

November 28, 2000

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QUARTERLY GROUNDWATER MONITORING REPORT OCTOBER 2000 GROUNDWATER SAMPLING ASE JOB NO. 3406

at
Former Olympic Service Station
1436 Grant Avenue
San Lorenzo, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
208 West El Pintado Road
Danville, CA 94526
(925) 820-9391

1.0 INTRODUCTION

The following is a report detailing the results of the October 2000 quarterly groundwater sampling at the Former Olympic Service Station located at 1436 Grant Avenue, San Lorenzo, California (Figures 1 and 2).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On October 25, 2000, ASE associate geologist Ian Reed measured the depth to water in each site monitoring well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating product or sheen. No free-floating product or sheen was observed in any of the site monitoring wells. Groundwater elevation data is presented in Table One, and groundwater elevation (potentiometric surface) contours are plotted on Figure 2. The groundwater flow is to the west at a gradient of 0.004-feet/foot, which is consistent with previous findings.

TABLE ONE
Groundwater Elevation Data

	Date	Top of Casing	Depth to	Groundwater
Well	of	Elevation	Water	Elevation
I.D.	Measurement	(relative to project datum)	(feet)	(project data)
MW-1	10/06/99	15.00	8.35	6.65
	01/13/00		7.90	7.10
	04/12/00		7.08	7.92
	07/19/00	•	7.66	7.34
	10/25/00		7.91	7.09
MW-2	10/06/99	14.46	7.87	6.59
	01/13/00		7.46	7.00
	04/12/00		6.67	7.79
	07/19/00		7.23	7.23
	10/25/00		7.52	6.94
MW-3	10/06/99	14.41	7.90	6.51
	01/13/00		7.50	6.91
	04/12/00		6.61	7.80
	07/19/00		7.24	7.17
	10/25/00		7.52	6.89

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

25, 2000, ASE associate geologist Ian Reed collected On October groundwater samples from all three site monitoring wells for analysis. Prior to sampling, the wells were purged of four well casing volumes of groundwater. The pH, temperature and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. A slight hydrocarbon odor was present in water purged from monitoring well MW-3. Samples were collected from each well using dedicated polyethylene bailers. The groundwater samples to be analyzed for non-volatile compounds were decanted from the bailers into 1-liter amber glass bottles. The samples to be analyzed for volatile compounds were contained in 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. All the samples were labeled, placed in protective foam sleeves, and stored on ice for transport to Chromalab, Inc. of Pleasanton. California under chain of custody. Well sampling purge water was contained in sealed and labeled 55-gallon steel drums. See Appendix A for a copy of the Field Logs.

The groundwater samples were analyzed by Chromalab petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 5030/8015, total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 3510/8015, and benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020. Groundwater samples collected from monitoring well MW-2, located near the former waste-oil underground storage tank (UST), were also analyzed for total petroleum hydrocarbons as motor oil (TPH-MO) by modified EPA Method 3510/8015. analytical results are tabulated in Tables Two and Three, and copies of the certified analytical report and chain of custody form are included in Appendix B.

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
TPH-G, TPH-D, TPH-MO, BTEX, MTBE and O&G
All results are in parts per billion

Well ID &			TPH						
Date	TPH	TPH	Motor			Ethyl	Total		Oil &
Sampled	Gasoline	Diesel	Oil	Benzene	Toluene	Benzene	Xylenes	MTBE	Grease
<u>MW-1</u>									
10/06/99	3,900*	84**		< 25	< 25	< 25	< 25	3,500	
1/13/00	< 1,300	< 50		18	< 13	< 13	< 13	1,700	
4/12/00	< 1,000	56**		66	< 10	< 10	< 10	1,600	
7/19/00	< 1,000	52**		< 10	< 10	< 10	< 10	1,200	
10/25/00	4,100*	76**		120	< 25	< 25	< 25	6,100	
MW-2									
10/06/99	70*	< 50	< 500	< 0.5	< 0.5	< 0.5	< 0.5	11	< 1,000
1/13/00	< 50	< 50	< 500	< 0.5	< 0.5	< 0.5	< 0.5	6.2	< 1,000
4/12/00	< 50	< 50	< 500	< 0.5	< 0.5	< 0.5	< 0.5	39.	1,100
7/19/00	< 1,000	< 50	< 500	< 10	< 10	< 10	< 10	990	1,300
10/25/00	370*	< 50	< 500	< 2.5	< 2.5	< 2.5	< 2.5	690	
<u>MW-3</u>									
10/06/99	3,900	300**		900	89	160	560	790	-
1/13/00	740	210		110	4.8	3 5	18	290	
4/12/00	2,200	640**		650	9.7	180	24	140	•
7/19/00	2,700*	270**		420	< 2.5	160	< 2.5	99	
10/25/00	710*	150**		180	< 2.5	2 4	< 2.5	7 1	
MCL	NE	NE	NE	1.0	150	700	1,750	13	NE

