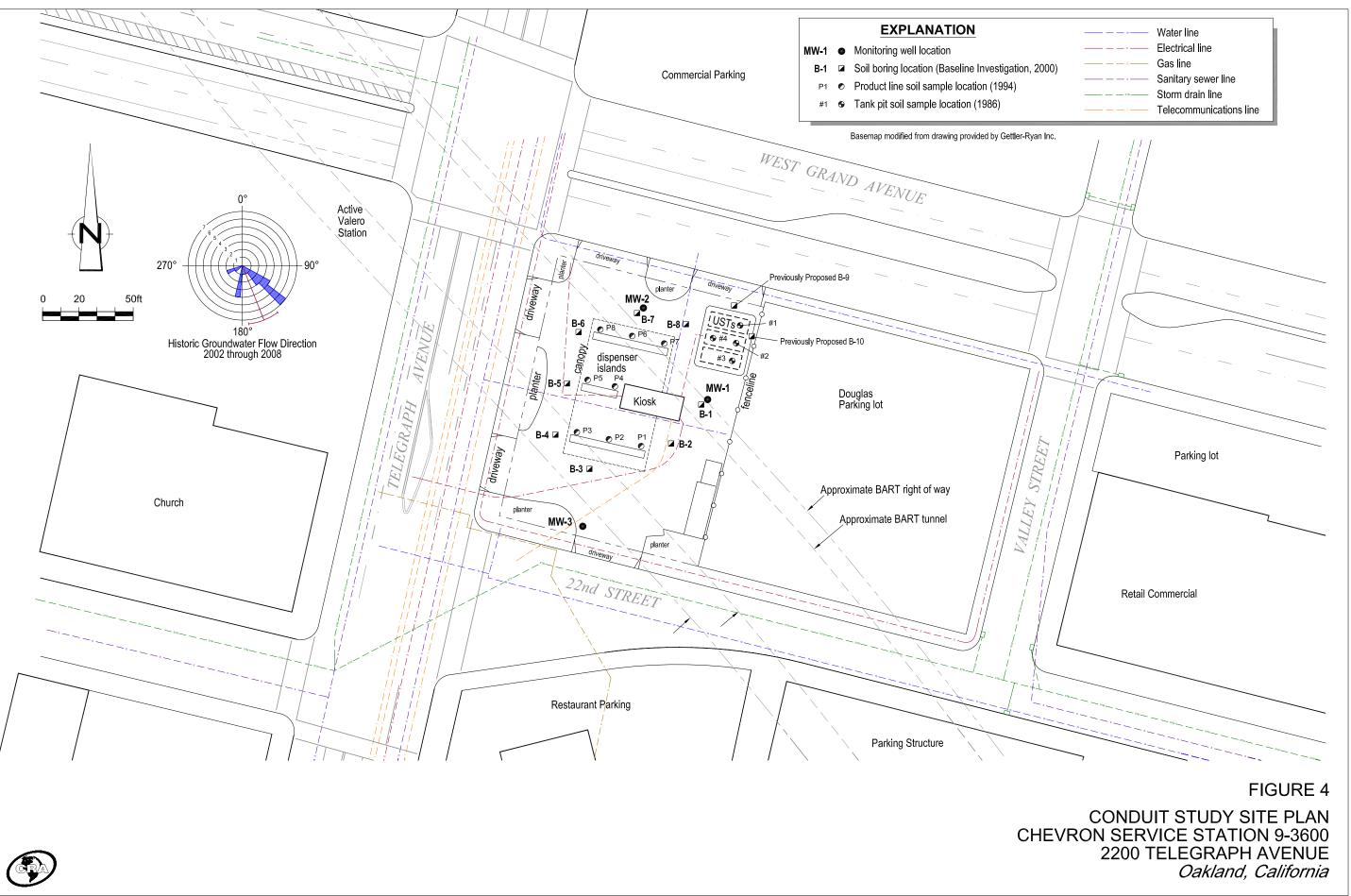
EPA SW-846 Method 8020/BTXE Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	103/105	28	70-130
Benzene:	200 ng	93/95	28	70-130
Toluene:	200 ng	97/100	3%	70-130
Ethyl Benzene:	200 ng	101/103	2%	70-130
Xylenes:	200 ng	99/102	38	70-130

Richard Srna, Ph.D. Laboratory Direc

Certified Laboratories

Fax cop	by of	Lab	Rep	ort c	ind			/ron	Со	ntac	t: 🗆	Ye No	5 8 E	715		CI	nair	1-0	f-(Cust	ody-Reco	rd
Chevron U.S P.O. BOX San Ramon, (FAX (415)84	5004 CA 94583	Coneu Coneu Ac	Facilit Itant Pro Itant Na Idress	me <u> </u>	<u>22</u> nber <u></u> <u>1000 ALI</u> 57	Pending Weter	P Gra Tec Chicis	Graph R.e. (Phone) <u>8'12-813'1</u> Laboratory Name <u>Spiritoria</u> Laboratory Release Number <u>8212570</u> Laboratory Release Num														
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soli A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Itme	Sample Preservation	iced (Yes or No)	BTEX + TPH CAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grades (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeoble Organica (8240) (8240)	anica	Metale Cd,Cr,Pb,Zn,Ni (ICAP or AA)	ned					Py, /c.f./ Remarke	
N 2 ·/		3					ŸĊĢ						App Sam	ples ropri ples s wi	iitial: Store ate co preser hout	d in ic atain	3 37 2002ce	5				
Relinguished) By	frankeller			anization T (Date/Time 0/15/92:4/1,32 Date/Time	. #	elved B	<u> </u>				Organizatio			o∕Time			Turn Ar	24 48 5	me (Circle Choice) Hre. 5 Hre. Days Days	
Relinquiched By	(Signeturo)		Org	anization		Date/Time	Reo	leved E	or Lapo	ratory B	ly (Signat	ture)			Date 1 1 1 16	/Time 13/92 :30					pontracted >	



WELL ADDRESS	WELL ID	DISTANCE FROM SITE (FEET)	WELL TYPE/USE	DWR FILE NAME	DESTROYED
