95 JUN 15 PM 1:35

Chevron

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

Site Assessment & Remediation Group
Phone (510) 842-9500

June 15, 1995

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

Re: Former Chevron Service Station #9-0100
2428 Central Avenue, Alameda, CA

Dear Ms. Shin:

Enclosed is the Quarterly Groundwater Sampling report dated April 28, 1995, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Dissolved concentrations of hydrocarbons observed in the monitor wells during the past quarter are consistent with previous observations at the site. Depth to ground water was measured at approximately 5.2 to 5.5 feet below grade and the direction of flow is to the northeast.

Dissolved hydrocarbon concentrations have remained consistently low at this site for a full hydrologic cycle. Concentrations of BTEX constituents have either remained constant or decreased since monitoring began. As the station facilities have been absent from this site since 1970, we anticipate this trend to continue. We therefore propose to continue monitoring and sampling all wells at this site on a semi-annual basis for a period of two years. At the conclusion of two years, we will evaluate all historical data to determine if further monitoring or closure is appropriate. We will implement these modifications following your concurrence.

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

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Ms. B.C. Owen

Mr. Robert Stahl
Stahl-Wooldridge Investment Properties
2428 Central Avenue
Alameda, CA 94501

Mr. Carl A. Pendleton
Vice President
Northern California Special
Assets Group #1415
Bank of America, NT & SA
50 California Street, Suite 740
P.O. Box 37000
San Francisco, CA 94137

Kent W. Peters, Asset Manager
Bank of America, NT & SA
Department 4242
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

GETTLER-RYAN INC.

April 28, 1995

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

Re: Former Chevron Service Station #9-0100
2428 Central Avenue
Alameda, CA
Job #5178.80

Dear Mr. Miller:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan (G-R) personnel. On March 22, 1995, field personnel were on-site to gauge and sample three wells (MW-1, MW-2 and MW-3) at Former Chevron Service Station #9-0100 located at 2428 Central Avenue in Alameda, California.

Static groundwater levels were measured on March 22, 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Superior Precision Analytical, Inc. Analytic results are presented in Table 1. The chain of custody document and laboratory analytic report are enclosed. G-R is not responsible for laboratory omissions or errors.

Thank you for allowing Gettler-Ryan to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Respectfully submitted,

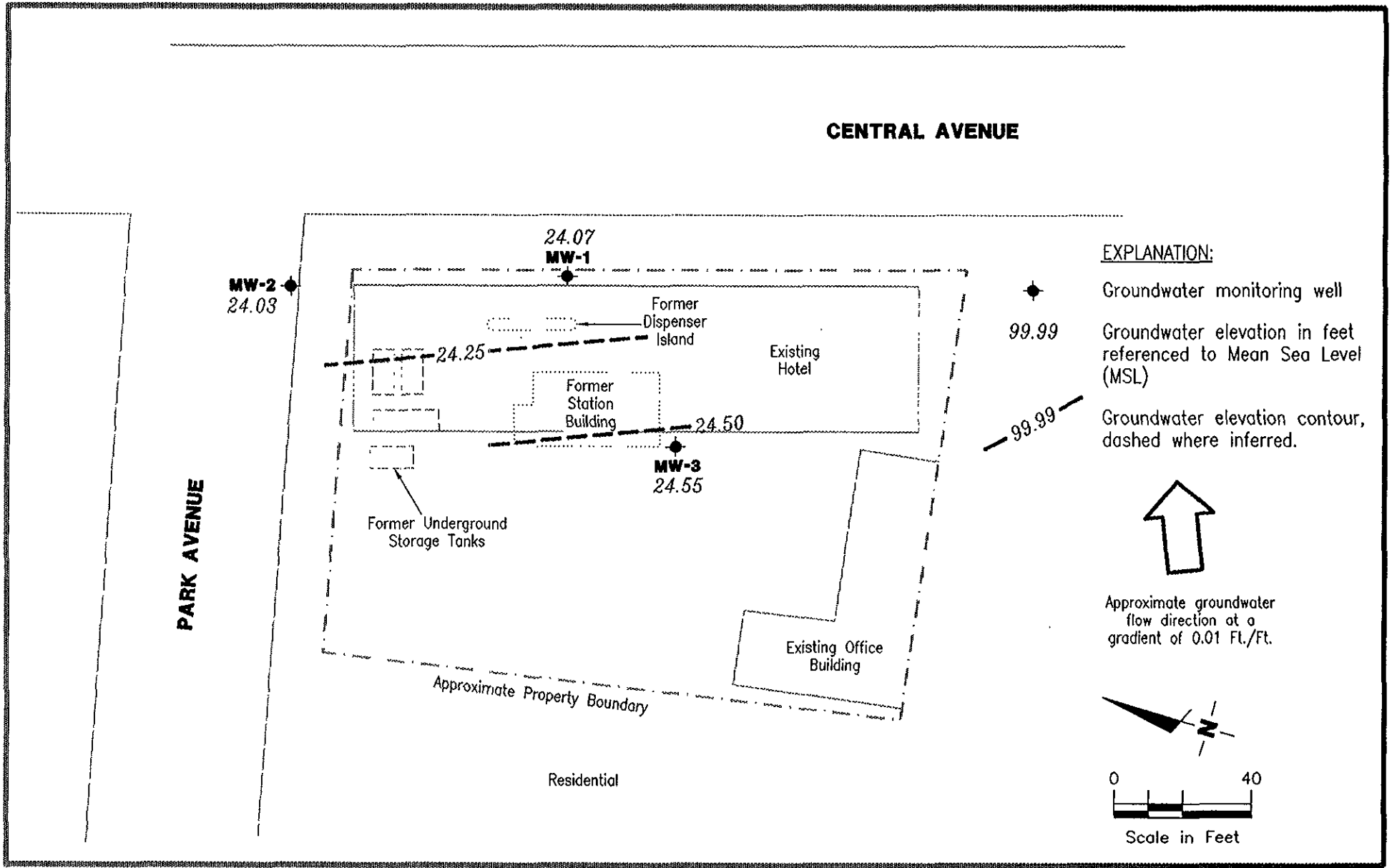
Argy Leyton
Environmental Project Manager

Stephen J. Carter
Senior Geologist, R.G. 5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

AML/SJC/aml
5178.QML

Plate 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytic Results
Attachments: Standard Operating Procedure
Field Data Sheets
Chain of Custody Document and Laboratory Analytic Reports



Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Former Chevron Service Station No. 9-0100
2428 Central Avenue
Alameda, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5178.80		3/22/95	

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X
						<----------ppb---------->				
MW-1/ 29.23	3/10/94	6.79	22.44	0	8015/8020[1,2]	7,400	120	120	33	72
	6/21/94	7.74	21.49	0	8015/8020	5,300	140	60	21	43
	9/26/94	8.94	20.29	0	8015/8020	9,500	<250[5]	<250[5]	<250[5]	<250[5]
	12/16/94	6.57	22.66	0	8015/8020	4,700	<0.5	46	15	48
	3/22/95	**5.16**	**24.07**	**0**	**8015/8020**	**8,800**	**55**	**14**	**11**	**<10**
MW-2/ 29.18	3/10/94	6.94	22.24	0	8015/8020[2,3]	6,400	<5	64	58	17
	6/21/94	7.89	21.29	0	8015/8020	1,800	23	12	6.9	32
	9/26/94	8.98	20.20	0	8015/8020	8,400	<100[5]	<100[5]	<100[5]	<100[5]
	12/16/94	6.65	22.53	0	8015/8020	2,300	<0.5	29	8.9	33
	3/22/95	**5.15**	**24.03**	**0**	**8015/8020**	**1,500**	**0.6**	**4.5**	**<0.5**	**2.5**
MW-3/ 30.09	3/10/94	7.30	22.79	0	8015/8020[2,4]	<50	<0.5	<0.5	<0.5	<0.5
	6/21/94	8.53	21.56	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/26/94	9.80	20.29	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/16/94	7.11	22.98	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/22/95	**5.54**	**24.55**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Trip Blank TB-LB	3/10/94	---	---	---	8015/8020	<50	<0.5	0.7	<0.5	<0.5
	6/21/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/26/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	12/16/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	3/22/95	**---**	**---**	**---**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1. Water Level Data and Groundwater Analytic Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
TPH(D) = Total Petroleum Hydrocarbons as Diesel
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
EDB = Ethylene Dibromide
ppb = Parts per billion
--- = Not analyzed/Not applicable

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8020 = EPA Method 8020 for BTEX

NOTES:

March 10, 1994 water level data and groundwater analytic results were compiled from the Subsurface Investigation Report prepared for Chevron by Weiss Associates, April 13, 1994.

* Product thickness was measured on and after June 21,1994 with a MMC Flexi-Dip interface probe.

[1] TPH(D) was also analyzed and detected at 840 ppb. However, chromatogram does not match typical diesel pattern.
[2] Organic lead and EDB were also analyzed but not detected at detection limts of 4 and 0.02 ppb, respectively.
[3] TPH(D) was also analyzed and detected at 920 ppb. However, chromatogram does not match typical diesel pattern.
[4] TPH(D) was also analyzed but not detected at detection limits of 50 ppb.
[5] Detection limits raised due to the dilution required by a high amount of foaming in the sample.

STANDARD OPERATING PROCEDURE
QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan 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 pevention 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 a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

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

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron 9-0100 JOB # 5178.80

LOCATION 2428 Central Ave. DATE 22 March 95

CITY Alameda, CA. TIME

Well ID. MW-1 Well Condition

Well Diameter 2 in. Hydrocarbon Thickness ft.

Total Depth 24.41 ft.

Depth to Liquid- 5.16 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 19.25 x(VF) .17 = (Estimated Purge Volume) 3.27 9.81 gal.

Purging Equipment Stack Pump

Sampling Equipment Disposable Bailer

Starting Time 1059 Purging Flow Rate 1.2 gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
1102	6.9	330	60.1	3
1105	6.9	300	61.7	6
1108	6.8	310	60.7	9

Did well dewater? 1110 If yes, time Volume

Sampling Time Weather Conditions Rain

Analysis Gas · BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron 9.0100 JOB # 5178.80

LOCATION 2428 Central Ave. DATE 22. March 95

CITY Alameda, CA. TIME

Well ID. MW-2 Well Condition Flooded

Well Diameter 2 in. Hydrocarbon Thickness ft.

Total Depth 23.6 ft.

Depth to Liquid- 5.15 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 18.45 x(VF) .17 = (Estimated Purge Volume) 9.39 gal.

Purging Equipment Stack pump

Sampling Equipment Disposable Bailer

Starting Time 10.26 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
10:29	6.5	550	63.7	3
10:33	6.4	510	64.3	6
10:36	6.4	510	64.0	9

Did well dewater? If yes, time Volume

Sampling Time 10:41 Weather Conditions

Analysis GAS · BTEX Bottles Used VOA

Chain of Custody Number

COMMENTS

FOREMAN Ron Neal ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING FIELD DATA SHEET

COMPANY Chevron 9-0100 JOB # 5178.80

LOCATION 2428 Central Ave DATE 22 March 95

CITY Alameda, Ca. TIME 9:25

Well ID. MW-3 Well Condition CLEAN

Well Diameter 2 in. Hydrocarbon Thickness ____ ft.

Total Depth 24.2 ft.

Depth to Liquid- 5.54 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 3 x 18.66 x(VF) .17 = (Estimated Purge Volume) 3.17 9.51 gal.

Purging Equipment Stack Pumps

Sampling Equipment Disposable bailers

Starting Time 09 48 Purging Flow Rate ____ gpm.

(Estimated Purge Volume) ____ gal. / (Purging Flow Rate) ____ gpm. = (Anticipated Purging Time) ____ min.