Notes:

Most recent concentrations are in bold.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = MCL is not established.

^{* =} Hydrocarbons not typical of gasoline pattern.

^{** =} Hydrocarbons not typical of diesel pattern.

^{--- =} Not analyzed

TABLE THREE

Summary of Chemical Analysis of GROUNDWATER Samples Monitoring Well MW-2 VOCs and SVOCs

All results are in parts per billion

Date Sampled	<u>VOCs</u>	<u>SVOCs</u>
10/06/99	ND	ND
01/13/00	ND	ND
04/12/00	NA	NA
7/19/00	NA	NA
10/25/00	N A	N A

Notes:

ND = No compounds detected at various detection limits.

NA = Samples were not analyzed for VOCs and SVOCs.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater samples collected from monitoring well MW-1 contained 4,100 parts per billion (ppb) TPH-G, 76 ppb TPH-D, 120 ppb benzene, and 6,100 ppb MTBE. The groundwater samples collected from monitoring well MW-2 contained 370 ppb TPH-G and 690 ppb MTBE. The groundwater samples collected from monitoring well MW-3 contained 710 ppb TPH-G, 150 ppb TPH-D, 180 ppb benzene, 24 ppb ethyl benzene, and 71 ppb MTBE.

The MTBE concentrations in groundwater samples collected from all three wells exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water. The benzene concentration detected in groundwater samples collected from monitoring wells MW-1 and MW-3 also exceeded the DHS MCL for drinking.

Since the monitoring wells have now been sampled quarterly for over one year, our client, Mr. George Jaber, requests that the Alameda County Health Care Services Agency (ACHCSA) review this case for closure. ASE requests that the ACHCSA respond to this request in writing during the next quarter. The next quarterly sampling is scheduled for January 2001.

5.0 REPORT LIMITATIONS

The results of this assessment represent conditions at the time of the groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. of the laboratory work cited in this report was prepared under the CAL-EPA certified direction of an independent laboratory. The laboratory is solely responsible for independent the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

No. 6586

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Ian T. Reed

Associate Geologist

Robert E. Kitay, R.G., R.E.A.

Senior Geologist

Attachments: Figures 1 and 2

Appendices A through B

cc: Mr. George Jaber

Mr. Scott Seery, Alameda County Health Care Services Agency

Mr. Chuck Headlee, California Regional Water Quality Control Board



NORTH



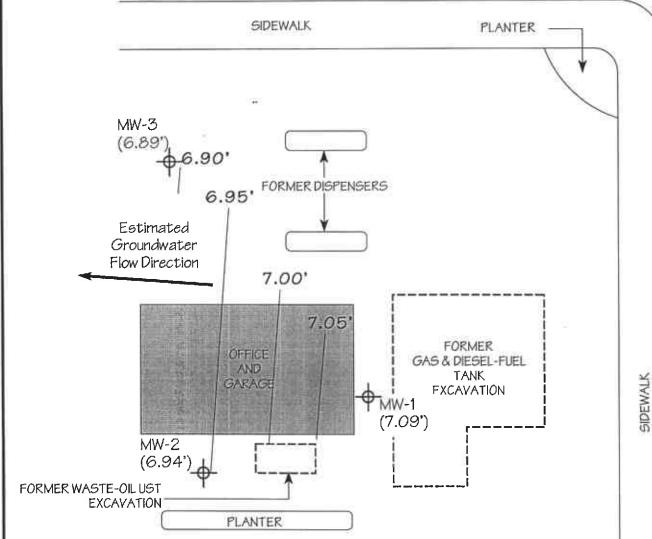
LOCATION MAP

Olympic Service Station 1436 Grant Avenue San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC.

Figure 1

GRANT AVENUE



CHANNEL STREET



D

NORTH <u>SCALE</u> 1" = 20'

LEGEND

MW-1 (7.09°)

Monitoring Well with groundwater elevation

7.05'

Groundwater elevation contour

POTENTIOMETRIC SURFACE MAP - 10/25/00

Olympic Service Station 1436 Grant Avenue San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC.

Figure 2

WELL SAMPLING FIELD LOG

Project Name and Address:	Jaher	
Job #: 3406	Date of sampling:	10/25/00
Well Name: Mu-1	Sampled by:	TR.
Total depth of well (feet): 2	Well diameter	(inches): 2 *
Depth to water before sampling (fe	et): 	
Thickness of floating product if any	,	
Depth to water before sampling (fe Thickness of floating product if any Depth of well casing in water (feet) Number of gallons per well casing Number of well casing volumes to	:	
Number of gallons per well casing	volume (gallons):	<i>2.</i> 8
Number of well casing volumes to	be removed:	4
Req'd volume of groundwater to be	purged before sampling	g (gallons): 20
Equipment used to purge the well:	ded baite	· (
Time Evacuation Began: 12.20	Time Evacuation	Finished: 1240
Approximate volume of groundwate		
Did the well go dry?: vo	After how many	gallons:
Time samples were collected:	1245	
Depth to water at time of sampling	AA - 1	
Percent recovery at time of sampli	ng:	
Samples collected with:	ded. Lailer	
Sample color: clea boun	Odor: 49-nc	31) sht He udar
Description of sediment in sample:	Odor:	
CHEMICAL DATA Volume Purged Temp • C 199 20:1 3 20:2 4 20:0	PH Conductivity (p 7.23 21 7.25 21 7.22 20 7.22 21	15 <i>)</i> - - -
SAMPLES COLLECTED Sample # of containers Volume & type of MV-1 3 40m/ Vol. 2 1-like fr	container Pres Iced? Anal	ysis

Project Name an	nd Address: _		Jaber		
Job #:	406	Date of	sampling:	10/25/00	?
Well Name:	"HW-2	Sampled	by:	1772	
				iameter (inches):	2 *
Depth to water	before sampli:	ng (feet):	7.52	4.	····
Thickness of flo	ating product	if any:			
Depth of well c	asing in water	(feet):	11.0	04	
Number of gallo					
Number of well	casing volum	es to be reme	oved:	4	
Req'd volume of	f groundwater	to be purged	before sa	ampling (gallons)	7.6
Equipment used	to purge the	well:	ded	· bailer	
Time Evacuation	n Began: <u>]157</u>	<u></u> Ti	me Evacı	uation Finished:_	1210
Approximate vo	lume of grou	ndwater purge	ed:	7.6	
Did the well go	dry?: عن	Ai	ter how	many gallons:	
(T)					
Depth to water	at time of sar	mpling:	<u>8.13</u>	· •	
Percent recovery	at time of	sampling:			
Samples collecte	ed with:		aid.	bailer	
Sample color: _	Clev/bran	<u>n</u> 00	dor:	none	
Description of s	sediment in sa	mple:	f. si	bailer sone It	
CHEMICAL DA					
Volume Purged	Temp (·	Conduc	<u>ctivity</u> (MS) 22 22	
2	<u>21.4</u> 21.4			<u> </u>	
-		7.3.		<u> </u>	
-	21.3 21.4	7.31		71_	
	- <u></u>				
				<u></u>	
SAMPLES COL	FCTED				
SAMI DES COL	CECTED				
Sample # of con	tainers Volume &	type container	Pres Icedi	? Analysis	
MN-7 3	40	MI VEA	<u>V.</u> <u>V</u>	£	
3		iter Amber			
					

Project Name and Address:	Jal	per	
Job #:	Date of sa	impling:	10/25/10
Well Name: MW-3	Sampled b	y:	177-
Total depth of well (feet):	19.01	Well diameter	(inches): Z ⁴
Depth to water before sampling	g (feet):	7.52'	,
Thickness of floating product i	f anv:		
Depth of well casing in water	(feet):	11.48	
Number of gallons per well ca	asing volume (s	gallons): Z	
Number of well casing volume	es to be remov	ed:	{
Req'd volume of groundwater	to be nurged b	efore sampling	(gallons): &
Equipment used to purge the	well.	der bailer	φ
Time Evacuation Began: 1255	Time	e Evacuation 1	Finished: 1305
Approximate volume of groun	dwater purged:	8	
Did the well go dry?:	Afte	r how many s	vallons: —
Time samples were collected:		1310)
Depth to water at time of san	nnline:	8.33	
Percent recovery at time of s	ampling.		
Samples collected with:	de	d. bailer	 ,
Sample color: clea box	n Odo	r: slight	HCoder
Description of sediment in sa	mule.	6 sil+	
Description of Scamon in Sa.	шрто		
CHEMICAL DATA			
Volume Purged Temp	На	Conductivity	5)
1 19.9	7.41	Conductivity (N	,
2 70.0	7.40	20	-
3 Lu 0	1.40	20	-
4 tho	7.40	21	-
		Acres 6-4-4-48/10.	-
			-
SAMPLES COLLECTED			
SAMI LES COBBECTED			
Sample # of containers Volume &	type container. Pr	es Iced? Anal	vsis
	MIVOA	<u> </u>	
	Amber		
			

APPENDIX B

Environmental Services (SDB)

Submission #: 2000-10-0516

Date: November 3, 2000

Aqua Science Engineers, Inc. 208 West El Pintado Road Danville, CA 94526

Attn.: Mr. lan T. Reed

Project: 3406

Jaber

Site:

1436 Grant Ave.

San Leandro, CA

Dear Mr. Reed,

Attached is our report for your samples received on Wednesday October 25, 2000 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after December 9, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919. You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil

Submission #: 2000-10-0516

CHROMALAB, INC. Environmental Services (SDB)

Diesel

Aqua Science Engineers, Inc.

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Attn: Ian T. Reed

Project: Jaber

Project #: 3406

Site:

1436 Grant Ave.

San Leandro, CA

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
MW-1	Water	10/25/2000 12:45	1
MW-3	Water	10/25/2000 13:10	3

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Attn.: lan T. Reed

Test Method:

8015M

Prep Method:

3510/8015M

Diesel

Sample ID:

MW-1

Lab Sample ID: 2000-10-0516-001

Project:

3406

Received:

10/25/2000 14:30

Jaber

Extracted:

Site:

1436 Grant Ave. San Leandro, CA

10/26/2000 13:25

Sampled:

10/25/2000 12:45

QC-Batch:

2000/10/26-03.10

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	78	50	ug/L	1.00	10/28/2000 17:32	ndp
Surrogate(s) o-Terphenyl	105.7	60-130	%	1.00	10/28/2000 17:32	

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc. Test Method:

8015M

Attn.: Ian T. Reed

Prep Method:

3510/8015M

Diesel

Sample ID:

MW-3

Lab Sample ID: 2000-10-0516-003

Project:

3406

Received:

10/25/2000 14:30

Jaber

Site:

1436 Grant Ave.

Extracted:

10/26/2000 13:25

Sampled:

San Leandro, CA 10/25/2000 13:10

QC-Batch:

2000/10/26-03.10

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	150	50	ug/L	1.00	10/28/2000 18:49	ndp
Surrogate(s) o-Terphenyl	119.3	60-130	%	1.00	10/28/2000 18:49	

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method:

8015M

Attn.: Ian T. Reed

Prep Method:

3510/8015M

Batch QC Report

Diesel

Water

Method Blank

QC Batch # 2000/10/26-03.10

MB: 2000/10/26-03.10-003

Date Extracted: 10/26/2000 13:25

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	10/28/2000 10:28	
Surrogate(s) o-Terphenyl	100.0	60-130	%	10/28/2000 10:28	

Aqua Science Engineers, Inc.

Environmental Services (SDB)

Test Method:

8015M

Attn: Ian T. Reed

To:

Prep Method:

3510/8015M

Submission #: 2000-10-0516

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/10/26-03.10

LCS:

2000/10/26-03.10-001

Extracted: 10/26/2000 13:25

Analyzed

10/28/2000 11:06

LCSD:

2000/10/26-03.10-002

Extracted: 10/26/2000 13:25

Anaiyzed

10/28/2000 11:45

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recovery [%]		covery [%] RPD Ctrl. Limits [%]		Flags		
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1180	1150	1250	1250	94.4	92.0	2.6	60-130	25		
Surrogate(s) o-Terphenyl	25.4	24.8	20.0	20.0	127.0	124.0		60-130		 	

CHROMALAB, INC. Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Prep Method: 3510/8015M

Submission #: 2000-10-0516

Legend & Notes

Diesel

Analyte Flags

Attn: ian T. Reed

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Printed on: 11/03/2000 17:42

Page 6 of 6

CHROMALAB, INC. Environmental Services (SDB)

Submission #: 2000-10-0516

Gas/BTEX and MTBE

Aqua Science Engineers, Inc.

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Attn: Ian T. Reed

Project: Jaber

Project #: 3406

Site:

1436 Grant Ave.

San Leandro, CA

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
MW-1	Water	10/25/2000 12:45	1
MW-2	Water	10/25/2000 12:15	2
MW-3	Water	10/25/2000 13:10	3

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc. Test Method:

8020 8015M

Prep Method:

5030

Gas/BTEX and MTBE

Sample ID:

Attn.: Ian T. Reed

MW-1

Lab Sample ID: 2000-10-0516-001

Project:

3406

Received:

10/25/2000 14:30

Jaber

10/30/2000 19:44

Site:

1436 Grant Ave. San Leandro, CA Extracted:

Sampled:

10/25/2000 12:45

QC-Batch:

2000/10/30-01.02

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	4100	2500	ug/L	50.00	10/30/2000 19:44	g
Benzene	120	25	ug/L	50.00	10/30/2000 19:44	
Toluene	ND	25	ug/L	50.00	10/30/2000 19:44	
Ethyl benzene	ND	25	ug/L	50.00	10/30/2000 19:44	
Xylene(s)	ND	25	ug/L	50.00	10/30/2000 19:44	
MTBE	6100	250	ug/L	50.00	10/30/2000 19:44	
Surrogate(s)		•				
Trifluorotoluene	72.4	÷ 58-124	%	50.00	10/30/2000 19:44	
4-Bromofluorobenzene-FID	78.6	50-150	%	50.00	10/30/2000 19:44	

Printed on: 11/01/2000 17:01

Page 2 of 11

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc. Test Method:

8020

8015M

Attn.: Ian T. Reed

Prep Method:

5030

Gas/BTEX and MTBE

Sample ID:

MW-2

Lab Sample ID: 2000-10-0516-002

Project:

3406

Received:

10/25/2000 14:30

Jaber

Site:

1436 Grant Ave. San Leandro, CA Extracted:

11/01/2000 11:11

Sampled:

10/25/2000 12:15

QC-Batch:

2000/11/01-01.02

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	370	250	ug/L	5.00	11/01/2000 11:11	g
Benzene	ND	2.5	ug/L	5.00	11/01/2000 11:11	
Toluene	ND	2.5	ug/L	5.00	11/01/2000 11:11	
Ethyl benzene	ND	2.5	ug/L	5.00	11/01/2000 11:11	
Xylene(s)	ND	2.5	ug/L	5.00	11/01/2000 11:11	
MTBE	690	25	ug/L	5.00	11/01/2000 11:11	
Surrogate(s)		•				
Trifluorotoluene	103.6	58-124	%	1.00	11/01/2000 11:11	
4-Bromofluorobenzene-FID	82.4	50-150	%	1.00	11/01/2000 11:11	

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

8020 Test Method:

8015M

Attn.: Ian T. Reed

Prep Method:

5030

Gas/BTEX and MTBE

Sample ID:

MW-3

Lab Sample ID: 2000-10-0516-003

Project:

3406

Received:

10/25/2000 14:30

Jaber

Site:

1436 Grant Ave. San Leandro, CA Extracted:

10/31/2000 19:43

Sampled:

10/25/2000 13:10

QC-Batch:

2000/10/31-01.02

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	710	250	ug/L	5.00	10/31/2000 19:43	g
Benzene	180	2.5	ug/L	5.00	10/31/2000 19:43	
Toluene	ND	2.5	ug/L	5.00	10/31/2000 19:43	
Ethyl benzene	24	2.5	ug/L	5.00	10/31/2000 19:43	
Xylene(s)	ND	2.5	ug/L	5.00	10/31/2000 19:43	
MTBE	71	25	ug/L	5.00	10/31/2000 19:43	
Surrogate(s)						
Trifluorotoluene	83.6	58-124	%	1.00	10/31/2000 19:43	
4-Bromofluorobenzene-FID	78.0	50-150	%	1.00	10/31/2000 19:43	

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc. Test Method:

8015M

8020

Attn.: Ian T. Reed

Prep Method:

8021B 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank

Water

QC Batch # 2000/10/30-01.02

MB:

2000/10/30-01.02-001

Date Extracted: 10/30/2000 07:14

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/30/2000 07:14	
Benzene	ND	0.5	ug/L	10/30/2000 07:14	
Toluene	ND	0.5	ug/L	10/30/2000 07:14	
Ethyl benzene	ND	0.5	ug/L	10/30/2000 07:14	
Xylene(s)	ND	0.5	ug/L	10/30/2000 07:14	
MTBE	ND	5.0	ug/L	10/30/2000 07:14	
Surrogate(s)	•				
Trifluorotoluene	91.2	58-124	%	10/30/2000 07:14	
4-Bromofluorobenzene-FID	77.8	50-150	- %	10/30/2000 07:14	

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc. Test Method:

8015M

8020

8021B

Attn.: Ian T. Reed

Prep Method:

5030

Batch QC Report Gas/BTEX and MTBE

Method Blank

Water

QC Batch # 2000/10/31-01.02

MB:

2000/10/31-01.02-001

Date Extracted: 10/31/2000 06:41

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/31/2000 06:41	
Benzene	ND	0.5	ug/L	10/31/2000 06:41	
Toluene	ND	0.5	ug/L	10/31/2000 06:41	
Ethyl benzene	ND	0.5	ug/L	10/31/2000 06:41	
Xylene(s)	ND	0.5	ug/L	10/31/2000 06:41	
MTBE	ND	5.0	ug/L	10/31/2000 06:41	
Surrogate(s)					
Trifluorotoluene	79.8	58-124	%	10/31/2000 06:41	
4-Bromofluorobenzene-FID	80.8	50-150	%	10/31/2000 06:41	

CHROMALAB, INC. Environmental Services (SDB)

Submission #: 2000-10-0516

To: Aqua Science Engineers, Inc. Test Method:

8015M

8020 8021B

Attn.: Ian T. Reed

Prep Method:

5030

Batch QC Report Gas/BTEX and MTBE

Water Method Blank

QC Batch # 2000/11/01-01.02

MB: 2000/11/01-01.02-001 Date Extracted: 11/01/2000 05:56

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	11/01/2000 05:56	
Benzene	ND	0.5	ug/L	11/01/2000 05:56	
Toluene	ND	0.5	ug/L	11/01/2000 05:56	
Ethyl benzene	ND	0.5	ug/L	11/01/2000 05:56	
Xylene(s)	ND	0.5	ug/L	11/01/2000 05:56	
MTBE	ND	5.0	ug/L	11/01/2000 05:56	
Surrogate(s)					
Trifluorotoluene	81.6	58-124	%	11/01/2000 05:56	
4-Bromofluorobenzene-FID	82.8	50-150	%	11/01/2000 05:56	

Environmental Services (SDB)

Aqua Science Engineers, Inc.

Test Method:

8015M

8020

Submission #: 2000-10-0516

8021B

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/10/30-01.02

LCS: 2000/10

To:

Attn: Ian T. Reed

2000/10/30-01.02-002

Extracted: 10/30/2000 07:45

Analyzed

10/30/2000 07:45

LCSD:	2000/10/30-01.02-003

Extracted: 10/30/2000 08:16

Analyzed 10/30/

10/30/2000 08:16

Compound	Conc.	[ug/L]	ug/L] Exp.Conc.	[ug/L]	Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD	
Gasoline	515	499	500	500	103.0	99.8	3.2	75-125	20		
Benzene	112	109	100.0	100.0	112.0	109.0	2.7	77-123	20		
Toluene	108	104	100.0	100.0	108.0	104.0	3.8	78-122	20		
Ethyl benzene	98.9	96.4	100.0	100.0	98.9	96.4	2.6	70-130	20		
Xylene(s)	283	276	300	300	94.3	92.0	2.5	75-125	20		
Surrogate(s)]										
Trifluorotoluene	487	459	500	500	97.4	91.8		58-124			
4-Bromofluorobenzene-Fl	451	443	500	500	90.2	88.6		50-150	Ì		