2800 Telegraph Ave., Oakland, CA	SB-1	2,100	monitoring	F37	YES
2800 Telegraph Ave., Oakland, CA	S-1	2,100	monitoring	F38	YES
2800 Telegraph Ave., Oakland, CA	S-4	2,100	monitoring	F39	YES
2800 Telegraph Ave., Oakland, CA	S-5	2,100	monitoring	F3A	YES
2800 Telegraph Ave., Oakland, CA	S-10	2,100	monitoring	F3B	YES
Middle School (Location uncertain)	N/A	NC	Irrigation	51286015	NO RECORD
633 Sycamore St., Oakland, CA	MW-1	2,670	monitoring	51286042	NO RECORD
633 Sycamore St., Oakland, CA	MW-2	2,670	monitoring	51286043	NO RECORD
633 Sycamore St., Oakland, CA	MW-3	2,670	monitoring	51286044	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-2	2,100	monitoring	51286047	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-3	2,100	monitoring	51286048	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-6	2,100	monitoring	51286052	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-7	2,100	monitoring	51286053	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-8	2,100	monitoring	51286055	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-9	2,100	monitoring	51286056	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-10	2,100	monitoring	51286057	NO RECORD
2800 Telegraph Ave., Oakland, CA	S-11	2,100	monitoring	51286058	NO RECORD
2633 Telegraph Ave., Oakland, CA	MW-1	1,400	monitoring	51286059	NO RECORD
2633 Telegraph Ave., Oakland, CA	MW-2	1,400	monitoring	51286060	NO RECORD
2633 Telegraph Ave., Oakland, CA	MW-3	1,400	monitoring	51286061	NO RECORD
2633 Telegraph Ave., Oakland, CA	MW-4	1,400	monitoring	51286062	NO RECORD
2633 Telegraph Ave., Oakland, CA	MW-5	1,400	monitoring	51286063	NO RECORD
294 27th Street, Oakland	SB-1	2,050	boring	51286065	NO RECORD
294 27th Street, Oakland	SB-2	2,050	boring	51286066	NO RECORD
294 27th Street, Oakland	SB-2A	2,050	boring	51286067	NO RECORD
294 27th Street, Oakland	SB-3	2,050	boring	51286068	NO RECORD
Broadway and 27th Street	MW-1	2,000	monitoring	51286072	NO RECORD
Broadway and 27th Street	MW-2	2,000	monitoring	51286073	NO RECORD
Broadway and 27th Street	MW-3	2,000	monitoring	51286074	NO RECORD
294 27th Street, Oakland, CA	MW-1	2,050	monitoring	51286081	NO RECORD
294 27th Street, Oakland, CA	MW-2	2,050	monitoring	51286082	NO RECORD
23rd and Valdez, Oakland, CA	MW-1	1,300	monitoring	51286083	NO RECORD
23rd and Valdez, Oakland, CA	MW-2	1,300	monitoring	51286085	NO RECORD

WELL ADDRESS	WELL ID	DISTANCE FROM SITE (FEET)	WELL TYPE/USE	DWR FILE NAME	DESTROYED
23rd and Valdez, Oakland, CA	MW-2	1,300	monitoring	51286086	NO RECORD
23rd and Valdez, Oakland, CA	SB1	1,300	boring	51286088	NO RECORD
23rd and Valdez, Oakland, CA	SB2	1,300	boring	51286089	NO RECORD
23rd and Valdez, Oakland, CA	SB3	1,300	boring	51286090	NO RECORD
23rd and Valdez, Oakland, CA	SB4/MW-4	1,300	monitoring	51286091	NO RECORD
23rd and Valdez, Oakland, CA	SB-5/MW-5	1,300	monitoring	51286092	NO RECORD
23rd and Valdez, Oakland, CA	SB-6/MW-6	1,300	monitoring	51286093	NO RECORD
23rd and Valdez, Oakland, CA	SB-7/MW-7	1,300	monitoring	51286094	NO RECORD
23rd and Valdez, Oakland, CA	SB-8	1,300	boring	51286095	NO RECORD
23rd and Valdez, Oakland, CA	SB-9	1,300	boring	51286096	NO RECORD
23rd and Valdez, Oakland, CA	SB-10	1,300	boring	51286097	NO RECORD
23rd and Valdez, Oakland, CA	SB-11	1,300	boring	51286098	NO RECORD
23rd and Valdez, Oakland, CA	SB-12	1,300	boring	51286099	NO RECORD
23rd and Valdez, Oakland, CA	MW-8	1,300	monitoring	51286101	NO RECORD
