ALCO
HAZMAT

94 APR -8 PM 1:41

Chevron

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department
Phone 510 842 9500

April 7, 1994

Mr. Scott Seery
Alameda County Environmental Health Department
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Chevron Service Station No. 9-4930
3369 Castro Valley Blvd., Castro Valley, CA 94546

Dear Mr. Seery :

Enclosed is the March 25, 1994 quarterly monitoring and sampling report from Groundwater Technology, Inc. (GTI). Please refer to the enclosed report for the latest groundwater information.

GTI will continue to monitor and sample the site on a quarterly basis. In addition, GTI will monitor the water elevations on a monthly basis as well as analyze the water sample for HVOCs. GTI will measure the water level this month as well as analyze the water for HVOCs.

If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan
Engineer

LKAN/MacFile 9-4930R7

Enclosure

cc: Mr. Richard Hiett
RWQCB-S.F.Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Anna Counelis & Tula Gallanes
109 Casa Vieja Place
Orinda, CA 94563

Ms. Bette Owen
Chevron U.S.A. Products Co.

GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387
FAX: (415) 685-9148

March 25, 1994

Project No. 020105001

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

SUBJECT: *Groundwater Monitoring and Sampling Activities*
Chevron Service Station No. 9-4930
3369 Castro Valley Blvd., Castro Valley, California

Dear Mr. Kan:

Groundwater Technology, Inc. presents the quarterly groundwater monitoring and sampling data collected on February 25, 1994. Four groundwater monitoring wells at this site were gauged to measure depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. 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, the monitoring wells were purged and sampled. Field data sheets are presented in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes, and for total petroleum hydrocarbons-as-gasoline. Results of the chemical analyses are summarized in Table 1. The laboratory report and chain-of-custody record are included in Attachment 4. Monitoring-well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

HVOC

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

Tim Watchers
Project Manager

PR KJ

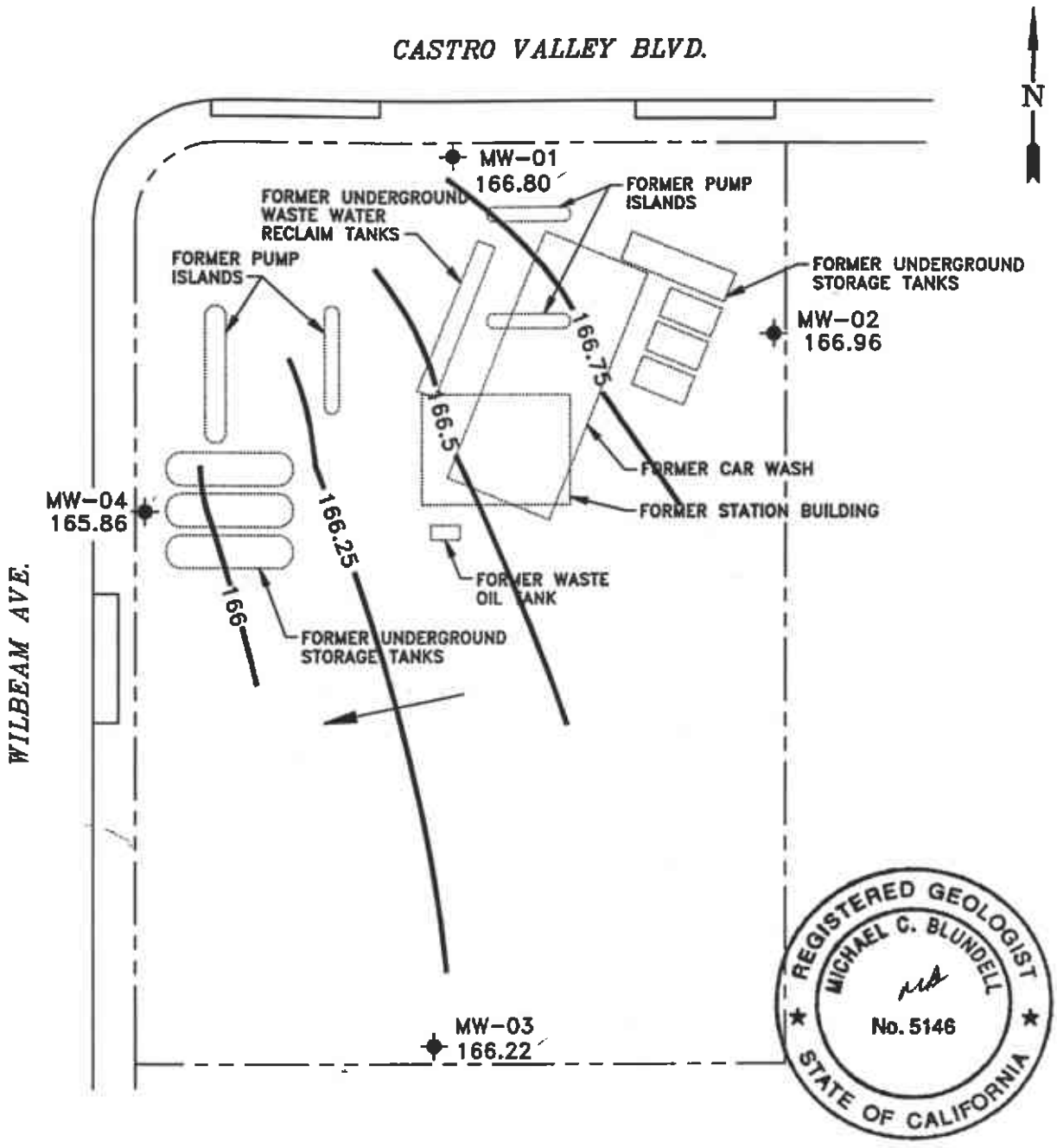
For:
Wendell W. Lattz
Vice President, General Manager
West Region

