



December 15, 2000

QUARTERLY GROUNDWATER MONITORING REPORT
NOVEMBER 2000 GROUNDWATER SAMPLING
ASE JOB NO. 3190

at the
Former Peerless Stages Bus Property
2021 Brush Street
Oakland, California

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

ENVIRONMENTAL
PROTECTION
00 DEC 28 PM 3:46

1.0 INTRODUCTION

The following is a report detailing the results of the November 2000 quarterly groundwater sampling at the former Peerless Stages bus company site located at 2021 Brush Street in Oakland, California (*Figure 1*).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On November 30, 2000, ASE associate geologist Ian Reed measured the depth to water in all four site groundwater monitoring wells using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons or sheen were observed in any site monitoring well. Groundwater elevation data is presented as *Table One*.

A groundwater potentiometric surface map is presented as *Figure 2*. The groundwater flow direction is to the northwest with an approximate gradient of 0.002 feet/foot.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, each monitoring well was purged of four well casing volumes of groundwater using dedicated polyethylene bailers. The parameters pH, temperature and conductivity were monitored during the well purging. Samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers.

The samples to be analyzed for volatile compounds were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid and capped without headspace. The samples to be analyzed for total petroleum hydrocarbons as diesel (TPH-D) were contained in 1-liter amber glass containers. All of the samples were labeled and placed in a cooler with wet ice for transport to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under appropriate chain-of-custody documentation. Well sampling field logs are presented in *Appendix A*.

The well purge water was placed in 55-gallon steel drums, labeled, and left on-site for temporary storage.

The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 5030/8015M, TPH-D by modified EPA Method 3510/8015M, benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) by EPA Method 8020 and methyl tertiary-butyl ether (MTBE) by EPA Method 8020. The analytical results for this and previous sampling periods are presented in *Table Two*. The certified analytical report and chain-of-custody documentation are included as *Appendix B*.

4.0 CONCLUSIONS

The groundwater samples collected from monitoring well MW-2 contained 1,200 parts per billion (ppb) TPH-D and 2,700 ppb MTBE. The laboratory noted that the TPH-D detected did not match their diesel standard. No other compounds were detected above laboratory reporting limits in any of the remaining groundwater samples collected. There appears to be a decreasing trend in MTBE concentrations in groundwater samples collected from monitoring well MW-2.

The MTBE concentration in groundwater samples collected from monitoring well MW-2 exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water.

5.0 RECOMMENDATIONS

ASE recommends that two additional borings be drilled downgradient of monitoring well MW-2 to investigate for the offsite migration of MTBE. The closest these borings could be placed is approximately 200-feet west of site in the parking lane of West Street. The boring locations are presented on *Figure 3*.

6.0 REPORT LIMITATIONS

The results presented in this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CAL-EPA certified

laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

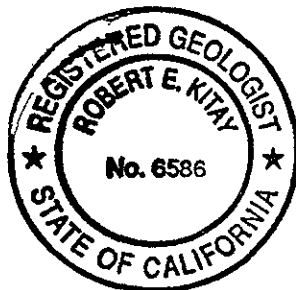
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this site and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Ian T. Reed
Associate Geologist



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

Attachments: Tables One and Two
Figures 1 through 2
Appendices A and B

cc: Mr. Alex Gaeta, Responsible Party
Mr. Gardner Kent, Property Owner
Ms. Eva Chu, ACHSA
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

TABLES

TABLE ONE
Summary of Groundwater Well Survey Data
Peerless Stages Property, Oakland, California

WELL ID	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project datum)
MW-1	8/26/99	19.66	16.44	3.22
	11/11/99		16.56	3.1
	2/16/00		13.02	6.64
	5/17/00		14.88	4.78
	8/23/00		15.86	3.80
	11/30/00		16.26	3.40
MW-2	8/26/99	20.00	16.88	3.12
	11/11/99		16.92	3.08
	2/16/00		13.76	6.24
	5/17/00		15.32	4.68
	8/23/00		15.96	4.04
	11/30/00		16.73	3.27
MW-3	8/26/99	18.91	15.94	2.97
	11/11/99		15.98	2.93
	2/16/00		12.70	6.21
	5/17/00		14.44	4.47
	8/23/00		15.33	3.58
	11/30/00		15.75	3.16
MW-4	8/26/99	19.43	16.48	2.95
	11/11/99		16.50	2.93
	2/16/00		13.19	6.24
	5/17/00		14.95	4.48
	8/23/00		15.97	3.46
	11/30/00		16.29	3.14

TABLE TWO

Summary of Chemical Analysis for Groundwater Samples
Peerless Stages Property, Oakland, California
All results are in parts per billion (ppb)

SAMPLE ID	DATE SAMPLED	TPH-G	TPH-D	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	MTBE	PNA _s	VOC _s
MW-1	8/26/99	81	<50	3.5	7.9	3.2	15	<5.0	NA	NA
	11/11/99	<50	110	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	2/16/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	5/17/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	8/23/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	11/30/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
MW-2	8/26/99	8,600	1,200*	<25	<25	<25	<25	14,000	<0.057 - <0.23	NA
	11/11/99	710	2,300*	<0.5	<0.5	<0.5	<0.5	6,200	NA	NA
	2/16/00	<50	1,500*	<0.5	<0.5	<0.5	<0.5	3,800	NA	<10 - <1,000
	5/17/00	58	1,400*	<0.5	<0.5	<0.5	<0.5	5,800	NA	NA
	8/23/00	1,300**	600*	<0.5	<0.5	<0.5	<0.5	2,000	NA	<0.5 - <50
	11/30/00	<2,500	1,200*	<0.5	<0.5	<0.5	<0.5	2,700	NA	NA
MW-3	8/26/99	<50	<63	2.5	3	0.87	4	<5.0	NA	NA
	11/11/99	<50	<56	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	2/16/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	5/17/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	8/23/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	11/30/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
MW-4	8/26/99	<50	420*	<0.5	<0.5	0.88	3.6	<5.0	NA	NA
	11/11/99	<50	120*	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	2/16/00	<50	76*	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	5/17/00	120**	130*	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	8/23/00	<50	73*	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
	11/30/00	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA
DHS MCL		NE	NE	1	150	700	1,750	13	varies	varies

Notes:

Non-Detectable concentrations are noted by a less than symbol (<) followed by the laboratory reporting limit

NE = DHS MCL not established

PNA_s = Polynuclear Aromatic Hydrocarbons

VOC_s = Volatile Organic Compounds

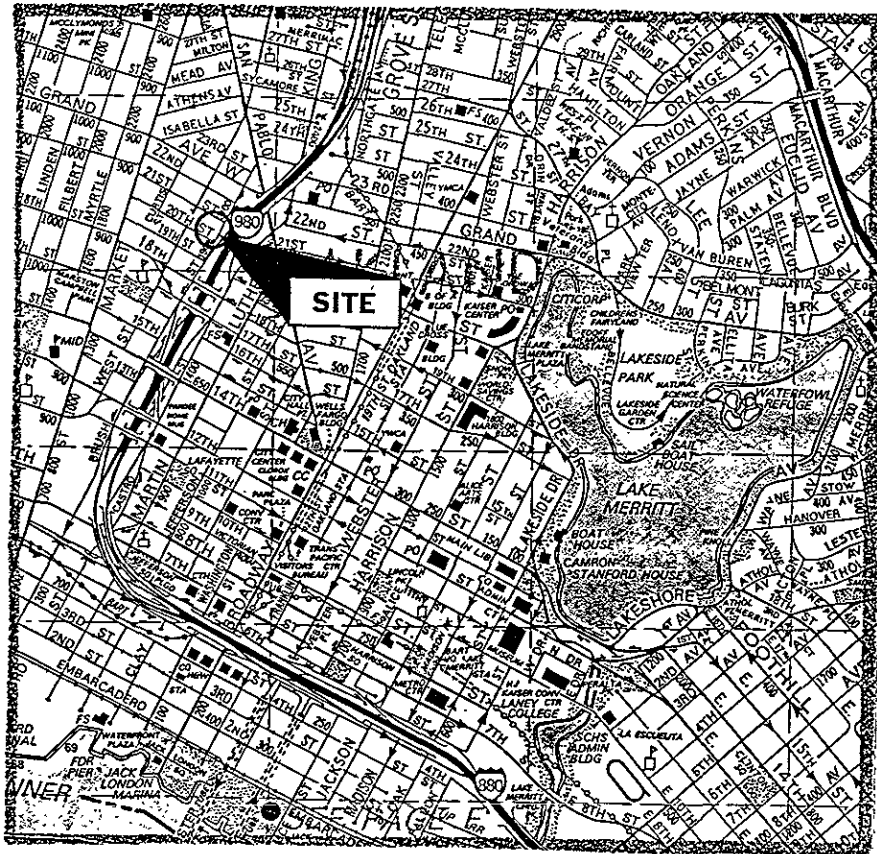
DHS MCL = Department of Health Services Maximum Contaminant Levels for drinking water

NA = Sample was not analyzed

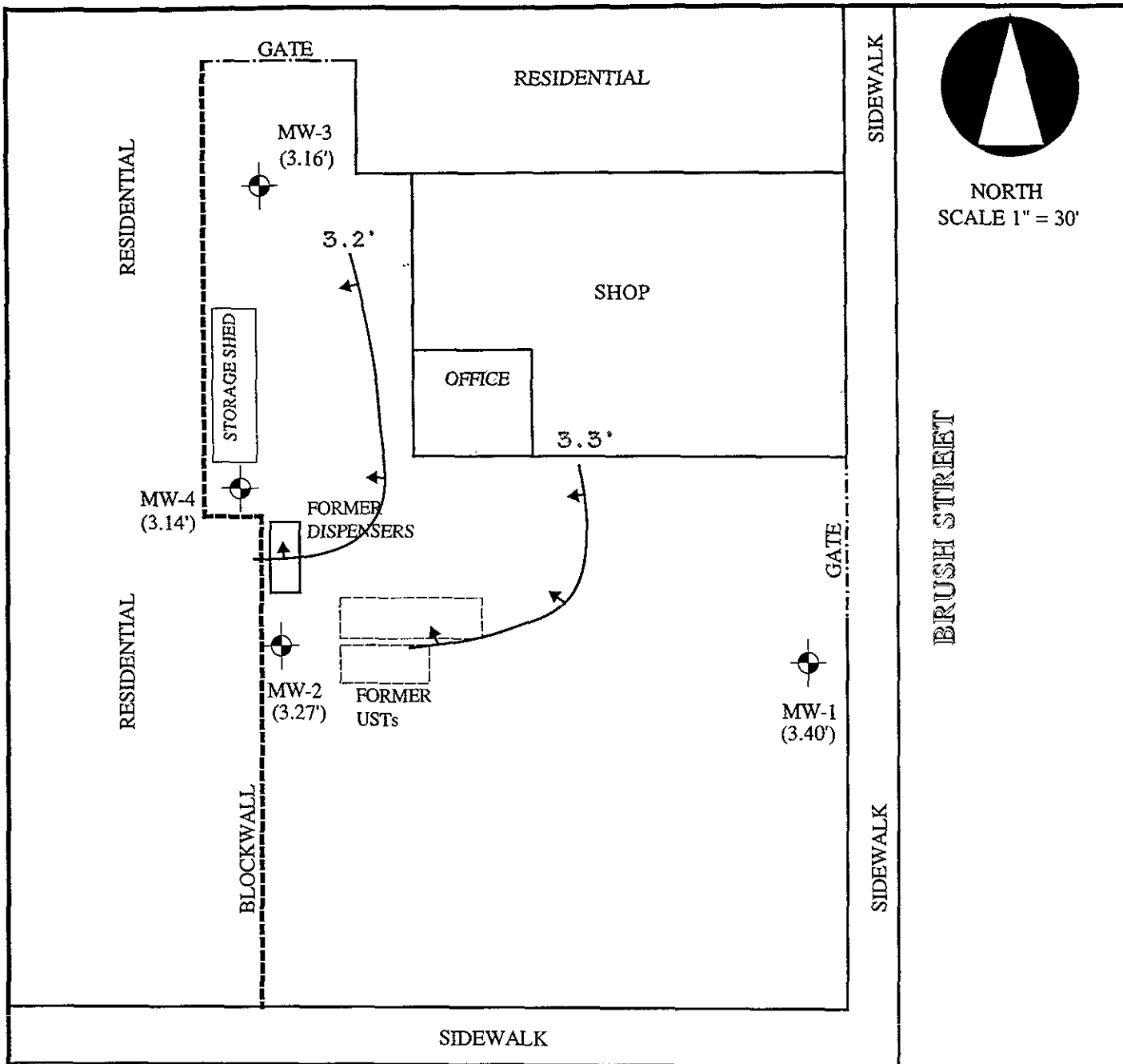
* = Hydrocarbons do not match the laboratory diesel standard

** = Hydrocarbons do not match the laboratory gasoline standard

FIGURES



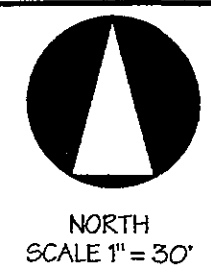
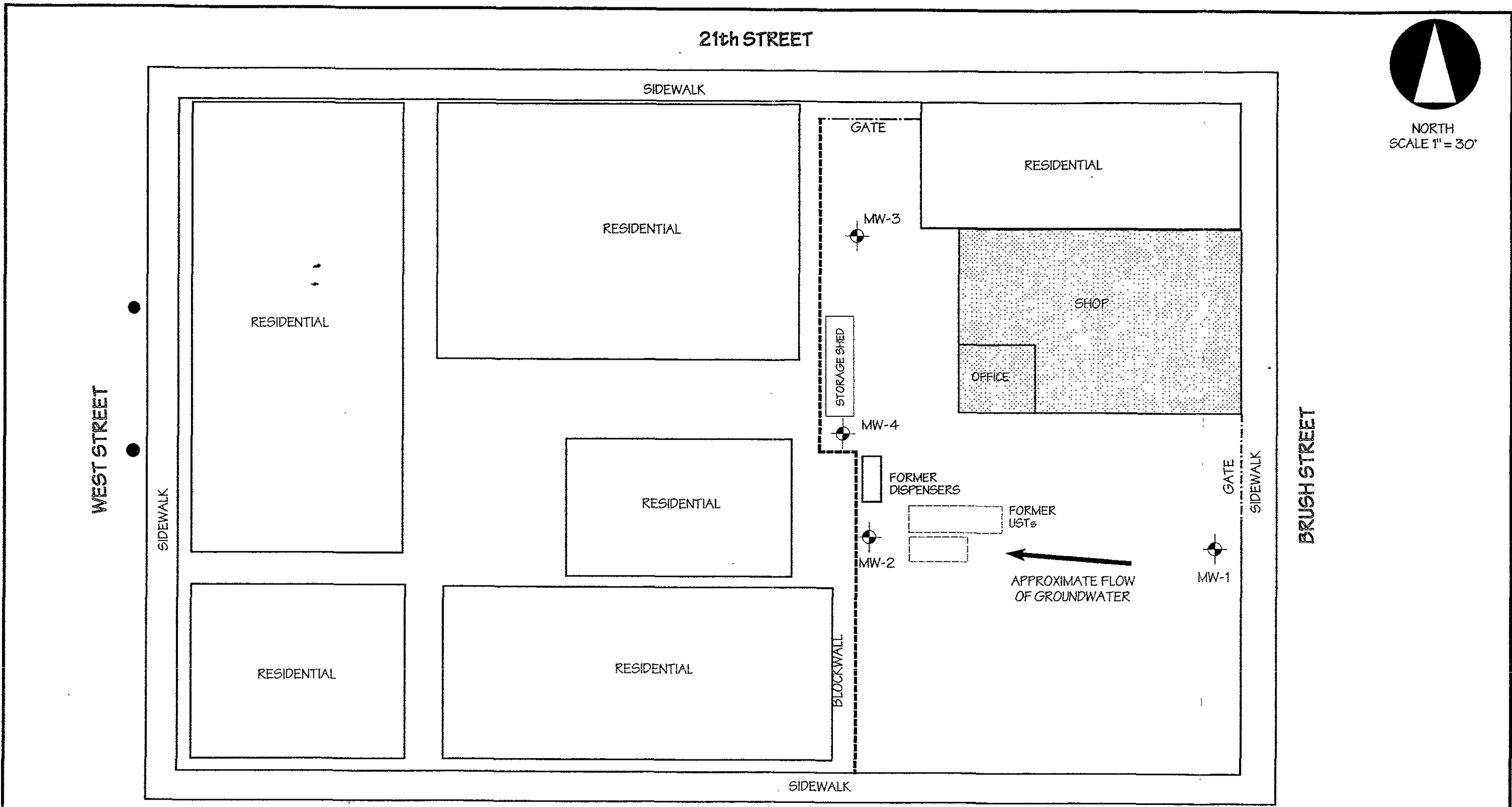
SITE LOCATION MAP	
Former Peerless Stages, Inc. Property 2021 Brush Street Oakland, California	
Aqua Science Engineers	Figure 1