23rd and Valdez, Oakland, CA	MW-9	1,300	monitoring	51286102	NO RECORD
2345 Broadway, Oakland, CA	MW-1	950	monitoring	51286103	NO RECORD
2225 Telegraph Ave., Oakland, CA	MW-6A	110	monitoring	51286105	NO RECORD
2225 Telegraph Ave., Oakland, CA	MW-6B	135	monitoring	51286106	NO RECORD
2225 Telegraph Ave., Oakland, CA	MW-6C	110	monitoring	51286107	YES
2225 Telegraph Ave., Oakland, CA	MW-6D	110	monitoring	51286108	NO RECORD
2225 Telegraph Ave., Oakland, CA	RW-3	190	monitoring	51286110	YES
2225 Telegraph Ave., Oakland, CA	RW-1	120	monitoring	51286111	NO RECORD
2225 Telegraph Ave., Oakland, CA	MW-6G	220	monitoring	51286113	NO RECORD
2225 Telegraph Ave., Oakland, CA	MW-6H	110	monitoring	51286114	NO RECORD
2225 Telegraph Ave., Oakland, CA	MW-6I	205	monitoring	51286115	NO RECORD
2225 Telegraph Ave., Oakland, CA	RW-3A	190	remediation	51286116	NO RECORD
2103 San Pablo Ave, Oakland, CA	ES-1	1,360	monitoring	51286121	NO RECORD
2103 San Pablo Ave, Oakland, CA	ES-2	1,360	monitoring	51286122	NO RECORD
2103 San Pablo Ave, Oakland, CA	ES-3	1,360	monitoring	51286123	NO RECORD
2103 San Pablo Ave, Oakland, CA	ES-4	1,360	monitoring	51286124	NO RECORD
2103 San Pablo Ave, Oakland, CA	ES-5	1,360	monitoring	51286125	NO RECORD
San Pablo and 19th, Oakland, CA	SB1	1,400	boring	51286154	NO RECORD
San Pablo and 19th, Oakland, CA	SB2	1,400	boring	51286155	NO RECORD

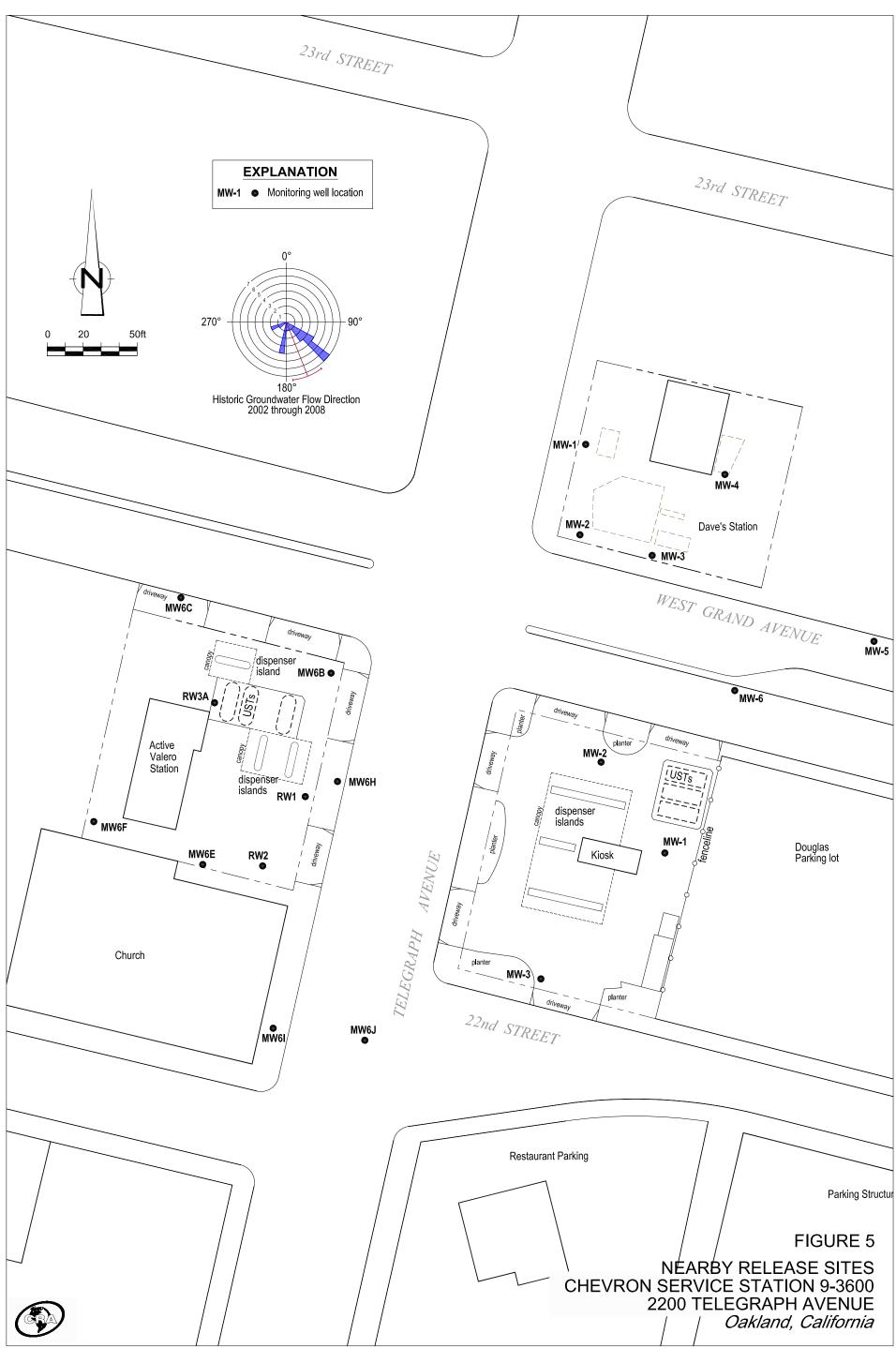
WELL ADDRESS	WELL ID	DISTANCE FROM SITE (FEET)	WELL TYPE/USE	DWR FILE NAME	DESTROYED
San Pablo and 19th, Oakland, CA	SB3	1,400	boring	51286156	NO RECORD
San Pablo and 19th, Oakland, CA	SB4	1,400	boring	51286157	NO RECORD
San Pablo and 19th, Oakland, CA	SB5	1,400	boring	51286158	NO RECORD
