

URS

✓ R0204

January 28, 2003

Alameda County
FEB 11 2003
Environmental Health

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Third Quarter 2002 Groundwater Monitoring Report
ARCO Service Station #4494
566 Hegenberger Road
Oakland, California
URS Project # 38465951**

Dear Ms. Chu:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2002 Groundwater Monitoring Report* for ARCO Service Station #4494, located at 566 Hegenberger Road, Oakland, California.

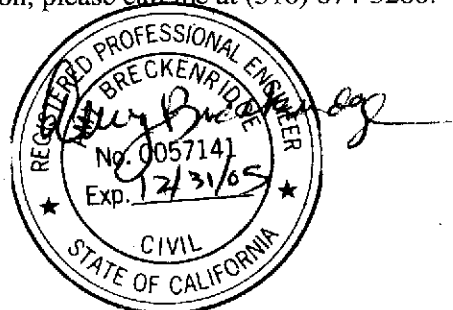
If you have any questions regarding this submission, please call me at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson

Scott Robinson
Project Manager



Amy Breckenridge, P.E.
Portfolio Manager

Enclosure: Third Quarter 2002 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, P.O. Box 6549, Moraga, CA 94570

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
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ARCO Products Company

4 Centerpointe Drive
La Palma, California 90623-1066
Telephone 714 670 5300

Mailing Address: P.O. Box 6549
Moraga, California 94549



January 31, 2003

Re: ARCO Station # 4494 • 566 Hegenberger Road • Oakland, CA
Third Quarter 2002 Quarterly Monitoring Report

"I declare, that to the best of my knowledge a the present time, that the information and/or recommendations contained in the attached proposal or report are true and correct."

Submitted by:

A handwritten signature in cursive script that reads "Paul Supple".

Paul Supple
Environmental Engineer

R E P O R T

**THIRD QUARTER 2002
GROUNDWATER MONITORING**

**ARCO SERVICE STATION # 4494
566 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

Prepared for
Atlantic Richfield Company

January 28, 2003

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38465951

Date: January 28, 2003

Quarter: 3Q 02

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 4494 Address: 566 Hegenberger Road, Oakland, California
ARCO Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation/Scott Robinson
Consultant Project No.: 38465951
Primary Agency/Regulatory ID No. ACHCS/STID #3854

WORK PERFORMED THIS QUARTER (Third - 2002):

1. Performed third quarter 2002 monitoring event.
2. Prepared second quarter 2002 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth - 2002):

1. Perform fourth quarter 2002 groundwater monitoring event.
2. Prepare third quarter 2002 groundwater monitoring report.

Current Phase of Project	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Wells MW-1, MW-3 to MW-7, RW-1 quarterly</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
FP Recovered this Quarter:	<u>None</u>
Cumulative FP Recovered to Date:	<u>0.92 feet (volume not available)</u>
Bulk Soil Removed This Quarter:	<u>350 cubic yards</u>
Bulk Soil Removed to Date:	<u>1,550 cubic yards</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>6.46 (MW-6) to 9.63 (MW-3) feet</u>
Groundwater Gradient (direction)	<u>North-Northwest</u>
Groundwater Gradient (magnitude)	<u>0.022 feet per foot</u>

DISCUSSION:

TPH-g was detected in two of the seven wells sampled this quarter at concentrations of 55 µg/L (MW-7) to 230 µg/L (MW-1). Benzene, toluene, ethylbenzene, and xylenes were not detected in any samples at or above specified laboratory method detection limits. MTBE was detected in three wells at concentrations ranging from 3.7 µg/L (RW-1) to 660 µg/L (MW-1). MTBE was confirmed in two wells using EPA Method 8260B at concentrations of 100 µg/L (MW-7) and 440 µg/L (MW-1).

ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 8, 2002
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historic Groundwater Data
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	06/20/00	106.10	7.02	99.08	<1,000	<10	<10	<10	<20	14,000/15,000 ^a
	09/28/00		7.07	99.03	<500	<5.0	<5.0	<5.0	<5.0	13000/18,800 ^a
	12/17/00		6.95	99.15	<50	<0.5	<0.5	<0.5	<0.5	10,600
	03/28/01		6.88	99.22	<500	<5.0	<5.0	<5.0	<5.0	16,900
	06/21/01		7.18	98.92	<1,000	<10	<10	<10	<10	3,400
	09/23/01		7.11	98.99	<1,000	<10	<10	<10	<10	2200/1800 ^a
	12/31/01		6.91	99.19	<5,000	<50	<50	<50	<50	14,000
	03/14/02		6.85	99.25	<5,000	<50	<50	<50	<50	6,200
	04/17/02		5.89	100.21	<5,000	<50	<50	<50	<50	4,500
	08/08/02		7.19	98.91	230 ^b	<2.0	<2.0	<2.0	<2.0	660/440 ^a
MW-3	06/20/00	106.29	9.18	97.11	<50	<0.5	<0.5	<0.5	<1.0	27/27 ^a
	09/28/00		9.33	96.96	<50	<0.5	<0.5	<0.5	<1.0	4.3/<2.0 ^a
	12/17/00		9.31	96.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/28/01		9.23	97.06	<50	<0.5	<0.5	<0.5	<0.5	7.42
	06/21/01		9.58	96.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	09/23/01		9.76	96.53	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	12/31/01		8.78	97.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/14/02		9.25	97.04	<50	<0.5	<0.5	<0.5	<0.5	4
	04/17/02		8.44	97.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	08/08/02		9.63	96.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-4	06/20/00	107.40	8.49	98.91	<50	<0.5	<0.5	<0.5	<1.0	<10
	09/28/00		8.70	98.70	<50	<0.5	<0.5	<0.5	<1.0	<2.5
	12/17/00		8.53	98.87	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/28/01		8.59	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	06/21/01		8.79	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	09/23/01		8.67	98.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	12/31/01		8.03	99.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/14/02		8.48	98.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/17/02		7.79	99.61	<50	<0.5	<0.5	<0.5	<0.5	5.6
	08/08/02		8.90	98.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-5	06/20/00	105.19	7.65	97.54	<50	<0.5	<0.5	<0.5	<1.0	<10
	09/28/00		6.82	98.37	<50	<0.5	<0.5	<0.5	<1.0	<2.5
	12/17/00		6.50	98.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/28/01		6.34	98.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	06/21/01		7.88	97.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	09/23/01		6.98	98.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	12/31/01		5.01	100.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/14/02		5.93	99.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/17/02		5.37	99.82	<50	<0.5	<0.5	<0.5	<0.5	8.5
	08/08/02		6.85	98.34	<50 ^b	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-6	06/20/00	105.07	6.24	98.83	<50	<0.5	<0.5	<0.5	<1.0	<10
	09/28/00		6.45	98.62	<50	<0.5	<0.5	<0.5	<1.0	<2.5
	12/17/00		6.26	98.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/28/01		6.10	98.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	06/21/01		7.68	97.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	09/23/01		6.72	98.35	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	12/23/01		4.68	100.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/14/02		5.55	99.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	04/17/02		4.96	100.11	<50	<0.5	<0.5	<0.5	<0.5	7
	08/08/02		6.46	98.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-7	06/20/00	105.52	8.65	96.87	<50	<0.5	<0.5	<0.5	<1.0	13/13 ^a
	09/28/00		8.75	96.77	<50	<0.5	<0.5	<0.5	<1.0	136/261 ^a
	12/17/00		8.62	96.90	<50	<0.5	<0.5	<0.5	<0.5	27.1
	03/28/01		8.66	96.86	<50	<0.5	<0.5	<0.5	<0.5	51.5
	06/21/01		8.84	96.68	<50	<0.5	<0.5	<0.5	<0.5	53
	09/23/01		8.75	96.77	<50	<0.5	<0.5	<0.5	<0.5	35/21 ^a
	12/23/01		7.79	97.73	<50	<0.5	<0.5	<0.5	<0.5	440
	03/14/02		8.30	97.22	<50	<0.5	<0.5	<0.5	<0.5	18
	04/17/02		7.43	98.09	<50	<0.5	<0.5	<0.5	<0.5	67
	08/08/02		8.61	96.91	55 ^b	<0.5	<0.5	<0.5	<0.5	130/100 ^a

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
RW-1	06/20/00	NE	8.21	NC	<50	<0.5	1.1	<0.5	<1.0	<10
	09/28/00		8.28	NC	<50	<0.5	<0.5	<0.5	<1.0	<2.5
	12/17/00		8.29	NC	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	03/28/01		8.16	NC	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	06/21/01		9.37	NC	160	5.1	<0.5	1.1	3.2	<2.5
	09/23/01		8.75	NC	57	<0.5	<0.5	<0.5	<0.5	<2.5
	12/31/01		6.80	NC	520	3.1	<0.5	6.4	4.7	<2.5
	03/14/02		7.86	NC	240	3.7	<0.5	0.7	2.8	<2.5
	04/17/02		7.13	NC	<50	<0.5	1.6	<0.5	0.72	<2.5
	08/08/02		8.48	NC	<50	<0.5	<0.5	<0.5	<0.5	3.7/<0.5 ^{a,c}

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted

µg/L = Micrograms per liter

NC = Not calculated

NE = Not surveyed/No elevation

a = Analyzed by EPA Method 8260

b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

c = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

Source: The data within this table collected prior to August 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2
Groundwater Flow Direction and Gradient

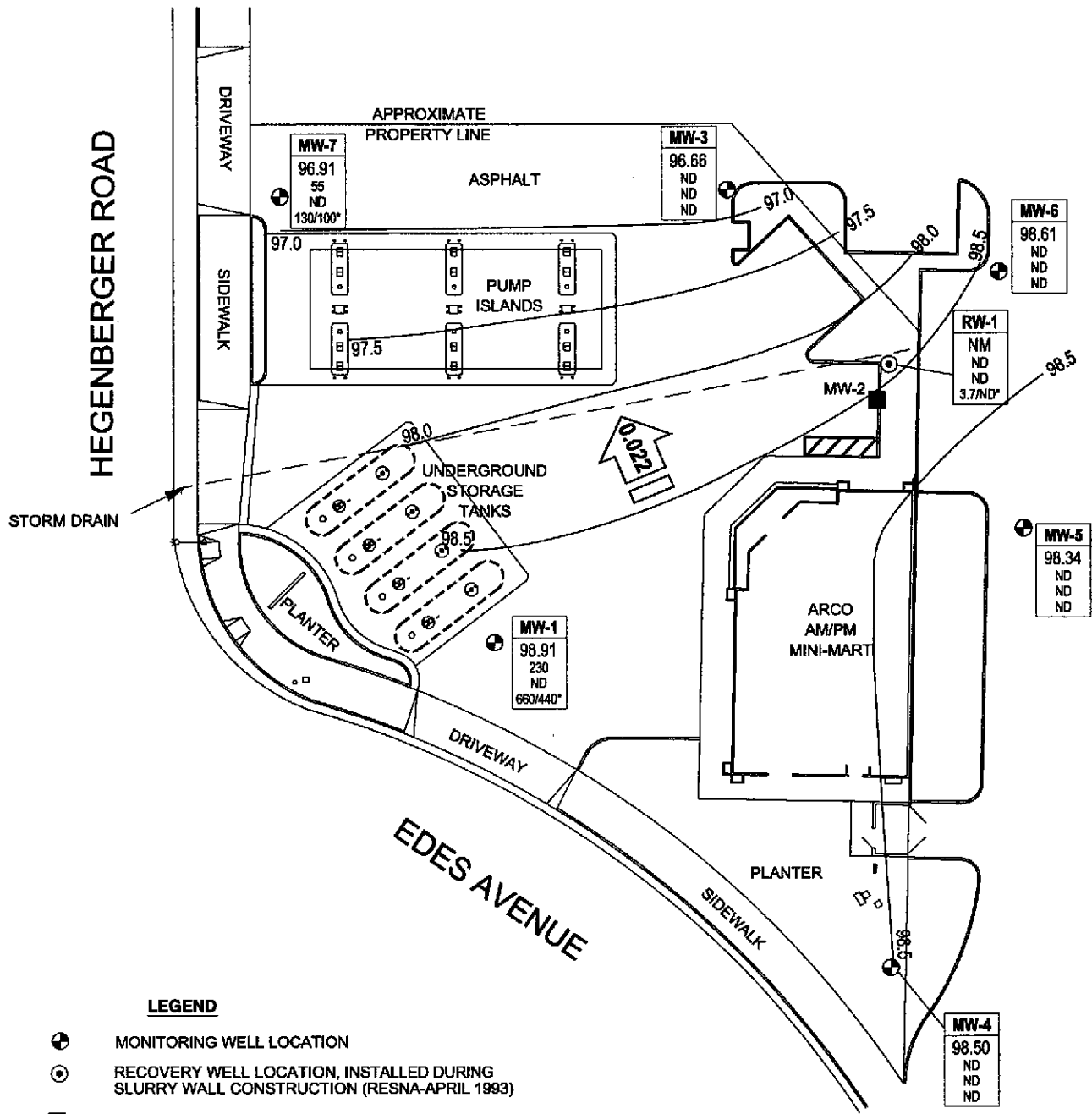
ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	North-Northeast	0.015
09/28/00	North	0.018
12/17/00	North-Northwest	0.013
03/28/01	Northwest	0.011
06/21/01	North	0.017
09/23/01	North	0.020
12/31/01	North-Northwest	0.023
03/14/02	North-Northwest	0.017
04/14/02	Northwest	0.007
08/08/02	North-Northwest	0.022

Note:

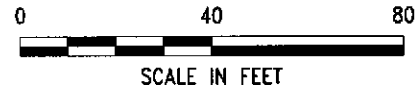
The data within this table collected prior to August 2002 was provided to URS by Group Environmental Management Company and their previous consultants. URS has not verified the accuracy of this information.

X:\env\waste\BP_GEM\Sites\Scott Robinson\Paul Supplier\4494\Reports\Monitoring\Qtr. 3, 2002\Drawings\GWEC-AS_B-8.dwg



LEGEND

- MONITORING WELL LOCATION
 - RECOVERY WELL LOCATION, INSTALLED DURING SLURRY WALL CONSTRUCTION (RESNA-APRIL 1993)
 - DESTROYED MONITORING WELL (DECEMBER 1992)
- | | |
|---------|--|
| Well | WELL DESIGNATION |
| ELEV | GROUNDWATER ELEVATION CONTOUR (FT/MSL) |
| TPH-g | CONCENTRATION OF TPH-g, BENZENE, AND MTBE IN MICROGRAMS PER LITER (µg/L) |
| Benzene | |
| MTBE | |
- * CONFIRMED BY EPA METHOD 8260
 - ND NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
 - NM NOT MEASURED
- 0.022 GROUNDWATER FLOW AND GRADIENT (FT/MSL)
- 98.0 GROUNDWATER ELEVATION CONTOUR (FT/MSL)



NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



Project No. 38465951
 Arco Service Station 4494
 566 Hegenberger Road
 Oakland, California

GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP
 Third Quarter 2002 (August 8, 2002)

FIGURE
1

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020808-BA1</u>	Station # <u>4494</u>
Sampler: <u>BRIAN ALLORN</u>	Date: <u>8/8/02</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>17.95</u>	Depth to Water: <u>9.63</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	<u>4"</u>	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: ~~Bailer~~
~~Disposable Bailer~~
~~Middleburg~~
~~Electric Submersible~~
~~Extraction Pump~~
 Other: _____

Sampling Method: Bailer
Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: NP @ 7' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

\emptyset	x	<u>3</u>	=	\emptyset	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1115</u>	<u>78.1</u>	<u>7.9</u>	<u>1506</u>	\emptyset	<u>clear yellowish</u>

Did well dewater? Yes No Gallons actually evacuated: \emptyset

Sampling Time: 1115 Sampling Date: 8/8/02

Sample I.D.: MW-3 Laboratory: Pace Sequoia Other _____

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

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020808-BA1</u>	Station # <u>4494</u>
Sampler: <u>BRIAN ALLORN</u>	Date: <u>8/8/02</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>16.62</u>	Depth to Water: <u>8.92</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: ~~Bailer
Disposable Bailer
Middleburg
Electric Submersible
Extraction Pump
Other: _____~~

Sampling Method: Bailer
Disposable Bailer
Extraction Port
Other: _____

Top of Screen: NP@ 7' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

ϕ	X	<u>3</u>	=	ϕ	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
0950	71.0	8.0	1066	ϕ	clear

Did well dewater? Yes No Gallons actually evacuated: ϕ

Sampling Time: 0950 Sampling Date: 8/8/02

Sample I.D.: MW-4 Laboratory: Pace Sequoia Other _____

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

D.O. (if req'd):	Pre-purge:	$\frac{mg}{L}$	<u>Post-purge:</u>	<u>5.4</u>	$\frac{mg}{L}$
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020808-BA1</u>	Station # <u>4494</u>
Sampler: <u>BRIAN ALLORN</u>	Date: <u>8/8/02</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>16.82</u>	Depth to Water: <u>6.85</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<u>2"</u>	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Middleburg</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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Top of Screen: N/A If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.6</u>	X	<u>3</u>	=	<u>4.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1008	75.1	7.3	14.6	1.5	clear odor
1015	72.0	7.2	12.7	3	"
1017	70.6	7.3	11.6	4.5	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>4.5</u>
Sampling Time: <u>1020</u>	Sampling Date: <u>8/8/02</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: _____	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>0.7</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020808-BA1</u>	Station # <u>4494</u>
Sampler: <u>BRIAN ALLORN</u>	Date: <u>8/8/02</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>19.07</u>	Depth to Water: <u>6.46</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<u>(2)</u>	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>(Middleburg)</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>(Disposable Bailer)</u> Extraction Port Other: _____
---	---

Top of Screen: N/A If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.9</u>	X	<u>3</u>	=	<u>5.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>μS</u>)	Gals. Removed	Observations
1043	73.4	7.7	6610	2	clear yellow-brown
1047	72.9	7.1	6091	4	"
1049	72.9	7.3	6047	6	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>6</u>
Sampling Time: <u>1055</u>	Sampling Date: <u>8/8/02</u>
Sample I.D.: <u>MW-6</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(TPH-G BTEX MTBE)</u> TPH-D Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L <u>(Post-purge: 0.7)</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020808-BA1</u>	Station # <u>4494</u>
Sampler: <u>Brian Alcorn</u>	Date: <u>8/8/02</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>13.49</u>	Depth to Water: <u>9.61</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	<u>4"</u>	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Middleburg</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> Other: _____
---	--

Top of Screen: N/A If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.2</u>	x	<u>3</u>	=	<u>9.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1134	75.8	7.4	5944	5	cloudy dark brown
1139	74.5	7.2	5445	6	"
1140	72.7	7.1	8250	9+	"

NOTE: WELL SHOULD BE HAND BAILED THOUGH I ELECTED TO USE ELECTRIC DUE TO DEDICATED TUBING IN WELL THAT WOULD HAVE COMPLICATED IT. DUE TO LOCATION IN HEAVY TRAFFIC AREA, I WAITED FOR RECHARGE AND SAMPLED SO I WOULDN'T HAVE TO RETURN LATER. FULL 3 CASE VOLUMES PURGED SO NO PARAMETERS WERE TAKEN ON SAMPLE.

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>9+</u>
Sampling Time: <u>1150</u> <u>806 = 9:59</u> <u>DTW = 9:00</u>	Sampling Date: <u>8/8/02</u>
Sample I.D.: <u>MW-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other:	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>1.1</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>020808-BA1</u>	Station # <u>4494</u>
Sampler: <u>BRIAN ALLORN</u>	Date: <u>8/8/02</u>
Well I.D.: <u>RW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>11.30</u>	Depth to Water: <u>8.48</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<u>(2)</u>	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

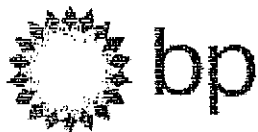
Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
--	---

Top of Screen: N/A If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>0.5</u>	x	<u>3</u>	=	<u>1.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (<u>inS</u> or μ S)	Gals. Removed	Observations
12:13	73.5	7.4	19.3	0.5	clear
12:16	72.6	7.3	20.0	1.0	"
12:18	72.4	7.0	19.8	1.5	"

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: <u>1.5</u>
Sampling Time: <u>1225</u>	Sampling Date: <u>8/8/02</u>
Sample I.D.: <u>RW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: _____	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>1.1</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 8/8/02 Requested Due Date (mm/dd/yy) Standard Turnaround

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 566 HEGENBERGER, OAKLAND, CA	Address: 500 12th St, Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 4494	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100104	Consultant/Contractor Project No.: J5-00004494.01 00427
Lab PM: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
Lab/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or <u>BP/GEM</u> (circle one)
BP/GEM Account No.:	Tele/Fax:	BP/GEM Work Release No:

Sam No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis					Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G / BTX (8015 / 8021)	TPH -D (8015)	MTBE (8021)	MTBE, TAME, ETBE DIPEL, TEA (8260)	1,2-DCA & EDB (8260)	
1	MW-1	1245	X				6				X		X					All MTBE CONFIRMATION BY 8260
2	MW-3	1115	X				6				X		X					
3	MW-4	0930	X				6				X		X					
4	MW-5	1020	X				6				X		X					
5	MW-6	1055	X				6				X		X					
6	MW-7	1150	X				6				X		X					
7	RW-1	1225	X				6				X		X					
8																		
9																		
10																		

Supplier's Name: <u>BLAINE TECH</u>	Relinquished By / Affiliation: _____	Date: <u>8/9/02</u>	Time: <u>9:40</u>	Accepted By / Affiliation: _____	Date: <u>8/9/02</u>	Time: <u>9:40</u>
Supplier's Company: <u>BLAINE TECH</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

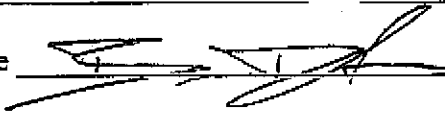
Custody Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt F/C Trip Blank Yes No

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-
HAZARDOUS PURGEWATER RECOVERED FROM
GROUNDWATER WELLS AT BP GEM OIL COMPANY
FACILITIES IN THE STATE OF CALIFORNIA. THE NON-
HAZARDOUS PURGE- WATER WHICH HAS BEEN
RECOVERED FROM GROUND- WATER WELLS IS
COLLECTED BY THE CONTRACTOR, MADE UP INTO
LOADS OF APPROPRIATE SIZE AND HAULED BY
DILLARD ENVIRONMENTAL TO THE ALTAMONT
LANDFILL AND RESOURCE RECOVERY FACILITY IN
LIVERMORE, CALIFORNIA.

The contractor performing this work is BLAINE TECH
SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA
95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is
authorized by BP GEM OIL COMPANY to recover, collect,
apportion into loads the Non-Hazardous Well Purgewater that is
drawn from wells at the BP GEM Oil Company facility indicated
below and deliver that purgewater to BTS. Transport routing of
the Non-Hazardous Well Purgewater may be direct from one BP
GEM facility to the designated destination point; from one BP
GEM facility to the designated destination point via another BP
GEM facility; from a BP GEM facility to the designated
destination point via the contractor's facility, or any combination
thereof. The Non-Hazardous Well Purgewater is and remains the
property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to
cover the recovery of Non-Hazardous Well Purgewater from wells
at the BP GEM Oil Company facility described below:

4494		
Station #		
566 McLEDBERGER RD, OAKLAND		
Station Address		
Total Gallons Collected From Groundwater Monitoring Wells:		
41		
added equip. rinse water	7	any other adjustments
TOTAL GALS. RECOVERED	48	loaded onto BTS vehicle # 14
BTS event #	020808-BA1	time date 1315 8/8/02
signature		

REC'D AT	time	date
		1/1
unloaded by signature		

ATTACHMENT B
LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals noted on the chain-of-custody using standard EPA Methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Group Environmental Management Company have been reviewed and verified by that laboratory.



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 783-6308
www.sequoiainfo.com

Scott Robinson
URS Corporation
505 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #4494, Oakland, Ca
Sequoia Report: MLHQ208

Enclosed are the results of analyses for samples received by the laboratory on 08/09/02 11:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210



**Sequoia
Analytical**

885 Tervis Drive
Morgan Hill, CA 95037
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www.sequoiainstruments.com

URS Corporation
505 12th Street, Suite 100
Oakland, CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MLH0208-01	Water	08/08/02 12:45	08/09/02 11:55
MW-3	MLH0208-02	Water	08/08/02 11:15	08/09/02 11:55
MW-4	MLH0208-03	Water	08/08/02 09:50	08/09/02 11:55
MW-5	MLH0208-04	Water	08/08/02 10:20	08/09/02 11:55
MW-6	MLH0208-05	Water	08/08/02 10:55	08/09/02 11:55
MW-7	MLH0208-06	Water	08/08/02 11:50	08/09/02 11:55
RW-1	MLE0208-07	Water	08/08/02 12:25	08/09/02 11:55

Sequoia Analytical - Morgan Hill

Laronya K. Pell

Laronya Pell, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MLH0208-01) Water Sampled: 08/08/02 12:45 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	230	200	ug/l	4	2H15001	08/15/02	08/15/02	8015Bm/8021 B	HC-12
Benzene	ND	2.0	"	"	"	"	"	"	"
Toluene	ND	2.0	"	"	"	"	"	"	"
Ethylbenzene	ND	2.0	"	"	"	"	"	"	"
Xylenes (total)	ND	2.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	660	10	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene		96.4 %	70-130	"	"	"	"	"	"
MW-3 (MLH0208-02) Water Sampled: 08/08/02 11:15 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2H13002	08/13/02	08/13/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene		91.7 %	70-130	"	"	"	"	"	"
MW-4 (MLH0208-03) Water Sampled: 08/08/02 09:50 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2H13002	08/13/02	08/13/02	8015Bm/8021 B	
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	"
Surrogate: <i>a,a,a</i> -Trifluorotoluene		89.9 %	70-130	"	"	"	"	"	"

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MLH0208-04) Water - Sampled: 08/08/02 10:20 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2H20039	08/20/02	08/20/02	8015Bm/8021	HC-12
								B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: o,o,o-Trifluorotoluene</i>		118 %	70-130		"	"	"	"	
MW-6 (MLH0208-05) Water - Sampled: 08/08/02 10:55 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2H13002	08/13/02	08/13/02	8015Bm/8021	
								B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: o,o,o-Trifluorotoluene</i>		107 %	70-130		"	"	"	"	
MW-7 (MLH0208-06) Water - Sampled: 08/08/02 11:50 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	55	50	ug/l	1	2H15001	08/15/02	08/15/02	8015Bm/8021	HC-12
								B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	130	2.5	"	"	"	"	"	"	
<i>Surrogate: o,o,o-Trifluorotoluene</i>		80.7 %	70-130		"	"	"	"	



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Area #4694, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MLH0208-07) Water Sampled: 08/08/02 12:25 Received: 08/09/02 11:55									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2H15001	08/15/02	08/15/02	8015B.m/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.7	2.5	"	"	"	"	"	"	
Surrogate: <i>p,p,p'</i> -Trifluorotoluene		84.1%	70-130	"	"	"	"	"	



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

**MTBE Confirmation by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MLH0208-01) Water Sampled: 08/08/02 12:45 Received: 08/09/02 11:55									
Methyl tert-butyl ether	440	10	ug/l	20	2H14035	08/14/02	08/15/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	60-140		"	"	"	"	
MW-7 (MLH0208-06) Water Sampled: 08/08/02 11:50 Received: 08/09/02 11:55									
Methyl tert-butyl ether	100	2.5	ug/l	5	2H14035	08/14/02	08/15/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	60-140		"	"	"	"	
RW-1 (MLH0208-07) Water Sampled: 08/08/02 12:25 Received: 08/09/02 11:55									
Methyl tert-butyl ether	ND	0.50	ug/l	1	2H23006	08/23/02	08/23/02	EPA 8260B	HT-04
Surrogate: 1,2-Dichloroethane-d4		106 %	60-140		"	"	"	"	HT-04



URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch 2H13002 - EPA 5030B (P/T)									
Blank (2H13002-BLKI)					Prepared & Analyzed: 08/13/02				
Gasoline Range Organics (C6-C10)	ND	50	ug/l						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Methyl tert-butyl ether	ND	2.5	"						
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.8		"	10.0		108		70-130	
LCS (2H13002-BS1)					Prepared & Analyzed: 08/13/02				
Benzene	10.7	0.50	ug/l	10.0		107		70-130	
Toluene	10.8	0.50	"	10.0		108		70-130	
Ethylbenzene	11.1	0.50	"	10.0		111		70-130	
Xylenes (total)	32.7	0.50	"	30.0		109		70-130	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	11.1		"	10.0		111		70-130	
LCS (2H13002-BS2)					Prepared & Analyzed: 08/13/02				
Gasoline Range Organics (C6-C10)	248	50	ug/l	250		99.2		70-130	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.9		"	10.0		109		70-130	
Matrix Spike (2H13002-MS1)					Source: MLH0208-02 Prepared & Analyzed: 08/13/02				
Gasoline Range Organics (C6-C10)	44.2	50	ug/l	55.0	ND	80.4		60-140	
Benzene	10.4	0.50	"	6.60	ND	156		60-140	QM-07
Toluene	39.2	0.50	"	39.7	ND	98.7		60-140	
Ethylbenzene	9.68	0.50	"	9.20	ND	105		60-140	
Xylenes (total)	47.1	0.50	"	46.1	ND	102		60-140	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.2		"	10.0		102		70-130	
Matrix Spike Dup (2H13002-MSD1)					Source: MLH0208-02 Prepared & Analyzed: 08/13/02				
Gasoline Range Organics (C6-C10)	428	50	ug/l	550	ND	77.8		60-140 3.22 25	
Benzene	9.90	0.50	"	6.60	ND	150		60-140 4.93 25	QM-07
Toluene	37.3	0.50	"	39.7	ND	94.0		60-140 4.97 25	
Ethylbenzene	9.04	0.50	"	9.20	ND	98.3		60-140 6.84 25	
Xylenes (total)	44.1	0.50	"	46.1	ND	95.2		60-140 6.58 25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.23		"	10.0		92.3		70-130	



URS Corporation
500 12th Street, Suite 100
Oakland, CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
Batch 2H15001 - EPA 5030B (P/T)									
Blank (2H15001-BLK1) Prepared & Analyzed: 08/15/02									
Gasoline Range Organics (C6-C10)	ND	50	ug/l						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Methyl tert-butyl ether	ND	2.5	"						
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.44		"	10.0		94.4	70-130		
LCS (2H15001-BS1) Prepared & Analyzed: 08/15/02									
Benzene	8.09	0.50	ug/l	10.0		80.9	70-130		
Toluene	8.72	0.50	"	10.0		87.2	70-130		
Ethylbenzene	8.61	0.50	"	10.0		86.1	70-130		
Xylenes (total)	27.7	0.50	"	30.0		92.3	70-130		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.93		"	10.0		89.3	70-130		
LCS (2H15001-BS2) Prepared & Analyzed: 08/15/02									
Gasoline Range Organics (C6-C10)	263	50	ug/l	250		105	70-130		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.59		"	10.0		95.9	70-130		
Matrix Spike (2H15001-MS1) Source: MLH0241-03 Prepared & Analyzed: 08/15/02									
Gasoline Range Organics (C6-C10)	423	50	ug/l	550	ND	76.9	60-140		
Benzene	7.55	0.50	"	6.60	ND	114	60-140		
Toluene	37.4	0.50	"	39.7	ND	94.2	60-140		
Ethylbenzene	8.63	0.50	"	9.20	ND	90.8	60-140		
Xylenes (total)	46.5	0.50	"	46.1	ND	101	60-140		
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.76		"	10.0		97.6	70-130		
Matrix Spike Dup (2H15001-MSD1) Source: MLH0241-03 Prepared & Analyzed: 08/15/02									
Gasoline Range Organics (C6-C10)	443	50	ug/l	550	ND	80.9	60-140	3.07	25
Benzene	7.77	0.50	"	6.60	ND	118	60-140	2.87	25
Toluene	38.0	0.50	"	39.7	ND	95.7	60-140	1.59	25
Ethylbenzene	8.76	0.50	"	9.20	ND	92.2	60-140	1.50	25
Xylenes (total)	47.4	0.50	"	46.1	ND	103	60-140	1.92	25
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.18		"	10.0		91.8	70-130		

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Oakland CA, 94607

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Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RSC Limits	RPD	RPD Limit	Notes
Batch 2H20039 - EPA 5030B [P/T]										
Blank (2H20039-BLK1) Prepared & Analyzed: 08/20/02										
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: m,m,m-Trifluorotoluene</i>	11.2		"	10.0		112	70-130			
LCS (2H20039-BS1) Prepared & Analyzed: 08/20/02										
Benzene	10.2	0.50	ug/l	10.0		102	70-130			
Toluene	10.4	0.50	"	10.0		104	70-130			
Ethylbenzene	10.4	0.50	"	10.0		104	70-130			
Xylenes (total)	31.1	0.50	"	30.0		104	70-130			
<i>Surrogate: m,m,m-Trifluorotoluene</i>	11.0		"	10.0		110	70-130			
LCS (2H20039-BS2) Prepared & Analyzed: 08/20/02										
Gasoline Range Organics (C6-C10)	261	50	ug/l	250		104	70-130			
<i>Surrogate: m,m,m-Trifluorotoluene</i>	12.2		"	10.0		122	70-130			
LCS Dup (2H20039-BSD1) Prepared: 08/20/02 Analyzed: 08/21/02										
Benzene	10.7	0.50	ug/l	10.0		107	70-130	4.78	25	
Toluene	11.0	0.50	"	10.0		110	70-130	5.61	25	
Ethylbenzene	10.9	0.50	"	10.0		109	70-130	4.69	25	
Xylenes (total)	32.4	0.50	"	30.0		108	70-130	4.09	25	
<i>Surrogate: m,m,m-Trifluorotoluene</i>	10.9		"	10.0		109	70-130			
LCS Dup (2H20039-BSD2) Prepared: 08/20/02 Analyzed: 08/21/02										
Gasoline Range Organics (C6-C10)	208	50	ug/l	250		83.2	70-130	22.6	25	
<i>Surrogate: m,m,m-Trifluorotoluene</i>	11.8		"	10.0		118	70-130			



URS Corporation
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Project: ARCO #4494, Oakland, Ca
Project Number: Area #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

**MTBE Confirmation by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%R2C	%R5C Limits	RPD	RPD Limit	Notes
Batch 2H14035 - EPA 5030B P/T										
Blank (2H14035-BLK1) Prepared: 08/14/02 Analyzed: 08/15/02										
Methyl tert-butyl ether	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	4.54		"	5.00		90.8	60-140			
LCS (2H14035-BS1) Prepared: 08/14/02 Analyzed: 08/15/02										
Methyl tert-butyl ether	8.54	0.50	ug/l	10.0		85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	4.65		"	5.00		93.0	60-140			
LCS Dup (2H14035-BSD1) Prepared: 08/14/02 Analyzed: 08/15/02										
Methyl tert-butyl ether	8.61	0.50	ug/l	10.0		86.1	70-130	0.816	25	
Surrogate: 1,2-Dichloroethane-d4	4.61		"	5.00		92.2	60-140			
Batch 2H23006 - EPA 5030B P/T										
Blank (2H23006-BLK1) Prepared & Analyzed: 08/23/02										
Methyl tert-butyl ether	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	5.28		"	5.00		106	60-140			
LCS (2H23006-BS1) Prepared & Analyzed: 08/23/02										
Methyl tert-butyl ether	8.68	0.50	ug/l	10.0		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	5.17		"	5.00		103	60-140			
LCS Dup (2H23006-BSD1) Prepared & Analyzed: 08/23/02										
Methyl tert-butyl ether	8.74	0.50	ug/l	10.0		87.4	70-130	0.689	25	
Surrogate: 1,2-Dichloroethane-d4	5.25		"	5.00		105	60-140			



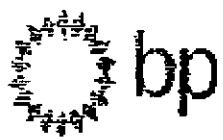
URS Corporation
500 12th Street, Suite 100
Oakland, CA, 94607

Project: ARCO #4494, Oakland, Ca
Project Number: Arco #4494, Oakland, Ca
Project Manager: Scott Robinson

Reported:
08/26/02 13:51

Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HT-04 This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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
- RPD Relative Percent Difference



Chain of Custody Record

MLH0208

Project Name: _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____
 Requested Due Date (month/days) Standard Turnaround

Date: 8/8/02

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQ/JDIA	BP/GEM Facility Address: 566 HEGENBERGER OAKLAND, CA	Address: 500 12th St, Ste. 200
Lab Address: 885 Lewis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 4494	Oakland, CA 94609-4014
	File Path: _____	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0800128104	Consultant/Contractor Project No.: JS-00004494.01 01427
Lab PM: Lalaya Patel	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3282
Tele/Fax: 408-770-8600 / 408-782-6308	Address: _____	Consultant/Contractor PM: Scott Robinson
Conf Type & QC Level: Send EDP Reports	Tele/Fax: _____	Invite to: Consultant/Contractor or (BP/GEM (see's cos))
BP/GEM Account No.:		BP/GEM Work Release No.:

Lab. No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unreserved	H ₂ SO ₄	HNO ₃	HCl	TPH (EPA) (8015/8021)	TPH -D (8015)	MTBE (8021)	MTBE, TAME, ETBE (EPA) (8260)	1,2-DCA & DCE (8260)	
1	MW-1	245	X				6			X			X	X	X			All MTBE Causative Area By 8260
2	MW-3	1115	X				6			X			X	X	X			
3	MW-4	0950	X				6			X			X	X	X			
4	MW-5	1420	X				6			X			X	X	X			
5	MW-6	1035	X				6			X			X	X	X			
6	MW-7	1150	X				6			X			X	X	X			
7	Flow	1225	X				6			X			X	X	X			
8																		
9																		
10																		

Sampler's Name: Ismael Alcaraz	Relinquished By / Affiliation: _____	Date: <u>8/9/02</u>	Title: _____	Accepted By / Affiliation: _____	Date: <u>8/9/02</u>	Time: <u>990</u>
Sampler's Company: Blumac Tech	_____					
Shipment Date:	_____					
Shipment Method:	_____					
Shipment Tracking No.:	_____					

Special Instructions: **Address Invoices to BP/GEM but send to URS for approval**

Custody Seal In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt R/C Trip Blank Yes No

11003 1111 015 908 492

ATTACHMENT C
HISTORIC GROUNDWATER DATA

Table 2
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-1	06/06/90	105.31	6.65	6.05	0.00	98.66
	08/16/90		7.00	7.00	0.00	98.31
	08/21/90		7.05	7.05	0.00	98.26
	09/07/90		7.24	7.24	0.00	98.07
	11/20/90		7.46	7.46	0.00	97.85
	11/29/90		7.40	7.40	0.00	97.91
	12/19/90		6.99	6.99	0.00	98.32
	01/29/91		7.23	7.23	0.00	98.08
	02/27/91		7.45	7.45	0.00	97.86
	03/07/91		6.96	6.96	0.00	98.35
	03/26/91		6.02	6.02	0.00	99.29
	05/02/91		7.04	7.04	0.00	98.27
	06/27/91		6.71	6.71	0.00	98.60
	07/24/91		6.91	6.91	0.00	98.40
	08/22/91		6.85	6.85	0.00	98.46
	09/30/91		7.04	7.04	0.00	98.27
	10/17/91		7.22	7.22	0.00	98.09
	11/21/91		7.17	7.17	0.00	98.14
	12/18/91		7.46	7.46	0.00	97.85
	01/19/92		7.44	7.44	0.00	97.87
	02/20/92	6.25	6.25	0.00	99.06	
	03/20/92	6.40	6.40	0.00	98.91	
	04/20/92	6.88	6.88	0.00	98.43	
	05/19/92	7.10	7.10	0.00	98.21	
	06/08/92	7.22	7.22	0.00	98.09	
	07/15/92	106.10	7.92	7.92	0.00	97.39
	08/06/92		7.29	7.29	0.00	98.81
	10/29/92		7.34	7.34	0.00	98.76
	11/23/92		8.15	8.15	0.00	97.95
	08/16/93		7.23	7.23	0.00	98.87
	11/17/93		7.51	7.51	0.00	98.59
	02/21/94		6.56	6.56	0.00	99.54
	05/11/94		6.57	6.57	0.00	99.53
08/12/94	7.12		7.12	0.00	98.98	
11/17/94	6.85		6.85	0.00	99.28	
02/22/95	7.35	7.35	0.00	98.75		
05/24/95	7.07	7.07	0.00	99.03		
08/23/95	7.10	7.10	0.00	99.00		
11/17/95	7.72	7.72	0.00	98.38		
MW-2	06/06/90	105.78	9.92*	9.00	0.92	95.86
	08/16/90		NM	NM	0.17	NM
	08/21/90		NM	NM	0.17	NM
	09/07/90		9.34*	9.17	0.17	96.44
	11/20/90		9.20*	9.2	Sheen	96.58
	11/29/90		9.92*	9.92	Sheen	95.86
	12/19/90		8.95	8.95	0/00	96.83
	01/29/91		9.01	9.01	Sheen	96.77
	02/27/91		9.14	9.14	Sheen	96.64
	03/07/91		8.94	8.94	Sheen	96.84
03/26/91	8.11	8.11	Sheen	97.67		
05/02/91	8.72	8.72	0	97.06		

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)	
MW-2	06/27/91		9.20	9.2	Sheen	96.58	
(cont.)	07/24/91		9.25	9.25	0.00	96.53	
	08/22/91		9.20	9.20	0.00	96.58	
	09/30/91		9.31	9.31	Sheen	96.47	
	10/17/91		9.39	9.39	Sheen	96.39	
	11/21/91		9.20	9.2	0	96.58	
	12/18/91		9.23	9.23	Sheen	96.55	
	01/19/92		9.96**	9.96	Skimmer	95.82	
	02/20/92		9.13**	9.13	Skimmer	96.65	
	03/20/92		9.31**	9.31	Skimmer	96.47	
	04/20/92		9.69	9.69	Skimmer	96.09	
	05/19/92		9.92	9.92	Skimmer	95.86	
	06/08/92		9.84	9.84	Skimmer	95.94	
	07/15/92		10.19	10.19	Skimmer	95.59	
	08/06/92	106.57	10.05	10.05	Skimmer	96.52	
	10/29/92		10.00	10.00	Skimmer	96.57	
	11/23/92		9.88	9.87	0.01	96.69	
	12/08/92		-----Well Destroyed-----				
MW-3	08/16/90	105.51	8.87	8.87	0.00	96.64	
	08/21/90		8.85	8.85	0.00	96.66	
	09/07/90		8.98	8.98	0.00	96.53	
	11/20/90		9.10	9.10	0.00	96.41	
	11/29/90		9.05	9.05	0.00	96.46	
	12/19/90		8.67	8.67	0.00	96.84	
	01/29/91		8.96	8.96	0.00	96.55	
	02/27/91		8.71	8.71	0.00	96.80	
	03/07/91		8.49	8.49	0.00	97.02	
	03/26/91		7.65	7.65	0.00	97.86	
	05/02/91		8.62	8.62	0.00	96.89	
	06/27/91		8.94	8.94	0.00	96.57	
	07/24/91		8.96	8.96	0.00	96.55	
	08/22/91		8.92	8.92	0.00	96.59	
	09/30/91		9.04	9.04	0.00	96.47	
	10/17/91		9.12	9.12	0.00	96.39	
	11/21/91		8.92	8.92	0.00	96.59	
	12/18/91		8.97	8.97	0.00	96.54	
	01/19/92		8.69	8.69	0.00	96.82	
	02/20/92		7.78	7.78	0.00	97.73	
	03/20/92		8.15	8.15	0.00	97.36	
	04/20/92		8.57	8.57	0.00	96.94	
	05/19/92		8.76	8.76	0.00	96.75	
	06/08/92		8.74	8.74	0.00	96.77	
	07/15/92		9.12	9.12	0.00	96.39	
	08/06/92	106.29	8.95	8.95	0.00	97.34	
	10/29/92		8.78	8.78	0.00	97.51	
	11/23/92		9.91	9.91	0.00	96.38	
	08/16/93		8.62	8.62	0.00	97.67	
	11/17/93		8.72	8.72	0.00	97.57	
	02/21/94		7.91	7.91	0.00	98.38	
	05/11/94		8.09	8.09	0.00	98.20	

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-3 (cont.)	08/12/94		8.78	8.78	0.00	97.51
	11/17/94		8.45	8.45	0.00	97.84
	02/22/95		8.95	8.95	0.00	97.34
	05/24/95		8.67	8.67	0.00	97.62
	08/23/95		9.17	9.17	0.00	97.12
	11/17/95		9.39	9.39	0.00	96.90
MW-4	08/16/90	106.61	8.16	8.16	0.00	98.45
	08/21/90		8.22	8.22	0.00	98.39
	09/07/90		8.39	8.39	0.00	98.22
	11/20/90		8.57	8.57	0.00	98.04
	11/29/90		8.53	8.53	0.00	98.08
	12/19/90		8.13	8.13	0.00	98.48
	01/29/91		8.66	8.66	0.00	97.95
	02/27/91		8.44	8.44	0.00	98.17
	03/07/91		8.18	8.18	0.00	98.43
	03/26/91		7.56	7.56	0.00	99.05
	05/02/91		8.25	8.25	0.00	98.36
	06/27/91		7.75	7.75	0.00	98.86
	07/24/91		8.12	8.12	0.00	98.49
	08/22/91		7.98	7.98	0.00	98.63
	09/30/91		8.26	8.26	0.00	98.35
	10/17/91		8.42	8.42	0.00	98.19
	11/21/91		8.65	8.65	0.00	97.96
	12/18/91		8.77	8.77	0.00	97.84
	01/19/92		8.42	8.42	0.00	98.19
	02/20/92		7.60	7.60	0.00	99.01
	03/20/92		7.61	7.61	0.00	99.00
	04/20/92		8.15	8.15	0.00	98.46
	05/19/92		8.14	8.14	0.00	98.47
	06/08/92		8.40	8.40	0.00	98.21
	07/15/92		8.72	8.72	0.00	97.89
	08/06/92	107.40	8.52	8.52	0.00	98.88
	10/29/92		8.63	8.63	0.00	98.77
	11/23/92		8.75	8.75	0.00	98.65
	08/16/93		8.69	8.69	0.00	98.71
	11/17/93		9.11	9.11	0.00	98.29
	02/21/94		8.16	8.16	0.00	99.24
	05/11/94		8.29	8.29	0.00	99.11
	08/12/94		8.75	8.75	0.00	98.65
11/17/94		8.40	8.40	0.00	99.00	
02/22/95		8.72	8.72	0.00	98.68	
05/24/95		8.63	8.63	0.00	98.77	
08/23/95		6.50	6.50	0.00	100.90	
11/17/95		9.15	9.15	0.00	98.25	
MW-5	08/06/92	105.19	7.19	7.19	0.00	98.00
	10/29/92		6.99	6.99	0.00	98.20
	11/23/92		6.90	6.90	0.00	98.29
	08/16/93		7.06	7.06	0.00	98.13
	11/17/93		6.91	6.91	0.00	98.28
	02/21/94		5.52	5.52	0.00	99.67
	05/11/94		6.18	6.18	0.00	99.01
	08/12/94		6.81	6.81	0.00	98.38
	11/17/94		5.38	5.38	0.00	99.81
	02/22/95		6.25	6.25	0.00	98.94

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)	
MW-5 (cont.)	05/24/95		6.30	6.30	0.00	98.89	
	08/23/95		6.90	6.90	0.00	98.29	
	11/17/95		7.02	7.02	0.00	98.17	
MW-6	08/06/92	105.07	7.01	7.01	0.00	98.06	
	10/29/92		6.70	6.70	0.00	98.37	
	11/23/92		6.75	6.75	0.00	98.32	
	08/16/93		6.71	6.71	0.00	98.36	
	11/17/93		6.67	6.67	0.00	98.40	
	02/21/94		5.31	5.31	0.00	99.76	
	05/11/94		5.98	5.98	0.00	99.09	
	08/12/94		6.60	6.60	0.00	98.47	
	11/17/94		5.09	5.09	0.00	99.98	
	02/22/95		5.85	5.85	0.00	99.22	
	05/24/95		5.92	5.92	0.00	99.15	
	08/23/95		6.50	6.50	0.00	98.57	
	11/17/95		6.75	6.75	0.00	98.32	
	RW-1	08/06/92	105.52	8.28	8.28	0.00	97.24
		10/29/92		8.62	8.62	0.00	96.90
11/23/92			8.21	8.21	0.00	97.31	
08/16/93			8.11	8.11	0.00	97.41	
11/17/93			8.11	8.11	0.00	97.41	
02/21/94			7.34	7.34	0.00	98.18	
05/11/94			7.45	7.45	0.00	98.07	
08/12/94			8.13	8.13	0.00	97.39	
11/17/94			7.90	7.90	0.00	97.62	
02/22/95			8.40	8.40	0.00	97.12	
05/24/95			8.29	8.29	0.00	97.23	
08/23/95			8.60	8.60	0.00	96.92	
11/17/95			8.73	8.73	0.00	96.79	
		08/16/93	NM	-----Well Dry-----			
		11/17/93		-----Well Dry-----			
	02/21/94		7.69	7.69	0.00	NM	
	05/11/94		7.96	7.96	0.00	NM	
	08/12/94		7.58	7.58	0.00	NM	
	11/17/94		7.66	7.66	0.00	NM	
	02/22/95		8.00	8.00	0.00	NM	
	05/24/95		8.10	8.10	0.00	NM	
	08/23/95		8.67	8.67	0.00	NM	
	11/17/95		9.15	9.15	0.00	NM	

MSL = Mean sea level
TOC = Top of casing
* = Separate-phase hydrocarbons present in well.
** = Skimmer installed (12/24/91).
NM = Not measured

Table 3
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-1	06/19/90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5000	
	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5000	
	11/29/90	<50	<0.50	0.7	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	06/27/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	09/30/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	12/18/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	-----Well Sampled Annually-----							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95	-----Well Sampled Annually-----								
11/17/95	-----Well Sampled Annually-----								
MW-2	06/19/90	-----0.92 foot of Separate-Phase Hydrocarbons-----							
	08/16/90	-----0.17 foot of Separate-Phase Hydrocarbons-----							
	09/07/90	-----Separate-Phase Hydrocarbons-----							
	11/29/90	-----Separate-Phase Hydrocarbons-----							
	03/07/91	-----Separate-Phase Hydrocarbons-----							
	06/27/91	-----Separate-Phase Hydrocarbons-----							
	09/30/91	-----Separate-Phase Hydrocarbons-----							
	12/18/91	-----Separate-Phase Hydrocarbons-----							
	03/20/92	48,000	2,000	580	2,300	7,000	N/A	N/A	
	06/08/92	43,000	2,900	940	240	5,100	N/A	N/A	
08/06/92	78,000	2,500	6,700	2,900	16,000	N/A	N/A		
10/29/92	NS	NS	NS	NS	NS	NS	NS		
12/08/92	-----Well Destroyed-----								
MW-3	06/19/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/16/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	09/07/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	11/29/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<30	<30	<30	<30	N/A	N/A	
	06/27/91	<30	<30	<30	<30	<30	N/A	N/A	
	09/30/91	<30	<30	<30	<30	<30	N/A	N/A	
	12/18/91	<30	<30	<30	<30	<30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	

Table 3 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-3 (cont.)	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
	11/17/95	Well Sampled Annually							
	MW-4	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A
		09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000
11/29/90		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
03/07/91		<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
06/27/91		<50	0.75	1.1	<0.30	1.6	N/A	N/A	
09/30/91		<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
12/18/91		<50	0.83	1.2	<0.30	0.58	N/A	N/A	
03/20/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
06/08/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/06/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
10/29/92		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/16/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
05/11/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/12/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/95		Well Sampled Annually							
05/24/95		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-5	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
11/17/95	Well Sampled Annually								
MW-6	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							

Table 3 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)
MW-6 (cont.)	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/23/95	-----Well Sampled Annually-----						
	11/17/95	-----Well Sampled Annually-----						
MW-7	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95	-----Well Sampled Annually-----						
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/23/95	-----Well Sampled Annually-----						
	11/17/95	-----Well Sampled Annually-----						
RW-1	08/16/93	NS	NS	NS	NS	NS	NS	NS
	11/17/93	NS	NS	NS	NS	NS	NS	NS
	02/22/94	280	2,100	19	40	66	N/A	N/A
	05/11/94	3,300	32	28	87	310	N/A	N/A
	08/12/94	4,600	42	59	190	400	N/A	N/A
	11/17/94	1,400	56	21	28	210	N/A	N/A
	02/22/95	8,100	140	<10	550	560	N/A	N/A
	05/24/95	940	53	0.75	11	1.4	N/A	N/A
	08/23/95	620	2.1	2.3	0.67	0.67	N/A	N/A
	11/17/95	1,100	7.6	21	46	180	N/A	N/A

ppb = Parts per billion
 ppm = Parts per million
 N/A = Not applicable
 NS = Not sampled

Table 4
Groundwater Analytical Data
Total Methyl t-Butyl Ether

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Sampled	Methyl t-Butyl Ether (ppb)
MW-1	08/23/95	NS
MW-2	08/23/95	NS
MW-3	08/23/95	NS
MW-4	08/23/95	NS
MW-5	08/23/95	NS
MW-6	08/23/95	NS
MW-7	08/23/95	NS
RW-1	08/23/95	13

ppb = Parts per billion
NS = Not sampled
See certified analytical report for detection limit.

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

01/08/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #4494, Oakland, Ca
Work Order Number:	MLH0208
Global ID:	T0600100104
Lab Report Number:	MLH0208082620021407

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MLH02080826200	MW-1 21407	MLH020801	W	CS	SW8020F	SW5030B	08/08/02	08/15/02	08/15/02	2H15001	1	
MLH02080826200	MW-1 21407	MLH020801	W	CS	SW8260B	SW5030B	08/08/02	08/14/02	08/15/02	2H14035	1	
MLH02080826200	MW-3 21407	MLH020802	W	CS	SW8020F	SW5030B	08/08/02	08/13/02	08/13/02	2H13002	1	
MLH02080826200	MW-4 21407	MLH020803	W	CS	SW8020F	SW5030B	08/08/02	08/13/02	08/13/02	2H13002	1	
MLH02080826200	MW-5 21407	MLH020804	W	CS	SW8020F	SW5030B	08/08/02	08/20/02	08/20/02	2H20039	1	
MLH02080826200	MW-6 21407	MLH020805	W	CS	SW8020F	SW5030B	08/08/02	08/13/02	08/13/02	2H13002	1	
MLH02080826200	MW-7 21407	MLH020806	W	CS	SW8020F	SW5030B	08/08/02	08/15/02	08/15/02	2H15001	1	
MLH02080826200	MW-7 21407	MLH020806	W	CS	SW8260B	SW5030B	08/08/02	08/14/02	08/15/02	2H14035	1	
MLH02080826200	RW-1 21407	MLH020807	W	CS	SW8020F	SW5030B	08/08/02	08/15/02	08/15/02	2H15001	1	
MLH02080826200	RW-1 21407	MLH020807	W	CS	SW8260B	SW5030B	08/08/02	08/23/02	08/23/02	2H23006	1	
		MLH024103	W	NC	SW8020F	SW5030B	//	08/15/02	08/15/02	2H15001	1	
		2H13002BS1	WQ	BS1	SW8020F	SW5030B	//	08/13/02	08/13/02	2H13002	1	
		2H13002BS2	WQ	BS2	SW8020F	SW5030B	//	08/13/02	08/13/02	2H13002	1	
		2H13002BLK1	WQ	LB1	SW8020F	SW5030B	//	08/13/02	08/13/02	2H13002	1	
		2H13002MS1	W	MS1	SW8020F	SW5030B	//	08/13/02	08/13/02	2H13002	1	
		2H13002MSD1	W	SD1	SW8020F	SW5030B	//	08/13/02	08/13/02	2H13002	1	
		2H14035BSD1	WQ	BD1	SW8260B	SW5030B	//	08/14/02	08/15/02	2H14035	1	
		2H14035BS1	WQ	BS1	SW8260B	SW5030B	//	08/14/02	08/15/02	2H14035	1	
		2H14035BLK1	WQ	LB1	SW8260B	SW5030B	//	08/14/02	08/15/02	2H14035	1	
		2H15001BS1	WQ	BS1	SW8020F	SW5030B	//	08/15/02	08/15/02	2H15001	1	
		2H15001BS2	WQ	BS2	SW8020F	SW5030B	//	08/15/02	08/15/02	2H15001	1	
		2H15001BLK1	WQ	LB1	SW8020F	SW5030B	//	08/15/02	08/15/02	2H15001	1	
		2H15001MS1	W	MS1	SW8020F	SW5030B	//	08/15/02	08/15/02	2H15001	1	
		2H15001MSD1	W	SD1	SW8020F	SW5030B	//	08/15/02	08/15/02	2H15001	1	
		2H20039BSD1	WQ	BD1	SW8020F	SW5030B	//	08/20/02	08/21/02	2H20039	1	
		2H20039BSD2	WQ	BD2	SW8020F	SW5030B	//	08/20/02	08/21/02	2H20039	1	
		2H20039BS1	WQ	BS1	SW8020F	SW5030B	//	08/20/02	08/20/02	2H20039	1	
		2H20039BS2	WQ	BS2	SW8020F	SW5030B	//	08/20/02	08/20/02	2H20039	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
		2H20039BLK1	WQ	LB1	SW8020F	SW5030B	//	08/20/02	08/20/02	2H20039	1
		2H23006BSD1	WQ	BD1	SW8260B	SW5030B	//	08/23/02	08/23/02	2H23006	1
		2H23006BS1	WQ	BS1	SW8260B	SW5030B	//	08/23/02	08/23/02	2H23006	1
		2H23006BLK1	WQ	LB1	SW8260B	SW5030B	//	08/23/02	08/23/02	2H23006	1

EDFSAMP: Error Summary Log

01/08/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

01/08/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

EDFRES: Error Summary Log

01/08/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2H13002MS1	MS1	W	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	2H13002MS1	MS1	W	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	2H13002MSD1	SD1	W	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	2H13002MSD1	SD1	W	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	2H15001MS1	MS1	W	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	2H15001MS1	MS1	W	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	2H15001MSD1	SD1	W	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	2H15001MSD1	SD1	W	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	MLH020801	CS	W	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	MLH020801	CS	W	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	MLH020801	CS	W	SW8020F	PR	08/15/02	1	MTBE
Warning: extra parameter	MLH020802	CS	W	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	MLH020802	CS	W	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	MLH020802	CS	W	SW8020F	PR	08/13/02	1	MTBE
Warning: extra parameter	MLH020803	CS	W	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	MLH020803	CS	W	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	MLH020803	CS	W	SW8020F	PR	08/13/02	1	MTBE
Warning: extra parameter	MLH020804	CS	W	SW8020F	PR	08/20/02	1	AAATFBZME
Warning: extra parameter	MLH020804	CS	W	SW8020F	PR	08/20/02	1	GROC6C10
Warning: extra parameter	MLH020804	CS	W	SW8020F	PR	08/20/02	1	MTBE
Warning: extra parameter	MLH020805	CS	W	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	MLH020805	CS	W	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	MLH020805	CS	W	SW8020F	PR	08/13/02	1	MTBE
Warning: extra parameter	MLH020806	CS	W	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	MLH020806	CS	W	SW8020F	PR	08/15/02	1	GROC6C10

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MLH020806	CS	W	SW8020F	PR	08/15/02	1	MTBE
Warning: extra parameter	MLH020807	CS	W	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	MLH020807	CS	W	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	MLH020807	CS	W	SW8020F	PR	08/15/02	1	MTBE
Warning: extra parameter	MLH024103	NC	W	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	MLH024103	NC	W	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	2H13002BLK1	LB1	WQ	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	2H13002BLK1	LB1	WQ	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	2H13002BLK1	LB1	WQ	SW8020F	PR	08/13/02	1	MTBE
Warning: extra parameter	2H13002BS1	BS1	WQ	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	2H13002BS2	BS2	WQ	SW8020F	PR	08/13/02	1	AAATFBZME
Warning: extra parameter	2H13002BS2	BS2	WQ	SW8020F	PR	08/13/02	1	GROC6C10
Warning: extra parameter	2H15001BLK1	LB1	WQ	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	2H15001BLK1	LB1	WQ	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	2H15001BLK1	LB1	WQ	SW8020F	PR	08/15/02	1	MTBE
Warning: extra parameter	2H15001BS1	BS1	WQ	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	2H15001BS2	BS2	WQ	SW8020F	PR	08/15/02	1	AAATFBZME
Warning: extra parameter	2H15001BS2	BS2	WQ	SW8020F	PR	08/15/02	1	GROC6C10
Warning: extra parameter	2H20039BLK1	LB1	WQ	SW8020F	PR	08/20/02	1	AAATFBZME
Warning: extra parameter	2H20039BLK1	LB1	WQ	SW8020F	PR	08/20/02	1	GROC6C10
Warning: extra parameter	2H20039BLK1	LB1	WQ	SW8020F	PR	08/20/02	1	MTBE
Warning: extra parameter	2H20039BS1	BS1	WQ	SW8020F	PR	08/20/02	1	AAATFBZME
Warning: extra parameter	2H20039BS2	BS2	WQ	SW8020F	PR	08/20/02	1	AAATFBZME
Warning: extra parameter	2H20039BS2	BS2	WQ	SW8020F	PR	08/20/02	1	GROC6C10
Warning: extra parameter	2H20039BSD1	BD1	WQ	SW8020F	PR	08/21/02	1	AAATFBZME
Warning: extra parameter	2H20039BSD2	BD2	WQ	SW8020F	PR	08/21/02	1	AAATFBZME
Warning: extra parameter	2H20039BSD2	BD2	WQ	SW8020F	PR	08/21/02	1	GROC6C10

EDFQC: Error Summary Log

01/08/03

Error type	Lablotctf	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

01/08/03

Error type	Crevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

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