20th STREET

LEGEND	
MW-4	MONITORING WELL
(3.40)	GROUNDWATER ELEVATION RELATIVE TO PROJECT DATUM
3.3'	GROUNDWATER ELEVATION CONTOUR
	FORMER UST LOCATION

GROUNDWATER ELEVATION CONTOUR MAP 11/30/00	
Former Peerless Stages, Inc. Property 2021 Brush Street Oakland, California	
AQUA SCIENCE ENGINEERS	Figure 2



LEGEND	
MW-4 	MONITORING WELL
	FORMER UST LOCATION
	PROPOSED GEOPROBE LOCATION

PROPOSED GEOPROBE LOCATION MAP

Former Peerless Stages, Inc. Property
2021 Brush Street
Oakland, California

AQUA SCIENCE ENGINEERS | Figure 3

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless Stages
 Job #: 3140 Date of sampling: 11/30/00
 Well Name: MW-1 Sampled by: TR
 Total depth of well (feet): 27.0' Well diameter (inches): 2"
 Depth to water before sampling (feet): 16.26
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 10.74
 Number of gallons per well casing volume (gallons): 1.8
 Number of well casing volumes to be removed: 9
 Req'd volume of groundwater to be purged before sampling (gallons): 7.2
 Equipment used to purge the well: dec. bailer
 Time Evacuation Began: 1110 Time Evacuation Finished: 1125
 Approximate volume of groundwater purged: 7.5
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1130
 Depth to water at time of sampling: 17.81
 Percent recovery at time of sampling: 91%
 Samples collected with: dec. bailer
 Sample color: light brown Odor: none
 Description of sediment in sample: F. silt & f. sand

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1	69.8	6.61	990
2	69.9	6.62	970
3	69.6	6.61	960
4	69.8	6.60	960

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-1	3	40ml Vial	✓	✓	
MW-1	3	1.1L		✓	

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WELL SAMPLING FIELD LOG

Project Name and Address: Perruss Stages
 Job #: 3190 Date of sampling: 11/30/00
 Well Name: MW-2 Sampled by: ITR
 Total depth of well (feet): 30.00 Well diameter (inches): 2 1/2
 Depth to water before sampling (feet): 16.73
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 13.27
 Number of gallons per well casing volume (gallons): 2.2
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 8.8
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 11:40 Time Evacuation Finished: 12:05
 Approximate volume of groundwater purged: 9
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 12:10
 Depth to water at time of sampling: 18.02
 Percent recovery at time of sampling: 92%
 Samples collected with: ded. bailer
 Sample color: gray Odor: musty
 Description of sediment in sample: f. silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>70.1</u>	<u>5.01</u>	<u>1200</u>
<u>2</u>	<u>76.2</u>	<u>5.00</u>	<u>1220</u>
<u>3</u>	<u>71.0</u>	<u>5.02</u>	<u>1210</u>
<u>4</u>	<u>71.0</u>	<u>5.02</u>	<u>1190</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-2</u>	<u>3</u>	<u>40 ml VCF</u>	<u>✓</u>	<u>✓</u>	
<u>MW 2</u>	<u>3</u>	<u>1.0 liter</u>			



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless Storage
 Job #: 3100 Date of sampling: 11/13/00
 Well Name: MW-3 Sampled by: ITZ
 Total depth of well (feet): 29.00' Well diameter (inches): 2"
 Depth to water before sampling (feet): 15.75
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 13.85'
 Number of gallons per well casing volume (gallons): 2.4
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 9.6
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 1220 Time Evacuation Finished: 1245
 Approximate volume of groundwater purged: 10
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1250
 Depth to water at time of sampling: 16.97
 Percent recovery at time of sampling: 93%
 Samples collected with: ded. bailer
 Sample color: brown Odor: none
 Description of sediment in sample: fill & R. sand

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.3</u>	<u>6.32</u>	<u>970</u>
<u>2</u>	<u>71.4</u>	<u>6.33</u>	<u>960</u>
<u>3</u>	<u>76.7</u>	<u>6.33</u>	<u>460</u>
<u>4</u>	<u>71.4</u>	<u>6.36</u>	<u>970</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>3</u>	<u>463ml WA</u>	<u>✓</u>	<u>✓</u>	
<u>MW-3</u>	<u>3</u>	<u>1-liter</u>		<u>✓</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless stages
 Job #: 3142 Date of sampling: 11/30/00
 Well Name: MW-4 Sampled by: ITR
 Total depth of well (feet): 29.64' Well diameter (inches): 2"
 Depth to water before sampling (feet): 16.29
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 13.35
 Number of gallons per well casing volume (gallons): 2.3
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 9.2
 Equipment used to purge the well: dev. bailer
 Time Evacuation Began: 1300 Time Evacuation Finished: 1325
 Approximate volume of groundwater purged: 10
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1330
 Depth to water at time of sampling: 17.81
 Percent recovery at time of sampling: 94%
 Samples collected with: dev. bailer
 Sample color: clear (brown) Odor: none
 Description of sediment in sample: fine and fine sand

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>72.3</u>	<u>6.71</u>	<u>1310</u>
<u>2</u>	<u>72.4</u>	<u>6.70</u>	<u>1320</u>
<u>3</u>	<u>72.0</u>	<u>6.70</u>	<u>1300</u>
<u>4</u>	<u>72.1</u>	<u>6.71</u>	<u>1310</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-4</u>	<u>3</u>	<u>600ml VBA</u>	<u>✓</u>	<u>✓</u>	
<u>MW-4</u>	<u>3</u>	<u>1 1.2L Amc</u>		<u>✓</u>	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

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

Attn.: Mr. Ian T. Reed

Project: 3190
Former Peerless Stages

Dear Mr. Reed,

Attached is our report for your samples received on Friday December 1, 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 January 15, 2001
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: vwancil@chromalab.com

Sincerely,



Vincent Vancil

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

Diesel

Aqua Science Engineers, Inc.	☒ 208 West El Pintado Road Danville, CA 94526
Attn: Ian T. Reed	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3190	Project: Former Peerless Stages

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/30/2000 11:30	1
MW-2	Water	11/30/2000 12:10	2
MW-3	Water	11/30/2000 12:50	3
MW-4	Water	11/30/2000 13:30	4

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID: MW-1	Lab Sample ID: 2000-12-0048-001
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 11:30	Extracted: 12/05/2000 12:25
Matrix: Water	QC-Batch: 2000/12/05-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	12/06/2000 09:39	
<i>Surrogate(s)</i> o-Terphenyl	88.2	60-130	%	1.00	12/06/2000 09:39	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID: MW-2	Lab Sample ID: 2000-12-0048-002
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 12:10	Extracted: 12/05/2000 12:25
Matrix: Water	QC-Batch: 2000/12/05-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1200	50	ug/L	1.00	12/06/2000 10:22	ndp
<i>Surrogate(s)</i> o-Terphenyl	66.2	60-130	%	1.00	12/06/2000 10:22	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.
Attn.: Ian T. Reed

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID: MW-3	Lab Sample ID: 2000-12-0048-003
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 12:50	Extracted: 12/05/2000 12:25
Matrix: Water	QC-Batch: 2000/12/05-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	12/06/2000 11:06	
<i>Surrogate(s)</i> o-Terphenyl	76.6	60-130	%	1.00	12/06/2000 11:06	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID: MW-4	Lab Sample ID: 2000-12-0048-004
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 13:30	Extracted: 12/05/2000 12:25
Matrix: Water	QC-Batch: 2000/12/05-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	12/06/2000 11:49	
<i>Surrogate(s)</i> o-Terphenyl	83.7	60-130	%	1.00	12/06/2000 11:49	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.
Attn.: Ian T. Reed

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report Diesel

Method Blank	Water	QC Batch # 2000/12/05-04.10
MB: 2000/12/05-04.10-003		Date Extracted: 12/05/2000 12:25

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/06/2000 10:38	
<i>Surrogate(s)</i> o-Terphenyl	102.0	60-130	%	12/06/2000 10:38	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn: Ian T. Reed

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/12/05-04.10
LCS: 2000/12/05-04.10-001	Extracted: 12/05/2000 12:25	Analyzed 12/06/2000 06:47
LCSD: 2000/12/05-04.10-002	Extracted: 12/05/2000 12:25	Analyzed 12/06/2000 07:30

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	1060	1080	1250	1250	84.8	86.4	1.9	60-130	25		
Surrogate(s) o-Terphenyl	19.2	19.6	20.0	20.0	96.0	98.0		60-130			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Attn: Ian T. Reed

Test Method: 8015M

Prep Method: 3510/8015M

Legend & Notes

Diesel

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

Gas/BTEX and MTBE

Aqua Science Engineers, Inc.

✉ 208 West El Pintado Road
Danville, CA 94526

Attn: Ian T. Reed

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

Project #: 3190

Project: Former Peerless Stages

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/30/2000 11:30	1
MW-2	Water	11/30/2000 12:10	2
MW-3	Water	11/30/2000 12:50	3
MW-4	Water	11/30/2000 13:30	4

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone (925) 484-1919 * Facsimile (925) 484-1096

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8020
8015M

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-1	Lab Sample ID: 2000-12-0048-001
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 11:30	Extracted: 12/05/2000 11:26
Matrix: Water	QC-Batch: 2000/12/05-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/05/2000 11:26	
Benzene	ND	0.50	ug/L	1.00	12/05/2000 11:26	
Toluene	ND	0.50	ug/L	1.00	12/05/2000 11:26	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2000 11:26	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2000 11:26	
MTBE	ND	5.0	ug/L	1.00	12/05/2000 11:26	
Surrogate(s)						
Trifluorotoluene	106.0	58-124	%	1.00	12/05/2000 11:26	
4-Bromofluorobenzene-FID	90.0	50-150	%	1.00	12/05/2000 11:26	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8020
8015M

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-3	Lab Sample ID: 2000-12-0048-003
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 12:50	Extracted: 12/05/2000 14:41
Matrix: Water	QC-Batch: 2000/12/05-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/05/2000 14:41	
Benzene	ND	0.50	ug/L	1.00	12/05/2000 14:41	
Toluene	ND	0.50	ug/L	1.00	12/05/2000 14:41	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2000 14:41	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2000 14:41	
MTBE	ND	5.0	ug/L	1.00	12/05/2000 14:41	
Surrogate(s)						
Trifluorotoluene	95.8	58-124	%	1.00	12/05/2000 14:41	
4-Bromofluorobenzene-FID	90.0	50-150	%	1.00	12/05/2000 14:41	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

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: 2000-12-0048-002
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 12:10	Extracted: 12/05/2000 14:05
Matrix: Water	QC-Batch: 2000/12/05-01.02
Sample/Analysis Flag o (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	12/05/2000 12:04	
Benzene	ND	0.50	ug/L	1.00	12/05/2000 14:05	
Toluene	ND	0.50	ug/L	1.00	12/05/2000 14:05	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2000 14:05	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2000 14:05	
MTBE	2700	250	ug/L	50.00	12/05/2000 12:04	
Surrogate(s)						
Trifluorotoluene	90.0	58-124	%	1.00	12/05/2000 14:05	
4-Bromofluorobenzene-FID	96.5	50-150	%	1.00	12/05/2000 12:04	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8020
8015M

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-3	Lab Sample ID: 2000-12-0048-003
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 12:50	Extracted: 12/05/2000 14:41
Matrix: Water	QC-Batch: 2000/12/05-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/05/2000 14:41	
Benzene	ND	0.50	ug/L	1.00	12/05/2000 14:41	
Toluene	ND	0.50	ug/L	1.00	12/05/2000 14:41	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2000 14:41	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2000 14:41	
MTBE	ND	5.0	ug/L	1.00	12/05/2000 14:41	
Surrogate(s)						
Trifluorotoluene	95.8	58-124	%	1.00	12/05/2000 14:41	
4-Bromofluorobenzene-FID	90.0	50-150	%	1.00	12/05/2000 14:41	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8020
8015M

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-4	Lab Sample ID: 2000-12-0048-004
Project: 3190 Former Peerless Stages	Received: 12/01/2000 18:20
Sampled: 11/30/2000 13:30	Extracted: 12/05/2000 15:16
Matrix: Water	QC-Batch: 2000/12/05-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/05/2000 15:16	
Benzene	ND	0.50	ug/L	1.00	12/05/2000 15:16	
Toluene	ND	0.50	ug/L	1.00	12/05/2000 15:16	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2000 15:16	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2000 15:16	
MTBE	ND	5.0	ug/L	1.00	12/05/2000 15:16	
Surrogate(s)						
Trifluorotoluene	96.5	58-124	%	1.00	12/05/2000 15:16	
4-Bromofluorobenzene-FID	90.7	50-150	%	1.00	12/05/2000 15:16	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

8020

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/12/05-01.02
MB: 2000/12/05-01.02-001		Date Extracted: 12/05/2000 06:14

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/05/2000 06:14	
Benzene	ND	0.5	ug/L	12/05/2000 06:14	
Toluene	ND	0.5	ug/L	12/05/2000 06:14	
Ethyl benzene	ND	0.5	ug/L	12/05/2000 06:14	
Xylene(s)	ND	0.5	ug/L	12/05/2000 06:14	
MTBE	ND	5.0	ug/L	12/05/2000 06:14	
Surrogate(s)					
Trifluorotoluene	90.4	58-124	%	12/05/2000 06:14	
4-Bromofluorobenzene-FID	96.6	50-150	%	12/05/2000 06:14	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn: Ian T. Reed

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/12/05-01.02
LCS: 2000/12/05-01.02-002	Extracted: 12/05/2000 06:50	Analyzed 12/05/2000 06:50
LCSD: 2000/12/05-01.02-003	Extracted: 12/05/2000 07:25	Analyzed 12/05/2000 07:25

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	552	501	500	500	110.4	100.2	9.7	75-125	20		
Benzene	106	96.4	100.0	100.0	106.0	96.4	9.5	77-123	20		
Toluene	103	96.0	100.0	100.0	103.0	96.0	7.0	78-122	20		
Ethyl benzene	93.2	86.9	100.0	100.0	93.2	86.9	7.0	70-130	20		
Xylene(s)	271	254	300	300	90.3	84.7	6.4	75-125	20		
Surrogate(s)											
Trifluorotoluene	463	414	500	500	92.6	82.8		58-124			
4-Bromofluorobenzene-FI	525	508	500	500	105.0	101.6		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0048

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn: Ian T. Reed

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analysis Flags

o

Reporting limits were raised due to high level of analyte present in the sample.

2000-12-0048

56151

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

Chain of Custody

PAGE 1 OF 1

SAMPLER (SIGNATURE) W. Reed (PHONE NO.) (925) 820-9391

PROJECT NAME Former Peerless Stages JOB NO. 3190
 ADDRESS 2021 BRUSH ST. OAKLAND CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

5-day

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	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)	OIL & GREASE (EPA 5520)	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/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / HYDGS (EPA 8260)	COMPOSITE	
MW-1	11/30	1130	water	6	X	X															
MW-2	11/30	1210	water	6	X	X															
MW-3	11/30	1250	water	6	X	X															
MW-4	11/30	1330	water	6	X	X															

RELINQUISHED BY: <u>W. Reed</u> (signature) (time)	RECEIVED BY: <u>B. Moran</u> (signature) (time) 1075	RELINQUISHED BY: <u>B. Moran</u> (signature) (time)	RECEIVED BY LABORATORY: <u>D. Harrington</u> (signature) (time)	COMMENTS TURN AROUND TIME STANDARD 24hr 48hr 72hr OTHER:
<u>W. Reed</u> (printed name) (date)	<u>B. Moran</u> (printed name) (date) 12-1-00	<u>B. Moran</u> (printed name) (date) 12-1-00	<u>D. Harrington</u> 1820 (printed name) (date)	
Company- <u>ASE</u>	Company- <u>Chromalab</u>	Company- <u>Chromalab</u>	Company- <u>Chromalab</u> 12/1/00	