Time	pH	Conductivity	Temperature	Volume
951	6.7	530	61.6	3
954	6.7	490	60.5	6
957	6.7	480	61.4	9

Did well dewater? ____ If yes, time ____ Volume ____

Sampling Time 1000 Weather Conditions Raining

Analysis Gas · BTEX Bottles Used VOA

Chain of Custody Number ____

COMMENTS Master lock had to cut

FOREMAN Tom Tuel ASSISTANT ____

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 80941

Chain-of-Custody-Record

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

Chevron Facility Number ~~9-7001~~ 9-0100
Facility Address 2428 CENTRAL AVE
Consultant Project Number 5178.80
Consultant Name GETTLER - RYAN
Address 6747 SIERRA Ct. SUITE J
Project Contact (Name) AEGY LEYTON
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) MARK MILLER
(Phone) 842-8134
Laboratory Name SUPERIOR
Laboratory Release Number 271910
Samples Collected by (Name) RON NEAL
Collection Date 22 MARCH 95
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)	Remarks
MW-3	3	3		G		HCL	Y	X								ANALYZE
MW-2		↓		↓		↓	↓	X								↓
MW-1		↓		↓		↓	↓	X								
TB-LB	4	~~2~~	W	G	-	HCL	Y	X								

NOTE:
DO NOT BILL
TB-LB SAMPLES

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	GR	3/24/95 10:45		AERO	3-24-95 10:45
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	AERO	3/24/95 1200		AERO	3/24/95 1201
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
	Aero	3/24/95 1235			3/24/95

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

3/22/95

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GETTLER RYAN INC.
6747 SIERRA CT, SUITE G
DUBLIN, CA 94568

Date: April 4, 1995

Attn: ARGY LEYTON

Laboratory Number : 80941

Project Number/Name : 5178.80

This report has been reviewed and

approved for release.

Christine Horn for

Senior Chemist
Account Manager

Certified Laboratories

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

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

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5178.80
Reported on March 29, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 80941

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-3	03/22/95	03/24/95	03/28/95	03/28/95	BC281.03	01
MW-2	03/22/95	03/24/95	03/28/95	03/28/95	BC281.03	02
MW-1	03/22/95	03/24/95	03/28/95	03/28/95	BC281.03	03
TB-LB	03/22/95	03/24/95	03/28/95	03/28/95	BC281.03	04

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BC281.03-01	Method Blank	MB	Water	03/28/95	03/28/95
BC281.03-02	SYS EFF	MS 80934-03	Water	03/28/95	03/28/95
BC281.03-03	SYS EFF	MSD 80934-03	Water	03/28/95	03/28/95

Certified Laboratories

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GETTLER RYAN INC.
Attn: ARGY LEYTON

Project 5178.80
Reported on March 29, 1995

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
80941-01	MW-3	Water	1.0	-
80941-02	MW-2	Water	1.0	-
80941-03	MW-1	Water	20.0	-
80941-04	TB-LB	Water	1.0	-

R E S U L T S O F A N A L Y S I S

Compound	80941-01 Conc. ug/L	RL	80941-02 Conc. ug/L	RL	80941-03 Conc. ug/L	RL	80941-04 Conc. ug/L	RL
Gasoline_Range	ND	50	1500	50	8800	1000	ND	50
Benzene	ND	0.5	0.6	0.5	55	10	ND	0.5
Toluene	ND	0.5	4.5	0.5	14	10	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	11	10	ND	0.5
Total Xylenes	ND	0.5	2.5	0.5	ND	10	ND	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	112		136		129		109	

Certified Laboratories

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 80941
Method Blank(s)

	BC281.03-01 Conc. ug/L	RL
Gasoline_Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	112	

Certified Laboratories

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 80941

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
		For Water Matrix (ug/L)				
		BC281.03 02 / 03 - Sample Spiked: 80934 - 03				
Gasoline_Range	ND	320	301/317	94/99	65-135	5
Benzene	ND	20	21.9/19.3	110/97	65-135	13
Toluene	ND	20	18.9/17.8	95/89	65-135	7
Ethyl Benzene	ND	20	19.04/17.96	95/90	65-135	5
Total Xylenes	ND	60	56.9/53.3	95/89	65-135	7
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				118/109	50-150	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

Certified Laboratories

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