San Pablo and 19th, Oakland, CA	SB6	1,400	boring	51286159	NO RECORD
San Pablo and 19th, Oakland, CA	SB6	1,400	boring	51286158	NO RECORD
18th and Jefferson, Oakland, CA	MW-1	1,600	monitoring	51286161	NO RECORD
18th and Jefferson, Oakland, CA	MW-2	1,600	monitoring	51286162	NO RECORD
18th and Jefferson, Oakland, CA	MW-3	1,600	monitoring	51286163	NO RECORD
18th and Jefferson, Oakland, CA	MW-1A	1,600	monitoring	51286166	NO RECORD
18th and Jefferson, Oakland, CA	MW-4	1,600	monitoring	51286167	NO RECORD
18th and Jefferson, Oakland, CA	#1	1,600	test	51286168	NO RECORD
537 18th Street, Oakland, CA	MW-2	1,550	monitoring	51286169	NO RECORD
570 18th Street, Oakland, CA	MW-7	1,700	monitoring	51286170	NO RECORD
San Pablo and 19th, Oakland, CA	MW-11	1,400	test	51286171	NO RECORD
611 20th Street, Oakland, CA	MW-12	1,140	test	51286172	NO RECORD
612 Williams Street, Oakland, CA	MW-13	1,140	test	51286173	NO RECORD
585 Williams Street, Oakland, CA	MW-14	1,140	test	51286174	NO RECORD
588-596 Williams Street, Oakland, CA	MW-15	1,140	test	51286175	NO RECORD
536 20th Street, Oakland, CA	MW-16	1,140	test	51286176	NO RECORD
1911 Telegraph Ave, Oakland, CA	MW-1	1,100	test	51286177	NO RECORD
17th Street b/n Broadway and Telegraph, Oakland, CA	MW-5	1,700	test	51286184	NO RECORD
577 19th Street, Oakland, CA	MW-6	1,380	test	51286185	NO RECORD
19th Street b/n Broadway and Telegraph, Oakland, CA	MW-8	1,350	test	51286186	NO RECORD
552 19th Street, Oakland, CA	MW-1	1,290	test	51286187	NO RECORD
20th Street b/n Broadway and Telegraph, Oakland, CA	MW-9	800	test	51286188	NO RECORD
513 18th Street, Oakland, CA	MW-4	1,500	test	51286189	NO RECORD
300 Lakeside Drive, Oakland, CA	MW-1	1,700	monitoring	51286190	NO RECORD
2100 Harrison Street, Oakland, CA	MW-1	1,800	monitoring	51286191	NO RECORD
2100 Harrison Street, Oakland, CA	MW-2	1,800	monitoring	51286192	NO RECORD
300 Lakeside Drive, Oakland	MW-2	1,700	monitoring	51286194	NO RECORD
21st and Harrison Street, Oakland	MW-3	1,800	monitoring	51286195	NO RECORD
1975 Webster Street, Oakland, CA	MW-1/SB7	1,400	monitoring	51286198	NO RECORD
1975 Webster Street, Oakland, CA	MW-2/SB8	1,400	monitoring	51286199	NO RECORD

WELL ADDRESS	WELL ID	DISTANCE FROM SITE (FEET)	WELL TYPE/USE	DWR FILE NAME	DESTROYED
1975 Webster Street, Oakland, CA	MW-3/SB9	1,400	monitoring	51286200	NO RECORD
1975 Webster Street, Oakland, CA	MW-4/SB10	1,400	monitoring	51286201	NO RECORD
1975 Webster Street, Oakland, CA	SB1	1,400	monitoring	51286202	NO RECORD
1975 Webster Street, Oakland, CA	SB2	1,400	monitoring	51286203	NO RECORD
1975 Webster Street, Oakland, CA	SB3	1,400	monitoring	51286204	NO RECORD
1975 Webster Street, Oakland, CA	SB4	1,400	monitoring	51286205	NO RECORD
1975 Webster Street, Oakland, CA	SB5	1,400	monitoring	51286206	NO RECORD
1975 Webster Street, Oakland, CA	SB6	1,400	monitoring	51286207	NO RECORD
One Kaiser Plaza, Oakland, CA	MW-1	1,500	monitoring	51286208	NO RECORD
One Kaiser Plaza, Oakland, CA	MW-2	1,500	monitoring	51286209	NO RECORD
One Kaiser Plaza, Oakland, CA	MW-3	1,500	monitoring	51286210	NO RECORD
One Kaiser Plaza, Oakland, CA	B1	1,500	boring	51286211	NO RECORD
545 17th Street, Oakland, CA	MW-1	1,800	test	51315009	NO RECORD
509 17th Street, Oakland, CA	MW-3	1,750	test	51315010	NO RECORD
No Address	E2	NC	boring	51315011	NO RECORD
No Address	E3	NC	boring	51315012	NO RECORD
No Address	A2	NC	boring	51315013	NO RECORD
No Address	A3	NC	boring	51315014	NO RECORD
No Address	A5	NC	boring	51315015	NO RECORD
No Address	A6	NC	boring	51315016	NO RECORD
No Address	B1	NC	boring	51315017	NO RECORD
No Address	B3	NC	boring	51315018	NO RECORD
No Address	B4	NC	boring	51315019	NO RECORD
No Address	B6	NC	boring	51315020	NO RECORD
No Address	C2	NC	boring	51315022	NO RECORD
No Address	C5	NC	boring	51315023	NO RECORD
No Address	C6	NC	boring	51315024	NO RECORD
No Address	D1	NC	boring	51315025	NO RECORD
No Address	D2	NC	boring	51315026	NO RECORD
No Address	D3	NC	boring	51315027	NO RECORD
No Address	D5	NC	boring	51315028	NO RECORD
No Address	D7	NC	boring	51315029	NO RECORD
No Address	E4	NC	boring	51315030	NO RECORD

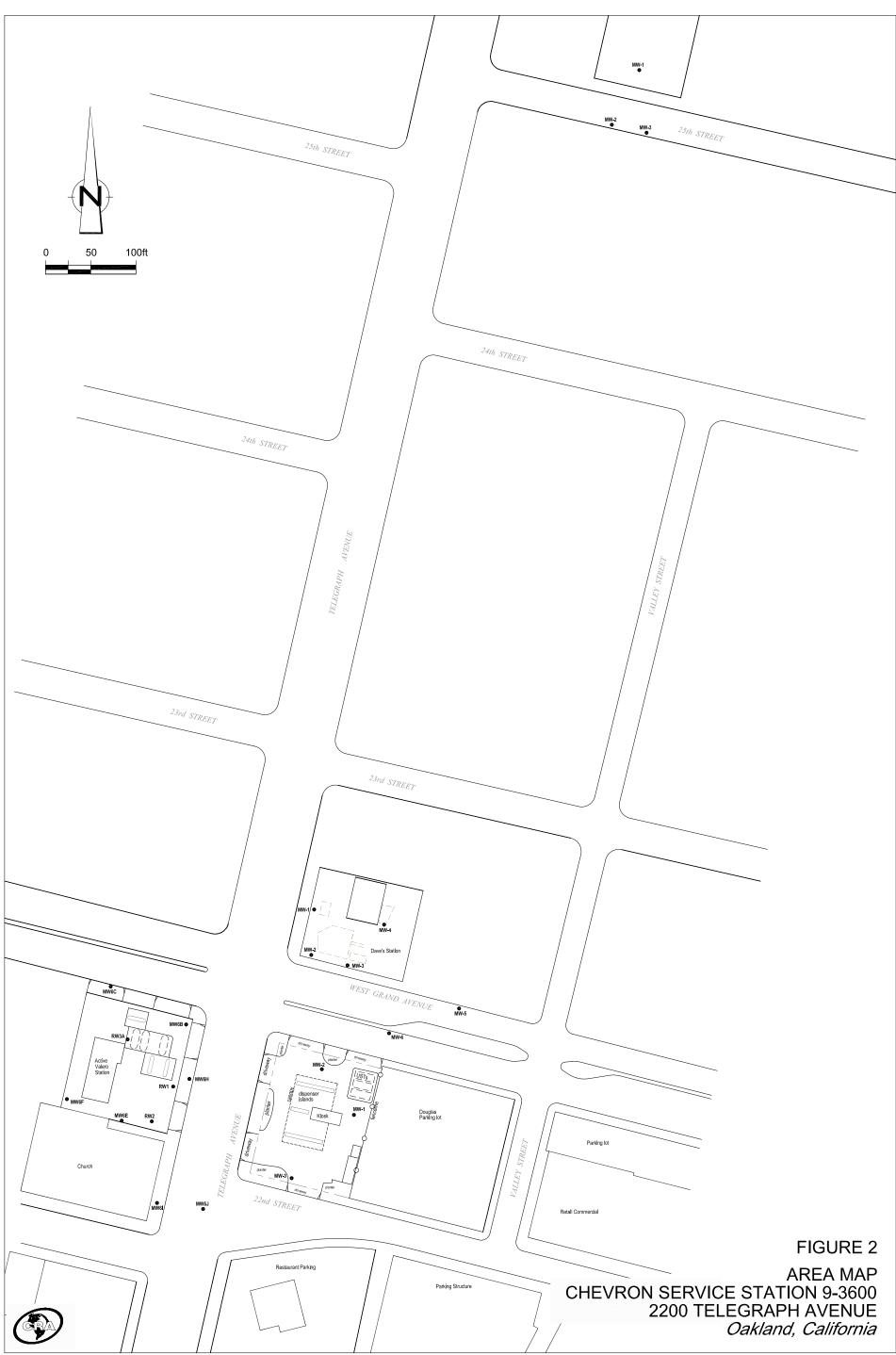
		DISTANCE			
		FROM SITE	WELL	DWR FILE	
WELL ADDRESS	WELL ID	(FEET)	TYPE/USE	NAME	DESTROYED
No Address	E4.4	NC	boring	51315031	NO RECORD
No Address	E4.7	NC	boring	51315032	NO RECORD
No Address	E5.3	NC	boring	51315033	NO RECORD
No Address	E6	NC	boring	51315034	NO RECORD
Five City Center, Oakland, CA	MW-1,2,3	2,700	monitoring	51315036	NO RECORD
Five City Center, Oakland, CA	B4	2,700	boring	51315037	NO RECORD
Five City Center, Oakland, CA	B1	2,700	boring	51315040	NO RECORD
Five City Center, Oakland, CA	B2	2,700	boring	51315041	NO RECORD
Five City Center, Oakland, CA	B3	2,700	boring	51315042	NO RECORD
17th and Broadway Street, Oakland, CA	B3	1,700	boring	51343201	NO RECORD

Notes:

Compiled from data provided by California Department of Water Resources Department of Water Resources data is confidential NC = Not calculated



I:\CHEVRON\3119--\311965 9-3600 OAKLAND\311965-FIGURES\311965_EM003_AREA.DWG



I:\CHEVRON\3119--\311965 9-3600 OAKLAND\311965-FIGURES\311965_EM003_AREA.DWG