Attachment 1 Figure
Attachment 2 Table
Attachment 3 Field Data Sheets
Attachment 4 Laboratory Report

5001QMSR.194

ATTACHMENT 1

Figure



LEGEND

- PROPERTY LINE
- MONITORING WELL
- X.XX — POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:

1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

GROUNDWATER TECHNOLOGY

0 FEET 40
SCALE

POTENTIOMETRIC SURFACE MAP (2/25/94)

CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION NO. 9-1723	FILE: 5001PSM, (1:40)	PROJECT NO.: 02010-5001		PM	PE/RG
LOCATION: 3369 CASTRO VALLEY BLVD. CASTRO VALLEY, CALIFORNIA	REV. 1				FIGURE: 1
	DES. TW	DET. SS	DATE: 3/21/94		

ATTACHMENT 2

Table

TABLE 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA
Chevron Service Station No. 9-4930
3369 Castro Valley Blvd., Castro Valley, California

Well ID/ Elev	Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	DTW (ft)	SPT (ft)	WTE (ft)
MW-1	10/29/93	1,000	11	17	32	110	6.75	0.00	166.15
172.90	02/25/94	250	6	1	5	3	6.10	0.00	166.80
MW-2	10/29/93	5,600	140	3.2	17	330	7.86	0.00	166.05
173.91	02/25/94	820	41	<0.5	17	5	6.95	0.00	166.96
MW-3	10/29/94	110*	<0.5	<0.5	<0.5	<0.5	7.64	0.00	164.96
172.60	02/25/94	<50	<0.5	<0.5	<0.5	<0.5	6.38	0.00	166.22
MW-4	10/29/93	640	6.7	3.3	0.6	6.7	5.50	0.00	165.18
170.68	02/25/94	450	20	0.8	12	6	4.82	0.00	165.86
Rinsate	02/25/94	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
TBLB	02/25/94	<50	<0.5	<0.5	<0.5	<0.5	---	---	---

TPH-G = Total petroleum hydrocarbons-as-gasoline
DTW = Depth to water
SPT = Separate-phase hydrocarbon thickness
WTE = Water-table elevation
* = Compound does not match typical gasoline pattern
C-Form = Chloroform

Concentrations are in parts per billion.

Data from 10/29/93 is from RESNA.

GROUNDWATER TECHNOLOGY

ATTACHMENT 3

Field Data Sheets

Project Name: Chevron - Castro Valley

Site Address: 3369 Castro Valley Blvd.

Project Number: 020105001.0610

Date: 2/25/94

Page 1 of 4

Project Manager: Tim Watchers

Well ID: MW-1

Well Diameter: 2

DTW Measurements:
Initial: _____
Recharge: _____

Calc Well Volume: 6 gal
Well Volume: _____ gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____
Other: _____

Time	Temp X C / F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:00	17.6	.85	6.32	2		
10:00	17.6	.87	6.46	3		
10:01	18.0	.89	6.52	4		
10:02	18.5	.87	6.57	6		

Project Name: Chevron - Castro Valley

Site Address: 3369 Castro Valley Blvd.

Project Number: 020105001.0610

Date: 2/25/94

Page 2 of 4

Project Manager: Tim Watchers

Well ID: MW-2

Well Diameter: 2

DTW Measurements:
Initial: _____
Recharge: _____

Calc Well Volume: 6 gal
Well Volume: _____ gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____

Other: _____

Time	Temp X C / F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:15	18.4	1.04	6.66	2		
10:15	18.0	1.04	6.68	3		
10:16	17.5	1.08	6.69	4		
10:17	17.6	1.06	6.70	6		

Project Name: Chevron - Castro Valley

Site Address: 3369 Castro Valley Blvd.