Printed on: 11/01/2000 17:01

Page 8 of 11

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8

8015M

8020 8021B

Attn: Ian T. Reed

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/10/31-01.02

LCS:

2000/10/31-01.02-002

Extracted: 10/31/2000 07:12

2 Analyzed

zed 10/31/2000 07:12

LCSD: 200

2000/10/31-01.02-003

Extracted: 10/31/2000 07:43

Analyzed 10/31/2000 07:43

Compound	Conc.	[ug/L.]	Exp.Conc.	[ug/L]	Recov	ery [%]	RPD	Ctrl. Limits [%]		Flag	Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD	
Gasoline	490	499	500	500	98.0	99.8	1.8	75-125	20			
Benzene	103	102	100.0	100.0	103.0	102.0	1.0	77-123	20			
Toluene	99.7	99.8	100.0	100.0	99.7	99.8	0.1	78-122	20			
Ethyl benzene	92.3	98.6	100.0	100.0	92.3	98.6	6.6	70-130	20			
Xylene(s)	268	287	300	300	89.3	95.7	6.9	75-125	20			
Surrogate(s)	İ											
Trifluorotoluene	434	416	500	- 500	86.8	83.2		58-124		İ		
4-Bromofluorobenzene-FI	445	457	500	500	89.0	91.4		50-150	[

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8

8015M

8020

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8021B

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/11/01-01.02

LCS:

Attn: Ian T. Reed

2000/11/01-01.02-002

Extracted: 11/01/2000 06:27

Analyzed

11/01/2000 06:27

LCSD: 2000/1

2000/11/01-01.02-003

Extracted: 11/01/2000 06:58

Analyzed 11

11/01/2000 06:58

Compound	Conc. [ug/L]		Exp.Conc.	[ug/L]	Recovery [%]		RPD	Ctrl. Limits [%]		Flag	gs
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	499	518	500	500	99.8	103.6	3.7	75-125	20		
Benzene	107	102	100.0	100.0	107.0	102.0	4.8	77-123	20		
Toluene	103	97.4	100.0	100.0	103.0	97.4	5.6	78-122	20		ľ
Ethyl benzene	94.8	90.6	100.0	100.0	94.8	90.6	4.5	70-130	20		
Xylene(s)	274	264	300	300	91.3	88.0	3.7	75-125	20		
Surrogate(s)									İ		
Trifluorotoluene	440	403	500	500	88.0	80.6		58-124			
4-Bromofluorobenzene-FI	448	459	500	500	89.6	91.8		50-150	İ		

CHROMALAB, INC. Environmental Services (SDB)

Submission #: 2000-10-0516

To: Aqua Science Engineers, Inc.

Test Method: 8015M

8020

Attn: Ian T. Reed

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

CHROMALAB, INC. Environmental Services (SDB)

Total Extractable Petroleum Hydrocarbons (TEPH)

Aqua Science Engineers, Inc.

208 West El Pintado Road

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Attn: Ian T. Reed

Project #: 3406

Project: Jaber

Site:

1436 Grant Ave.

San Leandro, CA

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
MW-2	Water	10/25/2000 12:15	2

Submission #: 2000-10-0516

Environmental Services (SDB)

Aqua Science Engineers, Inc.

Test Method:

8015M

Attn.: Ian T. Reed

Prep Method:

3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

MW-2

Lab Sample ID: 2000-10-0516-002

Project:

3406

Received:

10/25/2000 14:30

Site:

Jaber

Extracted:

10/26/2000 13:25

1436 Grant Ave. San Leandro, CA

QC-Batch:

2000/10/26-03.10

Sampled: Matrix:

10/25/2000 12:15 Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel Motor Oil	ND ND	50 500	ug/L ug/L	1.00 1.00	10/28/2000 18:11 10/28/2000 18:11	
Surrogate(s)	118.0	60-130	%	1.00	10/28/2000 18:11	

Submission #: 2000-10-0516

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method:

8015M

Attn.: Ian T. Reed

Prep Method:

3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank - Water QC Batch # 2000/10/26-03.10

MB: 2000/10/26-03.10-003

Date Extracted: 10/26/2000 13:25

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel Motor Oil	ND ND	50 500	ug/L ug/L	10/28/2000 10:28 10/28/2000 10:28	
Surrogate(s) o-Terphenyl	100.0	60-130	%	10/28/2000 10:28	·

Environmental Services (SDB)

Aqua Science Engineers, Inc.

Test Method:

8015M

Prep Method:

3510/8015M

Submission #: 2000-10-0516

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2000/10/26-03.10

LCS:

Attn: Ian T. Reed

To:

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2000/10/26-03.10-001

Extracted: 10/26/2000 13:25

Analyzed

10/28/2000 11:06

LCSD:

2000/10/26-03.10-002

Extracted: 10/26/2000 13:25

Analyzed

10/28/2000 11:45

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recovery [%]		RPD	Ctrl. Limi	ts [%]	Flag	s
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1180	1150	1250	1250	94.4	92.0	2.6	60-130	25		
Surrogate(s) o-Terphenyl	25.4	24.8	20.0	20.0	127.0	124.0		60-130			

Environmental Services (SDB)

Aqua Science Engineers, Inc.

Attn.: Ian T. Reed

To:

, 41 43 ×

Test Method: 8015M

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Water

Matrix Spike (MS/MSD)

QC Batch # 2000/10/26-03.10

Submission #: 2000-10-0516

Sample ID: V-1

Lab Sample ID: 2000-10-0520-003

2000/10/26-03.10-004 Extracted: 10/26/2000 13:25 Analyzed: 10/28/2000 12:24 Dilution: 1.0 MS: MSD:

2000/10/26-03.10-005Extracted: 10/26/2000 13:25 Analyzed: 10/28/2000 13:02 Dilution: 1.0

Compound	Cona [g/L]	Exp.Conc.	[ug/L]	Recov	ery [%]	RPD	Ctrl. Limi	ts [%]	Flags		
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD	
Diesel	1250	1240	ND	1276	1250	98.0	99.2	1.2	60-130	25			
Surrogate(s) o-Terphenyl	25,1	25.3		20.0	20.0	125.5	126.5		60-130				

Printed on: 11/03/2000 17:41

Page 5 of 5

Aqua Science Engineers, Inc. 208 W. El Pintado Road Danville, CA 94526 (925) 820-9391 FAX (925) 837-4853

Chain of Custody 2000-10-0516

777 (020) 007 4000																		PAG	E	0	F	!	
SAMPLER (SIGN	(ATURE)			(PH	ONE NO.)	PROJECT NAME JABER								JOB I	JOB NO. 3406							
les.	Reg	S	(925)	820 -1 30	,		ADDRESS 1436 Grant 1						the, Son Lorenza, CA										
ANALYSIS REQUEST SPECIAL INSTRUCTIONS:				EX 20)		Oll	BONS	(Os	NICS					305 140		LVED)	Š	187					
S-day TAT				TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	REASE 520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G <u>(B</u> TEX/5 0XY'S (EPA 8260)	TPH-G/BTEX/ 7 0XY'S HVOCS (EPA 8260)			COMPOSITE		
SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GA (EPA 5C	TPH-DIE (EPA 35	TPH-DIE (EPA 35	PURGE/ (EPA 60	VOLATII (EPA 62	SEMI-Y((EPA 62	OIL & GREASE (EPA 5520) —	LUFT ME (EPA 60	CAM 17 (EPA 6(PCBs 8 (EPA 6	ORGA! PESTIC EPA 6	FUEL O (EPA 8	Pb (10 (EPA 6	TPH-G (EPA 8	TPH-G HVOCS			COMF	
14W-1	10/75	1245	mater	5	\geq	$\geq \leq$						•											
MW-1 MW-2- MW-3	11/25	1215	well	6	\geq	,	\times																
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RELINQUISHED BY 11/30 RECEIVED BY: (signature) (time) (signature)			(time)	RELINQUISHED BY:			ED BY:	(time)	(REPEIVED BY LABORATORY: (signature) (time)					COMMENTS:								
(printed name) (date) (printed name)			(date)		(print	ed name	e)	(date)		(printed name) (date						TURN AROUND TIME							
Company-	(5.54)	1.	Compar		(5.20)		-1''			(ware)			C 10.1-		Jacob	 -		TANDARD 24Hr 48Hr 72Hr					
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