



August 29, 1994

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

Mr. Scott Seery Alameda County Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Chevron Service Station #9-6991

2920 Castro Valley Boulevard, Castro Valley, CA

Dear Mr. Seery:

Enclosed is the Groundwater Monitoring and Sampling Activities report dated July 15, 1994, prepared by our consultant Groundwater Technology, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline, total petroleum hydrocarbons as diesel, and BTEX. Concentrations of these constituents were below method detection limits in all wells with the exception of MW-1. Depth to ground water was measured at 8.9 feet to 10.9 feet below grade and the direction of flow is to the west-southwest.

Quarterly monitoring of well MW-6 has been discontinued as discussed in Chevron's letter of May 13, 1994. We will continue quarterly monitoring and sampling activities. We have instructed our consultant to review all historical site data and determine the applicability of Non Attainment Areas to this site.

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

Mark A. Miller

Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Kevin Graves, RWQCB - Bay Area

Mr. T. Vukelich

File: 9-6991 QM7





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

FAX: (415) 685-9148

July 15, 1994

Project No. 020104092

Mr. Mark Miller Chevron U.S.A. Products Company 2410 Camino Ramon San Ramon, CA 94583-0804

SUBJECT:

Groundwater Monitoring and Sampling Activities

Chevron Service Station No. 9-6991

2920 Castro Valley Boulevard, Castro Valley, California

Dear Mr. Miller:

Groundwater Technology, Inc. presents the quarterly groundwater monitoring and sampling data collected on May 31, 1994. Five of the six groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. Monitoring well MW-6 was paved over and was not monitored or sampled. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map and a summary of groundwater monitoring data are presented in Attachments 1 and 2, respectively. After the DTW was measured, each monitoring well, except MW-6 was purged and sampled. Groundwater monitoring and sample collection protocol and field data sheets are presented in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes, total petroleum hydrocarbons-as-gasoline and total petroleum hydrocarbons-as-diesel. Results of the analyses are summarized in Attachment 2. Laboratory report and chain-of-custody record are presented in Attachment 4. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments, please contact our Concord office at (510) 671-2387.

Sincerely,

Groundwater Technology, Inc.

Written/Submitted by

Kenneth P. Johnson Project Manager

For:

Wendell W. Lattz

Vice President, General Manager

West Region

PR

Attachment 1
Attachment 2

Figure Table

Attachment 3

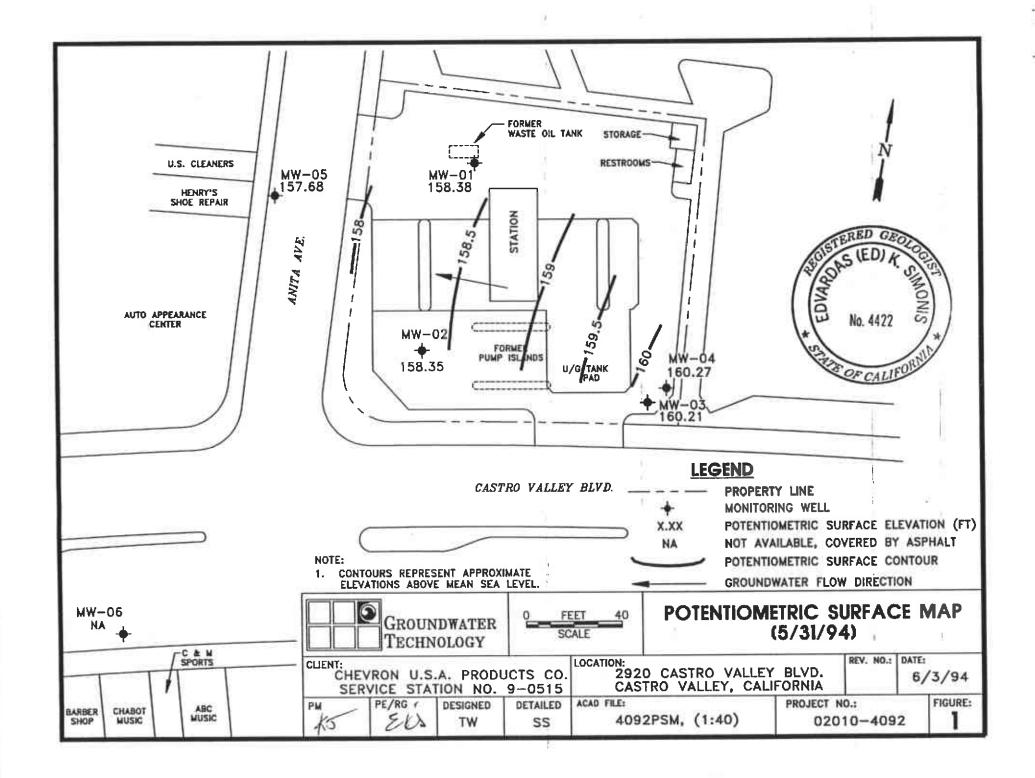
Protocol and Field Data Sheets

Laboratory Report

Attachment 4

4092qmsr 294

Figure



Table

Well ID/ Elev.	Date	TOG	TPH-D	TPH-G	Benzene	Toluene	Ethy⊦ benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
MW-1	10/08/91	<5000		230	45	<0.5	0.9	9.1	11.10	0.00	158.20
IAI AA- I	11/04/91			340	120	<0.5	<0.5	6.1	11.03	0.00	158.27
169,30	12/04/91	<5000	170	<50	3.9	<0.5	<0,5	<0.5	11.05	0.00	158.25
109,50	06/05/92		<50	100	26	0,6	0.5	1.0	11.04	0.00	158.26
	10/27/92		54	<50	11	<0.5	<0.5	<0.5	11,10	0.00	158.20
	12/30/92		170	<50	24	<0.5	<0.5	<0.5			
	01/27/93								10.63	0.00	158.67
	03/05/93		<50	<50	<0.5	<0.5	<0.5	<0.5			ļ l
	03/17/93								10.71	0.00	158.59
	06/18/93		<50	<50	0.6	<0.5	<0.5	<1.5	11.01	0.00	158.29
	09/28/93		<50	<50	0.8	<0.5	<0.5	<1.5	11.95	0.00	157.35
	12/30/93		<50	<50	8.5	< 0.5	<0.5	<0.5	10,96	0.00	158.34
	04/07/94		<10	<50	<0.5	<0.5	<0.5	<0.5	10.81	0.00	158.49
	05/31/94		<50	<50	1.0	<0.5	<0.5	<0.5	10.92	0.00	158.38
MW-2	10/08/91	***		110	5.1	1.1	0.8	26	11.95	0.00	157.20
IVI VV-Z	11/19/91			120	11	1.1	<0.5	17	11.75	0.00	157.40
169.15	12/04/91	700	130	440	30	2.5	<0.5	52	11.80	0.00	157.35
109.13	06/05/92		130*	80	13	<0,5	<0.5	1.0	11.80	0.00	157.35
	10/27/92		110	54	13	<0.5	<0.5	<0.5	12.00	0.00	157.15
	12/30/92		92*	180	30	<0,5	<0.5	1.0			
	01/27/93								10.91	0.00	158.24
	03/05/93		<50	<50	<0.5	<0.5	<0.5	<0.5			
	03/17/93								10.89	0.00	158.26
	06/18/93		<50	<50	1.4	<0.5	<0.5	<1.5	11.74	0.00	157.41
	09/28/93		<50	<50	0.6	<0.5	<0.5	<1.5	11.18	0.00	157.97
	12/30/93		<50	<50	0.9	<0.5	<0.5	<0.5	21.00	0.00	158.34
	04/07/94		<10	<50	<0.5	<0.5	<0.5	<0.5	10.75	0.00	158.40
	05/31/94		<50	<50	<0.5	<0.5	<0.5	<0.5	10.80	0.00	158.35

GROUNDWATER
TECHNOLOGY ®

Well ID/ Elev.	Date	TOG	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
MW-з	10/08/91			81	1.9	0.7	0.8	2.4	8,27	0.00	160.84
10144-0	11/04/91		·	60	<0.5	<0.5	<0.5	<0.5	10.85	0.00	158.26
169.11	12/04/91		<50	<50	<0.5	<0.5	<0.5	<0.5	11.05	0.00	158.06
105.11	06/05/92		170*	<50	<0.5	<0.5	<0.5	<0.5	11.15	0.00	157.96
	10/27/92		120	<50	<0.5	<0.5	<0.5	<0.5	11.60	0.00	157.51
ļ	12/30/92		170*	<50	<0.5	<0.5	<0.5	<0.5			
	01/27/93								9.11	0.00	160,00
	03/05/93										
	03/17/93								9.95	0.00	159.16
	06/18/93		<50	<50	<0.5	<0.5	<0.5	<1.5	10.89	0.00	158.22
	09/28/93		<50	<50	<0.5	<0.5	<0.5	<1.5	9.62	0.00	159.49
	12/30/93		<50	<50	<0.5	<0.5	<0.5	<0.5	9.31	0.00	159.80
	04/07/94		<10	<50	<0.5	<0.5	<0.5	<0.5	8.81	0.00	160.30
	05/31/94		<50	<50	<0.5	<0.5	<0.5	<0.5	8.90	0.00	160.21
MW-4	10/27/92		<50	<50	<0.5	0.6	0.5	4.3	11,39	0.00	157.79
169.18	12/30/92		<50	<50	<0.5	<0.5	<0.5	<0.5	10.13	0.00	159.05
,00.10	01/27/93]	<u></u>			9.09	0.00	160.09
	03/05/93		<50	<50	<0.5	<0.5	<0.5	<0.5			
	03/17/93								9.90	0.00	159.28
	06/18/93		<50	<50	<0.5	<0.5	<0.5	<1.5	10.68	0.00	158.50
ļ	09/28/93		<50	<50	<0.5	<0.5	<0.5	<1.5	9.36	0.00	159.82
1	12/30/93		<50	<50	<0.5	<0.5	<0.5	<0.5	9.27	0.00	159.91
	04/07/94		<10	<50	<0.5	<0.5	<0.5	<0.5	8.81	0.00	160,37
	05/31/94		<50	<50	<0.5	<0.5	<0.5	<0.5	8.91	0.00	160.27

GROUNDWATER
TECHNOLOGY

Well ID/ Elev.	Date	TOG	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)	
101/ 5	10/27/92		<50	74	<0,5	<0.5	0.6	7.1	9.95	0.00	157.46	
MW-5	· · · · · · · · · · · · · · · · · · ·	·	<50	<50	<0.5	<0.5	<0.5	<0.5	9,20	0.00	158.21	
167.41	12/30/92								9.61	0.00	157.80	
	01/27/93			.50	<0.5	<0.5	<0.5	<0.5	3.51		107.00	
	03/05/93		<50	<50	1			l		0.00	157.90	
	03/17/93								9.51			
	06/18/93		<50	<50	<0.5	<0.5	<0.5	<0.5	9.85	0.00	157.56	
	09/28/93		<50	<50	<0,5	<0.5	<0.5	<1.5	9.86	0.00	157.55	
	12/30/93		<50	<50	<0.5	<0.5	<0.5	<0.5	10.33	0.00	157.08	
	04/07/94		<10	<50	<0.5	<0.5	<0.5	<0.5	9.72	0.00	157.69	
	05/31/94		<50	<50	<0.5	<0.5	<0.5	<0.5	9.73	0.00	157.68	
MW-6	10/27/92		<50	600	22	22	24	130	12.54	0.00	153.92	
	12/30/92		470*	1,700	170	16	46	160	10.20	0.00	156.26	
166.46	. –		470		'7				10.02	0.00	156,44	
	01/27/93		150*	480	76	0.9	3.1	7.1				
	03/05/93		150			0.9			10.67	0.00	155.79	
	03/17/93							18	11.83	0.00	154.63	
	06/18/93		51	240	37	3.4	2.9	1				
	09/28/93		120	150	11	1.2	1.3	4.3	11.56	0.00	154.90	
'	12/30/93		290*	680	77	5.1	5,5	13	11.65	0.00	154.81	
	04/07/94		<10	190	24	2.9	1.9	8.0	11.12	0.00	155,34	
Paved Over	05/31/94										<u> </u>	



Well ID/ Elev.	Date	TOG	TPH-D	TPH-G Benzene T		Toluene	Ethyl- benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
TBLB	10/08/91			<50	<0.5	<0.5	<0.5	<0.5			
IDLD	11/04/91			<50	<0.5	<0.5	<0,5	<0,5			
	12/04/91		<50	<50	<0.5	<0.5	<0,5	<0.5			
	06/05/92			<50	<0.5	<0.5	<0,5	<0.5			
	12/30/92			<50	<0.5	<0,5	<0,5	<0.5			
	01/27/93		<50								
	03/05/93			<50	<0.5	<0.5	<0.5	<0.5			
	03/17/93										
	06/18/93			<50	<0.5	<0.5	<0.5	<1.5			
	09/28/93			<50	<0.5	<0.5	<0.5	<0.5			
	12/30/93			<50	<0.5	<0,5	<0.5	<0.5			
	04/07/94			<50	<0.5	<0.5	<0.5	<0.5			
	05/31/94			<50	<0.5	<0.5	<0.5	<0.5			<u> </u>
RINSATE	12/30/93			<50	<0.5	<0.5	<0.5	<0.5			

DTW = Depth to water

SPT = Separate-phase hydrocarbons thickness

WTE = Water table elevation in feet above mean sea level

TOG = Total oil and grease

TPH-G = Total petroleum hydrocarbons-as-gasoline
TPH-D = Total petroleum hydrocarbons-as-diesel fuel
Not applicable/not sampled/not measured

* = The pattern of peaks observed are not typical of diesel.

Results in parts per billion



Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets

GROUNDWATER TECHNOLOGY GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

Groundwater Monitoring

Groundwater monitoring is accomplished using a INTERFACE PROBE" Well Monitoring System. The INTERFACE PROBE" Well Monitoring System is a hand held, battery operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE" Well Monitoring System consists of a dual-sensing probe which utilizes an optical liquid sensor and electrical conductivity to distinguish between water and petroleum products.

Monitoring is accomplished by measuring from the surveyed top of well casing or grade to groundwater and separate-phase hydrocarbons if present. The static water elevation is then calculated for each well and a potentiometric surface map is constructed. If separate-phase hydrocarbons are detected the water elevation is adjusted by the following calculation:

(Product thickness) x (0.8) + (Water elevation) = Corrected water elevation

Groundwater monitoring wells are monitored in order of wells with lowest concentrations of volatile organic compounds to wells with the highest concentrations, based upon historical concentrations. If separate-phase hydrocarbons are encountered in a well, the product is visually inspected to confirm and note color, amount, and viscosity. Monitoring equipment is washed with laboratory grade detergent and rinsed with distilled or deionized water before monitoring each well.

Groundwater Sampling

Before groundwater samples are collected, sufficient water is purged from each well to ensure representative formation water is entering the well. Wells are purged and sampled in the same order as monitoring, from wells with the lowest concentrations of volatile organic compounds to wells with the highest concentrations. Wells are purged using either a polyvinyl chloride (PVC) bailer fitted with a check valve or with a stainless steel submersible Grundfos pump. The purge equipment is decontaminated before use in each well by washing with laboratory grade detergent and tripled rinsing with deionized or distilled water. A minimum of 3 well-casing volumes of water are removed from each well while pH, electrical conductivity, and temperature are recorded to verify that "fresh" formation water is being sampled and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before 3 casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylene, and total petroleum hydrocarbons (TPH)-as-gasoline analyses are collected in 40-milliliter vials fitted with Teflon® septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

The chain-of-custody record documents who has possession of the samples until the analyses is performed. Other pertinent information is also noted for the laboratory use on the chain-of-custody record.

Trip blanks (TBLBs) are used for each project as a quality assurance/quality control measure. The TBLBs are prepared by the laboratory and are placed in the insulated cooler and accompany the field samples throughout the sampling event.

Project Name: Site Address: Project Number Well ID: Well Diameter:	2920 Castro V	alley Blvd, 4092.0610	DTW Initia Rech	Page of Project Manager: Tim Watchers Project Manager: Tim Watchers DTW Measurements: Initial: 10.92 Calc Well Volume: 44 gal Recharge: Well Volume: 45 gal									
Peristaltic Hand Bailed YSI: Other: Other: Submersible Other Omega:													
Time	Temp Purge Title												
1021	<i>∂</i> 0.3	1.55	7.03	.5	cloude	Lark gray							
1023	19-9	1.44	7.02	1.1	Clear	clem							
1025	19.9	1:42	7.02	1.5		C ·							

-	<u>Chevron - Cas</u> <u>2920 Castro V</u>		Page 2 of 6 Project Manager: Tim Watchers													
Well ID: Well Diameter:	MW-3		Initia	/ Measurement al: <u>10 · Sr</u> harge:	s: Calc Well Well Volur	Volume: <u>'5</u> gal ne: <u>1,5</u> gal										
Purge Method Pump Depth 80 ft. Instruments Used Peristaltic Hand Bailed YSI: Other: Bear Drive Air Lift Hydac: Omega:																
Time	Time Temp Conductivity pH Purge Volume Gallons Turbidity Comments															
1035	20.1	:72	7.04	.5	Clea	clear										
1036	19.9	1.08	724	1.	Cler	Clea										
1037	19.9	1.10	7.04	1.5	Cler	clear										

Project Name: Chevron - Castro Valley Date: 5/31/94												
Site Address:	2920 Castro V	aliey Blvd.			ge <u> 3 </u>	-						
Project Number	r: <u>02010</u>	4092,0610	***	Pro	oject Manager:	Tim Watchers						
Well ID:	MW-	3		V Measurement al: <u>8-9 o</u> harge:	ts: Calc Well Well Volur	Volume: 5 gal me: 1.5 gal						
Purge Method Pump Depth 20 ft. Instruments Used Peristaltic Hand Bailed YSI: Other: Gear Drive Air Lift Hydac: Omega: Submersible Other Purge												
Time	Temp C	Conductivity	рН	Purge Volume Gallons	Comments							
1050	198	.86	7.06	,5	Clar	Clear						
1051	20-2	.85	57.07	1.								
1052	20.2	-87	7.09	1.5		<i>J</i> -						
			-									
			* 4.									

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Project Name: Chevron - Castro Valley Date:____ Page_ Site Address: 2920 Castro Valley Blvd. Project Manager: ____Tim Watchers _____ Project Number: 020104092,0610 MW-4 DTW Measurements: Well ID: Calc Well Volume:___ 8.9t_ Initial: Well Volume: ___ Well Diameter: _____ Recharge:____ Pump Depth 27 ft.

Hand Bailed V Instruments Used Purge Method YSI: Other:_____ Peristaltic Hydac: ____ Air Lift_____ Gear Drive___ Omega:___ Submersible____ Other__ Purge Temp Comments Turbidity Volume pН C Conductivity Time Gallons Clarky White ·te9 7.12 2 ... 1112 1113 3 .76 1114 9.6 9.7 1115

,

Project Name: Site Address: Project Number	2920 Castro V		Pag	Page 5 of (Project Manager:								
Well ID: Well Diameter:	11w-		DTW Initia Rech	/ Measurement al: <u> </u>	ks: Calc Well Well Volur	Volume: 2 gal ne: 6 gal						
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lift	Depth 22 Bailed		Hydac:	s Userd							
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments						
1124	20.7	-76	7.14	2	Cloudy	brown						
[125	20,2	.79	7.15	J	()	L ,						
1126	19.9	- 81	7.16	4	<i>.</i>							
(129	19.8	86	7-16	5	۱۱	c						
1128	19.8	, 88	7.17	6	((Ct.						
				.								

∠roject Name:	Chevron - Cas	stro Valley		Da	te: <u>5/3</u> /	1/14
Site Address: Project Number		/alley Blvd. 04092.0610		Pa Pm	-	Tim Watchers
Well ID:	Mw 6	<u>.</u>		V Measuremen	ts:	Volume:gal me:gal
Peristaltic Gear Drive	Hand Air Lif	Depth Bailedt		Instrument: YSI: Hydac: Omega:		
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments
			id	(10)		Anol
		. /			:	.)
	We	ll Pa	wed	0	e	
			-			
						i
					· · · · · · · · · · · · · · · · · · ·	

Laboratory Report



825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

GROUNDWATER TECHNOLOGY, INC. Attn: TIM WATCHERS

Concentration:

Diesel:

Project 9-6991 Reported 06/08/94

	<u>.</u>	<u> </u>			<u> </u>	
		TOTAL PETR	OLEUM HYDE	ROCARBONS		
Lab #	Sample	Identificat	ion	Sampled	Analyzed	d Matrix
30547- 1 MW-1 30547- 2 MW-2 30547- 3 MW-3 30547- 4 MW-4 30547- 5 MW-5 30547- 6 TB-LB				05/31/94 05/31/94 05/31/94 05/31/94 05/31/94 05/31/94	06/03/94 06/03/94 06/03/94 06/04/94 06/04/94	Water Water Water Water Water
		० इ दिता ग	S OF ANALY	YSTS		
Laboratory	Number:			30547- 3 3	0547- 4 30	0547- 5
Gasoline: Benzene: Toluene: Ethyl Benze Total Xyler Diesel:		ND<50 1.0 ND<0.5 ND<0.5 ND<0.5 ND<50	ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<50	ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<50	ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<50	ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<50
Concentrati	on:	ug/L	ug/L	ug/L	ug/L	ug/L
Laboratory	Number:	30547- 6				
Gasoline: Benzene: Toluene: Ethyl Benze Total Xyler		ND<50 ND<0.5 ND<0.5 ND<0.5 ND<0.5				

Page 1 of 2

NA

ug/L

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 30547

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb)

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	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	99/100	18	70-130
Benzene:	95/95	0%	70-130
Toluene:	93/95	2%	70-130
Ethyl Benzene:	80/81	1%	70-130
Total Xylenes:	95/98	3%	70-130
Diesel:	86/90	5%	75-133
Dieser:	00/00	• •	'

Senior Chemist

Certified Laboratories

Fax co	py of	Lab	Rep	ort.	and	COC to	Che	vror	ı Co	ntac) ct: [J ݀ J N¢	es o	30.	547	C	hai	n-c	of-(Cus	tody:	-Recor
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Sample Number	Lob Semple Humber	Number of Containers	Matrix S = Sol A = Air W = Water C = Charson	Type C = Grab C = Composite D = Discrete	Jkm•	Sample Preservation	load (Yes or No)	BIEX + TPH CAS (8020 + 8015)	TPH Diesed (8015)	Oil and Gream (5520)	Purpeable Halocarbons (8010)	Purpeoble Aromatics (8020)	T	sonice	CACAPLZANI CACAPLZANI (ICAP or AA)	rm•d					7B- LI	OT BILL B SAMPLES
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