Project Number: 020105001.0610

Date: 2/25/94

Page 3 of 4

Project Manager: Tim Watchers

Well ID: MW-3

Well Diameter: 2

DTW Measurements:
Initial: _____ Recharge: _____

Calc Well Volume: 7 gal
Well Volume: _____ gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____
Other: _____

Time	Temp X C / F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:30	18.4	1.00	6.69	2		
10:31	17.5	1.03	6.71	3		
10:32	17.4	1.05	6.74	5		
10:33	17.4	1.06	6.75	7		

Project Name: Chevron - Castro Valley

Site Address: 3369 Castro Valley Blvd.

Project Number: 020105001.0610

Date: 2/25/94

Page 4 of 4

Project Manager: Tim Watchers

Well ID: MW-4

Well Diameter: 2

DTW Measurements:
Initial: _____
Recharge: _____

Calc Well Volume: 7 gal
Well Volume: _____ gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____

Other: _____

Time	Temp C / F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
10:46	18.4	.98	6.66	2		
10:46	18.1	.97	6.64	3		
10:47	16.8	.98	6.66	5		
10:48	17.0	.98	6.64	7		

ATTACHMENT 4

Laboratory Report

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Northwest Region
4080 Pike Lane
Suite C
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
FAX (510) 825-0720

Client Number: 020105001
Contract Number: 6CSW25243X
Facility Number: 9-4930
Project ID: 3369 Castro Valley Blvd.
Work Order Number: C4-03-0016

March 9, 1994

Tim Watchers
Groundwater Technology, Inc.
4057 Port Chicago Hwy.
Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 02/28/94.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rashmi Shah
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		01	02	03	05
Client Identification		TBLB	RBMW-1	MW-1	MW-2
Date Sampled		02/25/94	02/25/94	02/25/94	02/25/94
Date Analyzed		03/03/94	03/03/94	03/05/94	03/05/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	6	41
Toluene	0.5	<0.5	<0.5	1	<0.5
Ethylbenzene	0.5	<0.5	<0.5	5	17
Xylene, total	0.5	<0.5	<0.5	3	5
TPH as Gasoline	50	<50	<50	250	820
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		104	102	101	102

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Table 1 (continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and

Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		07	09	E030394	
Client Identification		MW-3	MW-4	METHOD BLANK	
Date Sampled		02/25/94	02/25/94	--	
Date Analyzed		03/05/94	03/05/94	03/03/94	
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	20	<0.5	
Toluene	0.5	<0.5	0.8	<0.5	
Ethylbenzene	0.5	<0.5	12	<0.5	
Xylene, total	0.5	<0.5	6	<0.5	
TPH as Gasoline	50	<50	450	<50	
Detection Limit Multiplier		1	1	1	
BFB surrogate, % recovery		100	98.7	99.3	

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: 020105001
Contract Number: 6CSW25243X
Facility Number: 9-4930
Project ID: 3369 Castro Valley Blvd.
Work Order Number: C4-03-0016

Table 1

ANALYTICAL RESULTS

Purgeable Halocarbons In Water

EPA Method 601[a]

GTEL Sample Number		03	05	07	09
Client Identification		MW-1	MW-2	MW-3	MW-4
Date Sampled		02/25/94	02/25/94	02/25/94	02/25/94
Date Analyzed		03/02/94	03/02/94	03/02/94	03/02/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	1	<1	<1	<1	<1
Chloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene	0.5	0.8	<0.5	<0.5	13
Chloroform	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	0.5
Trichloroethene	0.5	8	<0.5	1	51
Dichlorodifluoromethane	0.5	9	<0.5	<0.5	5
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5
2-Chloroethylvinyl ether	1	<1	<1	<1	<1
Bromoform	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	0.5	41	0.6	170	400
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	0.5	<0.5	<0.5	<0.5	<0.5
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		114	108	124	125

a. Federal Register, Vol. 49, October 26, 1984. BFB surrogate recovery acceptability limits are 65-135%.

Table 1 (Continued)

ANALYTICAL RESULTS

Purgeable Halocarbons in Water

EPA Method 601[a]

GTEL Sample Number		C030294			
Client Identification		METHOD BLANK			
Date Sampled		-			
Date Analyzed		03/02/94			
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5			
Bromomethane	0.5	<0.5			
Vinyl chloride	1	<1			
Chloroethane	0.5	<0.5			
Methylene chloride	0.5	<0.5			
1,1-Dichloroethene	0.5	<0.5			
1,1-Dichloroethane	0.5	<0.5			
1,2-Dichloroethene	0.5	<0.5			
Chloroform	0.5	<0.5			
1,2-Dichloroethane	0.5	<0.5			
1,1,1-Trichloroethane	0.5	<0.5			
Carbon tetrachloride	0.5	<0.5			
Bromodichloromethane	0.5	<0.5			
1,2-Dichloropropane	0.5	<0.5			
cis-1,3-Dichloropropene	0.5	<0.5			
Trichloroethene	0.5	<0.5			
Dichlorodifluoromethane	0.5	<0.5			
Dibromochloromethane	0.5	<0.5			
1,1,2-Trichloroethane	0.5	<0.5			
trans-1,3-Dichloropropene	0.5	<0.5			
2-Chloroethylvinyl ether	1	<1			
Bromoform	0.5	<0.5			
Tetrachloroethene	0.5	<0.5			
1,1,2,2-Tetrachloroethane	0.5	<0.5			
Chlorobenzene	0.5	<0.5			
1,2-Dichlorobenzene	0.5	<0.5			
1,3-Dichlorobenzene	0.5	<0.5			
1,4-Dichlorobenzene	0.5	<0.5			
Trichlorofluoromethane	0.5	<0.5			
Detection Limit Multiplier		1			
BFB surrogate, % recovery		115			

a. Federal Register, Vol. 49, October 26, 1984. BFB surrogate recovery acceptability limits are 65-135%.

Client Number: 020105001
Contract Number: 6CSW25243X
Facility Number: 9-4930
Project ID: 3369 Castro Valley Blvd.
Work Order Number: C4-03-0016

QC Check Sample Results

Analyte	Source	Date of Analysis	Expected Value	Units	Recovery[a], %
Modified EPA 8020:					
Benzene	Ultra	03/02/94	50.0	ug/L	89.4
Toluene	Ultra	03/02/94	50.0	ug/L	92.8
Ethylbenzene	Ultra	03/02/94	50.0	ug/L	93.8
Xylene, total	Ultra	03/02/94	150	ug/L	98.5
EPA 8010:					
Chlorobenzene	Ultra Scientific	02/09/94	50.0	ug/L	108
Benzene	Ultra Scientific	02/09/94	50.0	ug/L	113
Toluene	Ultra Scientific	02/09/94	50.0	ug/L	110
Ethylbenzene	Ultra Scientific	02/09/94	50.0	ug/L	111
Xylene, total	Ultra Scientific	02/11/94	150.0	ug/L	108
1,1-Dichloroethene	Ultra Scientific	02/11/94	50.0	ug/L	96.4
Trichloroethene	Ultra Scientific	02/09/94	50.0	ug/L	94.6
Chloroform	Ultra Scientific	02/09/94	50.0	ug/L	107

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
Benzene	C4030023-02	20.0	ug/L	91.5	88.0	3.9	57.3 - 138
Toluene	C4030023-02	20.0	ug/L	97.0	92.0	5.3	63.0 - 134
Ethylbenzene	C4030023-02	20.0	ug/L	95.5	92.5	3.2	59.3 - 137
Xylene, total	C4030023-02	60.0	ug/L	104	100	3.9	59.3 - 144
EPA 8010/8020:							
Chlorobenzene	C4030016-05	20.0	ug/L	108	108	0	63.5 - 129
Benzene	C4030016-05	20.0	ug/L	79.5	82.5	3.7	57.3 - 138
Toluene	C4030016-05	20.0	ug/L	93.9	95.4	1.6	63 - 134
Ethylbenzene	C4030016-05	20.0	ug/L	99.5	98.5	1.0	59.3 - 137
Xylene, total	C4030016-05	20.0	ug/L	107	106	0.94	59.3 - 144
1,1-Dichloroethene	C4030016-05	20.0	ug/L	104	95.5	10.5	44.6 - 150
Trichloroethene	C4030016-05	20.0	ug/L	109	112	2.7	61.5 - 133

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-4930
Facility Address: 3369 Castro Valley blvd
Consultant Project Number: 20105001
Consultant Name: GTI
Address: 4057 Port Chicago Hwy
Project Contact (Name): Tim Hatchers
(Phone): 671-2387 (Fax Number):

Chevron Contact (Name): Ken Kan
(Phone): 842 8752
Laboratory Name: STEL
Laboratory Release Number: 741501
Samples Collected by (Name): Greg MASDA
Collection Date: 2/25/94
Signature:

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	H O L D	H V O C			
TBLB	01	2	W	D		HCl	Y	X												
RBMW-1	02	1				HCl		X												
MW-1	03	6			11:40	HCl/NONE		X									X			
RBMW-2	04	1				HCl										X				
MW-2	05	6			11:50	HCl/NONE		X						3/4/94			X			
RBMW-3	06	1				HCl						H. Chang				X				
MW-3	07	6			12:00	HCl/NONE		X									X			
RBMW-4	08	1				HCl										X				
MW-4	09	6			12:15	HCl/NONE		X									X			

NOTE:
DO NOT BILL
TB-LB SAMPLES
Seals Intact
3°C

Remarks

C40380116

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	GTI			GTI	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	GTI	2-28-94		STEL	2/28/94 15:40
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
		3/1/94			

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted