TOXICHEM
Management Systems, Inc.
Environmental & Occupational Health Services
1461 Newport Avenue
San Jose, California 95125
(408) 292-3266 / Fax (408) 298-6591

Exposure Assessment/Estimation
Quantitative Risk Assessments
Industrial Hygiene
Regulatory Compliance Programs
Real Property Environmental Assessments
Compliance Audits
Air Pollution Dispersion Modeling
Hazardous Waste Management
Air Sampling and Analysis

435

January 28, 1999
Project EQ-02.1A

Mr. Barney M. Chan
Alameda County Health Care Services Agency
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Quarterly Monitoring Report - Fourth Quarter 1998**
Former Texaco Service Station
3810 Broadway, Oakland, California

Dear Mr. Chan:

On behalf of Equiva Services LLC (Equiva), this letter transmits the results of fourth quarter 1998 groundwater monitoring and sampling conducted at the site referenced above. Equiva is managing the subject site on behalf of Texaco, Inc.

If you have any questions regarding this site, please contact me at your convenience at (415) 681-8816.

Sincerely,

Toxichem Management Systems, Inc.

Keith Winemiller, P.E.
Senior Engineer

Enclosure

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, CA 90749-6249
Mr. G. Friedkin, Friedkin-Becker, 300 Grand Avenue, Oakland, CA 94610

BLAINE
TECH SERVICES inc

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

February 16, 2000

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 1999 Groundwater Monitoring at
Former Texaco Service Station
3800 Broadway
Oakland, CA

Monitoring performed on December 29, 1999 &
January 7, 2000

Groundwater Monitoring Report **991229-U-2**

This report covers the routine monitoring of groundwater wells at this Former Texaco facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS** The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jh

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Keith Winemiller
Toxichem Management Systems, Inc.
1562 44th Avenue
San Francisco, CA 94122

WELL CONCENTRATIONS
Former Texaco Service Station
3800 Broadway
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	D.O. Readings (ft.)

Notes:

* Free product could not be accurately measured (>2.0 feet of product in well).

** MTBE confirmation by 8240.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

January 19, 2000

Leah Davis
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE Equiva 3800 Broadway, Oakland/M912999

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on December 29, 1999 If you have any questions concerning this report, please feel free to contact me

Sincerely,

Kayvan Kimyai
Project Manager D M.

CA ELAP Certificate Number 1210

Sequoia Analytical

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FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number	3800 Broadway, Oakland	Received:	12/29/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported	1/19/00

ANALYTICAL REPORT FOR M912999

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-4	M912999-01	Water	1/10/00
MW-4	M912999-01	Water	12/29/99
MW-6	M912999-02	Water	1/10/00
MW-6	M912999-02	Water	12/29/99
MW-7	M912999-03	Water	1/10/00
MW-7	M912999-03	Water	12/29/99
MW-9	M912999-04	Water	1/10/00
MW-9	M912999-04	Water	12/29/99
MW-10	M912999-05	Water	1/10/00
MW-10	M912999-05	Water	12/29/99

Sequoia Analytical

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Blaine Tech Services (Shell)	Project	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number	3800 Broadway, Oakland	Received:	12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported:	1/19/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-4			**M912999-01**				**Water**	
Diesel Range Hydrocarbons	0010297	1/11/00	1/14/00		0.0500	**0.169**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*101*	%	
MW-6			**M912999-02**				**Water**	
Diesel Range Hydrocarbons	0010297	1/11/00	1/14/00		0.0500	**1.48**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*100*	%	
MW-7			**M912999-03**				**Water**	
Diesel Range Hydrocarbons	0010297	1/11/00	1/14/00		0.0500	**0.0990**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*95.4*	%	
MW-9			**M912999-04**				**Water**	
Diesel Range Hydrocarbons	0010297	1/11/00	1/14/00		0.0500	**0.0528**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*94.8*	%	
MW-10			**M912999-05**				**Water**	
Diesel Range Hydrocarbons	0010297	1/11/00	1/14/00		0.0500	**0.107**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*97.8*	%	

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Blaine Tech Services (Shell)	Project	Equiva	Sampled: 12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number	3800 Broadway, Oakland	Received: 12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported: 1/19/00

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-6			**M912999-02**				**Water**	
Ferrous Iron	0010159	1/3/00	1/5/00	EPA 6010A	0.0100	**2.30**	mg/l	
MW-7			**M912999-03**				**Water**	
Ferrous Iron	0010159	1/3/00	1/5/00	EPA 6010A	0.0100	**0.0108**	mg/l	
MW-9			**M912999-04**				**Water**	
Ferrous Iron	0010159	1/3/00	1/5/00	EPA 6010A	0.0100	**0.0200**	mg/l	

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number:	3800 Broadway, Oakland	Received: 12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported: 1/19/00

Anions by EPA Method 300.0
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-6			**M912999-02**				**Water**	
Nitrate as NO3	0010076	12/30/99	12/30/99	EPA 300.0	1.00	ND	mg/l	D
Sulfate as SO4	"	"	"	EPA 300.0	5.00	ND	"	D
MW-7			**M912999-03**				**Water**	
Nitrate as NO3	0010076	12/30/99	12/30/99	EPA 300.0	1.00	**22.3**	mg/l	D
Sulfate as SO4	"	"	"	EPA 300.0	5.00	**27.1**	"	D
MW-9			**M912999-04**				**Water**	
Nitrate as NO3	0010076	12/30/99	12/30/99	EPA 300.0	1.00	**4.81**	mg/l	D
Sulfate as SO4	"	"	"	EPA 300.0	5.00	**29.5**	"	D

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number:	3800 Broadway, Oakland	Received: 12/29/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/19/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-4			**M912999-01**				**Water**	
Purgeable Hydrocarbons as Gasoline	0010042	1/10/00	1/10/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*110*	%	
MW-6			**M912999-02**				**Water**	
Purgeable Hydrocarbons as Gasoline	0010049	1/11/00	1/11/00		5000	**14700**	ug/l	2,D
Benzene	"	"	"		50.0	**2790**	"	D
Toluene	"	"	"		50.0	**974**	"	D
Ethylbenzene	"	"	"		50.0	**469**	"	D
Xylenes (total)	"	"	"		50.0	**1720**	"	D
Methyl tert-butyl ether	"	"	"		500	ND	"	D
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*111*	%	
MW-7			**M912999-03**				**Water**	
Purgeable Hydrocarbons as Gasoline	0010049	1/11/00	1/11/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*87.4*	%	
MW-9			**M912999-04**				**Water**	
Purgeable Hydrocarbons as Gasoline	0010049	1/11/00	1/11/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*101*	%	
MW-10			**M912999-05**				**Water**	
Purgeable Hydrocarbons as Gasoline	0010049	1/11/00	1/11/00		50.0	**114**	ug/l	3
Benzene	"	"	"		0.500	**9.03**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	**0.531**	"	
Xylenes (total)	"	"	"		0.500	ND	"	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number:	3800 Broadway, Oakland	Received:	12/29/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported	1/19/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-10 (continued)			**M912999-05**				**Water**	
Methyl tert-butyl ether	0010049	1/11/00	1/11/00		5.00	ND	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*81.7*	*%*	

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number:	3800 Broadway, Oakland	Received	12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported	1/19/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov Limits	Recov %	RPD Limit	RPD %	Notes*
Batch: 0010297	**Date Prepared: 1/11/00**					**Extraction Method: EPA 3520B**				
Blank	**0010297-BLK1**									
Diesel Range Hydrocarbons	1/14/00			**ND**	mg/l	**0.0500**				
Surrogate n-Pentacosane	"	*0.100*		*0.0952*	"	*50.0-150*	*95.2*			
LCS	**0010297-BS1**									
Diesel Range Hydrocarbons	1/14/00	1.00		0.816	mg/l	60.0-140	81.6			
Surrogate n-Pentacosane	"	*0.100*		*0.0922*	"	*50.0-150*	*92.2*			
LCS Dup	**0010297-BSD1**									
Diesel Range Hydrocarbons	1/14/00	1.00		0.924	mg/l	60.0-140	92.4	50.0	12.4	
Surrogate n-Pentacosane	"	*0.100*		*0.101*	"	*50.0-150*	*101*			

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Blaine Tech Services (Shell)	Project	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number:	3800 Broadway, Oakland	Received	12/29/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported	1/19/00

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov Limits	Recov %	RPD Limit	RPD %	Notes*
Batch: 0010159	**Date Prepared: 1/3/00**					**Extraction Method: EPA 3020A**				
Blank	**0010159-BLK1**									
Ferrous Iron	1/5/00			**ND**	mg/l	**0.0100**				
LCS	**0010159-BS1**									
Ferrous Iron	1/5/00	1.00		1.00	mg/l	80.0-120	100			
Matrix Spike	**0010159-MS1**	**M912AAH-03**								
Ferrous Iron	1/5/00	1.00	0.200	1.20	mg/l	80.0-120	**100**			
Matrix Spike Dup	**0010159-MSD1**	**M912AAH-03**								
Ferrous Iron	1/5/00	1.00	0.200	1.20	mg/l	80.0-120	**100**	20.0	**0**	

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Blaine Tech Services (Shell)	Project	Equiva	Sampled	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number	3800 Broadway, Oakland	Received	12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported	1/19/00

Anions by EPA Method 300.0/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov Limits	Recov %	RPD Limit	RPD %	Notes*
Batch: 0010076	**Date Prepared: 12/30/99**					**Extraction Method: General Preparation**				
Blank	**0010076-BLK1**									
Nitrate as NO3	12/30/99			**ND**	mg/l	**0.100**				
Sulfate as SO4	"			**ND**	"	**0.500**				
LCS	**0010076-BS1**									
Nitrate as NO3	12/30/99	10.0		9.83	mg/l	80.0-120	98.3			
Sulfate as SO4	"	10.0		9.67	"	80.0-120	96.7			
Matrix Spike	**0010076-MS1**		**M912AAJ-15**							
Nitrate as NO3	12/30/99	100	6.81	106	mg/l	75.0-125	**99.2**			
Sulfate as SO4	"	100	28.7	131	"	75.0-125	**102**			
Matrix Spike Dup	**0010076-MSD1**		**M912AAJ-15**							
Nitrate as NO3	12/30/99	100	6.81	106	mg/l	75.0-125	**99.2**	20.0	**0**	
Sulfate as SO4	"	100	28.7	130	"	75.0-125	**101**	20.0	**0.985**	

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number:	3800 Broadway, Oakland	Received: 12/29/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported 1/19/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov Limits	Recov %	RPD Limit	RPD %	Notes*
Batch: 0010042	**Date Prepared: 1/10/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010042-BLK1**									
Purgeable Hydrocarbons as Gasoline	1/10/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate a,a,a-Trifluorotoluene	"	*10.0*		*10.1*	"	*70.0-130*	*101*			
LCS	**0010042-BS1**									
Benzene	1/10/00	10.0		8.63	ug/l	70.0-130	86.3			
Toluene	"	10.0		8.51	"	70.0-130	85.1			
Ethylbenzene	"	10.0		8.75	"	70.0-130	87.5			
Xylenes (total)	"	30.0		26.0	"	70.0-130	86.7			
Surrogate a,a,a-Trifluorotoluene	"	*10.0*		*10.3*	"	*70.0-130*	*103*			
LCS	**0010042-BS2**									
Purgeable Hydrocarbons as Gasoline	1/10/00	250		208	ug/l	70.0-130	83.2			
Surrogate a,a,a-Trifluorotoluene	"	*10.0*		*9.86*	"	*70.0-130*	*98.6*			
Matrix Spike	**0010042-MS1**		**M912999-01**							
Purgeable Hydrocarbons as Gasoline	1/10/00	250	ND	243	ug/l	60.0-140	**97.2**			
Surrogate a,a,a-Trifluorotoluene	"	*10.0*		*9.92*	"	*70.0-130*	*99.2*			
Matrix Spike Dup	**0010042-MSD1**		**M912999-01**							
Purgeable Hydrocarbons as Gasoline	1/10/00	250	ND	242	ug/l	60.0-140	**96.8**	25.0	**0.412**	
Surrogate a,a,a-Trifluorotoluene	"	*10.0*		*9.60*	"	*70.0-130*	*96.0*			
Batch: 0010049	**Date Prepared: 1/11/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010049-BLK1**									
Purgeable Hydrocarbons as Gasoline	1/11/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate a,a,a-Trifluorotoluene	"	*10.0*		*10.4*	"	*70.0-130*	*104*			
LCS	**0010049-BS1**									
Benzene	1/11/00	10.0		8.85	ug/l	70.0-130	88.5			
Toluene	"	10.0		8.71	"	70.0-130	87.1			

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number	3800 Broadway, Oakland	Received	12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported	1/19/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov Limits	Recov %	RPD Limit	RPD %	Notes*
LCS (continued)	**0010049-BS1**									
Ethylbenzene	1/11/00	10.0		9.02	ug/l	70.0-130	90.2			
Xylenes (total)	"	30.0		26.7	"	70.0-130	89.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.5*	"	*70.0-130*	*105*			
LCS	**0010049-BS2**									
Purgeable Hydrocarbons as Gasoline	1/11/00	250		243	ug/l	70.0-130	97.2			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.4*	"	*70.0-130*	*104*			
Matrix Spike	**0010049-MS1**		**M912999-04**							
Benzene	1/11/00	10.0	ND	8.50	ug/l	60.0-140	**85.0**			
Toluene	"	10.0	ND	8.28	"	60.0-140	**82.8**			
Ethylbenzene	"	10.0	ND	8.60	"	60.0-140	**86.0**			
Xylenes (total)	"	30.0	ND	25.5	"	60.0-140	**85.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.57*	"	*70.0-130*	*85.7*			
Matrix Spike Dup	**0010049-MSD1**		**M912999-04**							
Benzene	1/11/00	10.0	ND	7.34	ug/l	60.0-140	**73.4**	25.0	**14.6**	
Toluene	"	10.0	ND	7.17	"	60.0-140	**71.7**	25.0	**14.4**	
Ethylbenzene	"	10.0	ND	7.29	"	60.0-140	**72.9**	25.0	**16.5**	
Xylenes (total)	"	30.0	ND	21.8	"	60.0-140	**72.7**	25.0	**15.6**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.39*	"	*70.0-130*	*93.9*			

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/29/99 to 1/10/00
1680 Rogers Avenue	Project Number	3800 Broadway, Oakland	Received:	12/29/99
San Jose, CA 95112	Project Manager	Leah Davis	Reported	1/19/00

Notes and Definitions

#	Note
D	Data reported from a dilution.
1	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
2	Chromatogram Pattern: Gasoline C6-C12
3	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov	Recovery
RPD	Relative Percent Difference

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Equiva - Karen Petryna

SITE: 3800 Broadway

Oakland, CA

991229W2

LAB

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 93995026

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D			MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	Nitrate Sulfate	Ferrous Iron	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-4	12-29-99	13:44	W	1		X			X								
MW-6		14:45		2								X	X				
MW-7		11:30		3								X	X				
MW-9		12:55		4								X	X				
MW-10		12:14		5													

MA12999

SAMPLING COMPLETED	DATE	TIME
	12-29-99	1445

SAMPLING PERFORMED BY: Sanjiv

RESULTS NEEDED NO LATER THAN

RELEASED BY		DATE	TIME	RECEIVED BY	DATE / TIME
		12-29-99	16:20		12-29 1648
RELEASED BY		DATE	TIME	RECEIVED BY	DATE / TIME
					12/29 1712
RELEASED BY		DATE	TIME	RECEIVED BY	DATE / TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
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FAX (408) 782-6308

January 21, 2000

Leah Davis
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: Equiva 3800 Broadway, Oakland/M912ABI

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on December 30, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kumyai
Project Manager D.M.

CA ELAP Certificate Number 1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received:	12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	1/21/00

ANALYTICAL REPORT FOR M912ABI

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M912ABI-01	Water	12/30/99
MW-5	M912ABI-02	Water	12/30/99

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received:	12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	1/21/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**M912ABI-01**				**Water**	
Purgeable Hydrocarbons	0010152	1/6/00	1/6/00		50.0	**117**	ug/l	1
Benzene	"	"	"		0.500	**4.26**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	**1.97**	"	
Methyl tert-butyl ether	"	"	"		2.50	**26.2**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*111*	%	
MW-5			**M912ABI-02**				**Water**	
Purgeable Hydrocarbons	0010151	1/6/00	1/6/00		100	**896**	ug/l	1,D
Benzene	"	"	"		1.00	**16.6**	"	D
Toluene	"	"	"		1.00	**1.48**	"	D
Ethylbenzene	"	"	"		1.00	**8.92**	"	D
Xylenes (total)	"	"	"		1.00	**2.67**	"	D
Methyl tert-butyl ether	"	"	"		5.00	**61.1**	"	D
Surrogate a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*102*	%	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/21/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**M912ABI-01**				**Water**	
Diesel Range Hydrocarbons	0010312	1/12/00	1/13/00		0.0500	**0.345**	mg/l	2
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*95.6*	*%*	
MW-5			**M912ABI-02**				**Water**	
Diesel Range Hydrocarbons	0010312	1/12/00	1/13/00		0.0500	**0.173**	mg/l	
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*93.4*	*%*	

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received:	12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	1/21/00

MTBE by EPA Method 8260A
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**M912ABI-01**				**Water**	
Methyl tert-butyl ether	0010549	1/18/00	1/18/00		0.500	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70.0-130*		*170*	*%*	*3*
MW-5			**M912ABI-02**				**Water**	
Methyl tert-butyl ether	0010549	1/18/00	1/19/00		0.500	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70 0-130*		*174*	*%*	*3*

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/21/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0010151	**Date Prepared: 1/6/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010151-BLK1**									
Purgeable Hydrocarbons	1/6/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.300**				
Toluene	"			**ND**	"	**0.300**				
Ethylbenzene	"			**ND**	"	**0.300**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.71*	"	*70.0-130*	*97.1*			
LCS	**0010151-BS1**									
Purgeable Hydrocarbons	1/6/00	250		228	ug/l	70.0-130	91.2			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.12*	"	*70.0-130*	*91.2*			
Matrix Spike	**0010151-MS1**	**M001049-05**								
Purgeable Hydrocarbons	1/6/00	250	ND	236	ug/l	60.0-140	**94.4**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.00*	"	*70.0-130*	*90.0*			
Matrix Spike Dup	**0010151-MSD1**	**M001049-05**								
Purgeable Hydrocarbons	1/6/00	250	ND	226	ug/l	60.0-140	**90.4**	25.0	**4.33**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.65*	"	*70.0-130*	*86.5*			
Batch: 0010152	**Date Prepared: 1/6/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010152-BLK1**									
Purgeable Hydrocarbons	1/6/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.1*	"	*70.0-130*	*101*			
LCS	**0010152-BS1**									
Purgeable Hydrocarbons	1/6/00	250		254	ug/l	70.0-130	102			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*13.9*	"	*70.0-130*	*139*			*4*
Matrix Spike	**0010152-MS1**	**M912ABQ-01**								
Purgeable Hydrocarbons	1/6/00	250	ND	261	ug/l	60.0-140	**104**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*13.7*	"	*70.0-130*	*137*			*4*
Matrix Spike Dup	**0010152-MSD1**	**M912ABQ-01**								
Purgeable Hydrocarbons	1/6/00	250	ND	267	ug/l	60.0-140	**107**	25.0	**2.84**	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received:	12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	1/21/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	**0010152-MSD1**	**M912ABQ-01**								
Surrogate: a,a,a-Trifluorotoluene	*1/6/00*	*10.0*		*13.9*	*ug/l*	*70.0-130*	*139*			*4*

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/21/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov %	RPD Limit	RPD %	Notes*
Batch: 0010312	**Date Prepared: 1/12/00**					**Extraction Method: EPA 3510B**				
Blank	**0010312-BLK1**									
Diesel Range Hydrocarbons	1/13/00			**ND**	mg/l	**0.0500**				
Surrogate: n-Pentacosane	"	*0.100*		*0.0776*	"	*50.0-150*	*77.6*			
LCS	**0010312-BS1**									
Diesel Range Hydrocarbons	1/13/00	1.00		0.779	mg/l	60.0-140	77.9			
Surrogate: n-Pentacosane	"	*0.100*		*0.0854*	"	*50.0-150*	*85.4*			
LCS Dup	**0010312-BSD1**									
Diesel Range Hydrocarbons	1/13/00	1.00		0.729	mg/l	60.0-140	72.9	50.0	6.63	
Surrogate: n-Pentacosane	"	*0.100*		*0.0860*	"	*50.0-150*	*86.0*			

Sequoia Analytical

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled: 12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received: 12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 1/21/00

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0010549	**Date Prepared: 1/18/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010549-BLK1**									
Methyl tert-butyl ether	1/18/00			**ND**	ug/l	**0.500**				
Surrogate 1,2-Dichloroethane-d4	"	*10.0*		*12.1*	"	*70.0-130*	*121*			
Blank	**0010549-BLK2**									
Methyl tert-butyl ether	1/19/00			**ND**	ug/l	**0.500**				
Surrogate: 1,2-Dichloroethane-d4	"	*10.0*		*11.6*	"	*70 0-130*	*116*			
LCS	**0010549-BS1**									
Methyl tert-butyl ether	1/18/00	10.0		10.3	ug/l	70.0-130	103			
Surrogate 1,2-Dichloroethane-d4	"	*10.0*		*12.5*	"	*70.0-130*	*125*			
LCS	**0010549-BS2**									
Methyl tert-butyl ether	1/19/00	10.0		9.95	ug/l	70.0-130	99.5			
Surrogate 1,2-Dichloroethane-d4	"	*10.0*		*12 9*	"	*70.0-130*	*129*			
Matrix Spike	**0010549-MS1**		**M001089-04**							
Methyl tert-butyl ether	1/18/00	5000	8670	13500	ug/l	70.0-130	**96.6**			D
Surrogate. 1,2-Dichloroethane-d4	"	*10.0*		*12 2*	"	*70.0-130*	*122*			
Matrix Spike Dup	**0010549-MSD1**		**M001089-04**							
Methyl tert-butyl ether	1/18/00	5000	8670	13100	ug/l	70.0-130	**88.6**	25.0	**8.64**	D
Surrogate: 1,2-Dichloroethane-d4	"	*10.0*		*11.3*	"	*70 0-130*	*113*			

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Blaine Tech Services (Shell)	Project:	Equiva	Sampled:	12/30/99
1680 Rogers Avenue	Project Number:	3800 Broadway	Received:	12/30/99
San Jose, CA 95112	Project Manager:	Leah Davis	Reported:	1/21/00

Notes and Definitions

#	Note
D	Data reported from a dilution.
1	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
2	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
3	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
4	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Equiva - Karen Petryna

SITE: 3800 Broadway

Oakland, CA

991229-L42

SAMPLE I.D.		MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	12-30-99 8:50	W	5		X	X		X						
MW-5	12-30-99 9:20	W	5		X	X		X			Confirm MTBE by 8260			

LAB: SEQ DHS #:

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER M912ABI

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 93995026

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLING COMPLETED	DATE	TIME
	12-30-99	9:20

SAMPLING PERFORMED BY: Sanjiv

RESULTS NEEDED NO LATER THAN

RELEASED BY: S. Gu	DATE: 12/30/99	TIME: 16:09	RECEIVED BY: C Butler	DATE: 12-30	TIME: 16 09
RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Equiva - Karen Petryna

SITE: 3800 Broadway

Oakland, CA

99122 9-42

SAMPLE I.D.		MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010		
MW-1	12-30-99 8:50	W	5		X			X				
MW-5	12-30-99 9:20	↓	5		X			X				

LAB: _____ DHS #: _____

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 93995026

Send report to Blaine Tech Services

Attn: Ann Pember

M 8 12 A B T

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #

SAMPLING COMPLETED: DATE 12-30-99 TIME 9:20

SAMPLING PERFORMED BY: Sanjiv

RELEASED BY: _____ DATE 12/30/99 TIME 16:09 RECEIVED BY: _____ DATE 12/30 TIME 1609

RELEASED BY: _____ DATE _____ TIME _____ RECEIVED BY: _____ DATE 12/30 TIME 1900

RELEASED BY: _____ DATE _____ TIME _____ RECEIVED BY: _____ DATE _____ TIME _____

RESULTS NEEDED NO LATER THAN

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

WELL GAUGING DATA

Project # 000107R-1 Date 1-7-00 Client Equiva

Site 3800 Broadway Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-2	2	odor	22.45	.39		22.84	-		
MW-3	2	odor	19.80	.07		19.87	-		
MW-8	2	odor	20.60	.40		21.00	-		
*	Met with Service Station Systems								
	Vac. Truck to purge wells after								
	gauging SPH								

WELL GAUGING DATA

Project # 991229-42 Date 12-30-99 Client 61857107I

Site 3800 Broadway, Oakland, Ca

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					22.81	30.42	TOC	
MW-2	2		21.87	.30	—	22.17			
MW-3	2		19.21	.04	—	19.25			
MW-4	2					19.08	34.57		
MW-5	2					21.41	33.00		
MW-6	2					24.96	31.63		
MW-7	2					20.15	33.12		
MW-8	2		19.99	.26	—	20.25			
MW-9	2					18.01	33.82		
MW-10	2					18.13	32.51		

EQUIVA WELL MONITORING DATA SHEET

Project #: 991229-U2	Job # 618571071
Sampler: Sanjiv	Date: 12-30-99
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 30.42	Depth to Water: 22.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0 16	5"	1.02
3"	0.37	6"	1.47
4"	0 65	Other	radius^2 * 0 163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: (Bailer) Extraction Port / Other: _____

1.2 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 3.6 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
8:40	58.7	7.3	1109	>200	2	
8:41	60.3	6.8	1096	>200	3	
8:42	62.1	6.7	1099	>200	4	

Did well dewater? Yes (No) Gallons actually evacuated: 4

Sampling Time: 8:50 Sampling Date: 12-30-99

Sample I.D.: MW-1 Laboratory: (Sequoia) BC Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991229-42	Site: 61857107 1
Sampler: Sanjiv	Date: 12-29-99
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth:	Depth to Water: 22.17
Depth to Free Product: 21.87	Thickness of Free Product (feet): .30
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:
Bailer
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0 04	4"	0 65
2"	0.16	6"	1 47
3"	0.37	Other	radius² * 0 163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	No Bail					

Did well dewater? Yes No — Gallons actually evacuated:

Sampling Time: — Sampling Date:

Sample I.D.: — Laboratory: Sequoia Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	2.6 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 991229-U2	Site: 61857107 1
Sampler: Sanjiv	Date: 12-30-99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth:	Depth to Water: 19.25
Depth to Free Product: 19.21	Thickness of Free Product (feet): .04
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	NA	BAIL				

Did well dewater? Yes No	Gallons actually evacuated:		
Sampling Time:	Sampling Date:		
Sample I.D.:	Laboratory: Sequoia Columbia Other_____		
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:		
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):		
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:		
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 991229-L42	Job # 618571071
Sampler: Sanjiv	Date: 12-29-99
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 34.57	Depth to Water: 19.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method: (Bailer) Middleburg Electric Submersible Extraction Pump Other: _____

Sampling Method: (Bailer) Extraction Port Other: _____

2.4 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 7.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:35	66.9	7.2	426	>200	3	
13:37	67.3	7.1	424	>200	5	
13:39	67.8	7.2	431	>200	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Time: 13:44 Sampling Date: 12-29-99

Sample I.D.: MW-4 Laboratory: (Sequoia) BC Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 99129-42	Job # 618571071
Sampler: Sanjiv	Date: 12-30-99
Well I.D.: ~~MW-5~~ MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.00	Depth to Water: 21.41
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0 37	6"	1 47
4"	0.65	Other	radius^2 * 0 163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / Extraction Port / Other: ____

1.85 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
9:10	59.5	6.6	1721	>200	2	
9:11	59.1	6.5	1722	>200	4	
9:12	61.1	6.5	1707	>200	5.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 5.5	
Sampling Time: 9:20		Sampling Date: 12-30-99	
Sample I.D.: MW-5		Laboratory: (Sequoia) BC Other____	
Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:			
D.O. (if req'd):	Pre-purge: ____ mg/L	Post-purge: ____	mg/L
O.R.P. (if req'd):	Pre-purge: ____ mV	Post-purge: ____	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 991229-L2	Job # 618571071
Sampler: Sanjiv	Date: 12-29-99
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 31.63	Depth to Water: 24.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0 16	5"	1 02
3"	0 37	6"	1.47
4"	0.65	Other	radius² * 0 163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Extraction Port / Other: _____

1.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:35	65.41	6.8	1035	7200	1	
14:36	64.9	6.7	1041	7200	2	
14:37	64.4	6.6	1049	7200	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 14:45 Sampling Date: 12-29-99

Sample I.D.: MW-6 Laboratory: (Sequoia) BC Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous iron

D.O. (if req'd):	Pre-purge:	1.3 mg/L	Post-purge:	1.5 mg/L
O.R.P. (if req'd):	Pre-purge:	-163 mV	Post-purge:	-235 mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 99129-42	Job # 61857071
Sampler: Sanjiv	Date: 12-29-99
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.12	Depth to Water: 20.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: (Bailer) Extraction Port / Other: ____

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
2.0	X	3	=	6.0 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:16	62.5	8.3	626	>200	2	
11:18	62.8	7.7	557	>200	4	
11:20	61.8	7.4	563	>200	6	

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 11:30 Sampling Date: 12-29-99

Sample I.D.: MW-7 Laboratory: (Sequoia) BC Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: — Nitrate, Sulfate, Ferrous ion

D.O. (if req'd):	Pre-purge:	~~3~~ 2.3 mg/L	Post-purge:	1.8 mg/L
O.R.P. (if req'd):	Pre-purge:	-12 mV	Post-purge:	62 mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 122999-42	Job # 618571071
Sampler: Sanjiv	Date: 12-30-99
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth:	Depth to Water: 20.25
Depth to Free Product: 19.99	Thickness of Free Product (feet): .26
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0 16	5"	1.02
3"	0.37	6"	1 47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: _____

Sampling Method: Bailer, Extraction Port, Other: _____

_____ (1 Case Volume (Gals.)) X _____ (Specified Volumes) = _____ Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	NO		bail			

Did well dewater? Yes No	Gallons actually evacuated:		
Sampling Time:	Sampling Date:		
Sample I.D.:	Laboratory: Sequoia BC Other_____		
Analyzed for: TPH-G BTEX MTBE TPH-D Other:			
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 991229-42	Job # 61857071
Sampler: Sanjiv	Date: 12-29-99
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 33.82	Depth to Water: 18.01
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: (Bailer) Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: (Bailer) Extraction Port / Other: ____

2.5	X	3	=	7.5 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:45	68.7	7.4	558	>200	3	
12:47	68.0	7.3	453	>200	6	
12:49	68.2	7.3	451	>200	8	

Did well dewater? Yes (No) Gallons actually evacuated: 8

Sampling Time: ~~MW-9~~ 12:55 Sampling Date: 12-29-99

Sample I.D.: MW-9 Laboratory: (Sequoia) BC Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) ~~TPH-D~~ Other: Nitrate, Sulfate, Ferrous Iron

D.O. (if req'd):	Pre-purge:	3.3 mg/L	Post-purge:	2.7 mg/L	
O.R.P. (if req'd):	Pre-purge:	0 mV	Post-purge:	10 mV	

EQUIVA WELL MONITORING DATA SHEET

Project #: 991229-42	Job # 618571071
Sampler: Sanjiv	Date: 12-29-99
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 32.51	Depth to Water: 18.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0 37	6"	1 47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / Extraction Port / Other: ____

2.3 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 6.9 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:05	65.4	7.1	775	>200	3	
12:08	65.7	7.0	743	>200	5	
12:11	65.3	7.0	731	>200	7	

Did well dewater? Yes (No) Gallons actually evacuated: 7

Sampling Time: 12:14 Sampling Date: 12-29-99

Sample I.D.: MW-10 Laboratory: (Sequoia) BC Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV