

20-97



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
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June 18, 2004

Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Second Quarter 2004 Groundwater Monitoring Report
Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue
Oakland, California
URS Project #38486730

Alameda County
JUN 25 2004
Environmental Health



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

Submitted by:

Paul Supple
Environmental Business Manager



Alameda County

JUN 25 2004

Environmental Health

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Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Second Quarter 2004 Groundwater Monitoring Report
Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue
Oakland, California
URS Project #38486730**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2004 Groundwater Monitoring Report* for the ARCO Service Station #6148, located at 5131 Shattuck Avenue, Oakland, California.

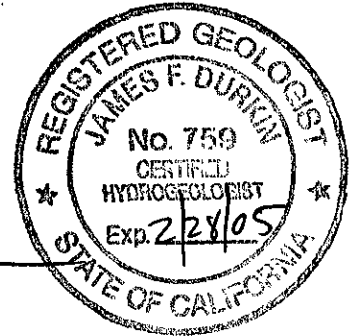
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Senior Geologist



Enclosure: Second Quarter 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

R E P O R T

**SECOND QUARTER 2004
GROUNDWATER MONITORING**

**ATLANTIC RICHFIELD COMPANY
SERVICE STATION #6148
5131 SHATTUCK AVENUE
OAKLAND, CALIFORNIA**

Prepared for
Atlantic Richfield Company

June 18, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486730

Date: June 18, 2004
Quarter: 2Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 6148 Address: 5131 Shattuck Avenue, Oakland, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486730
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Second – 2004):

1. Performed second quarter 2004 groundwater monitoring event on May 5, 2004.
2. Prepared and submitted second quarter 2004 groundwater monitoring report.
3. Replaced Oxygen Releasing Compound (ORC) socks in wells MW-2 and MW-5 on May 5, 2004.

WORK PROPOSED FOR NEXT QUARTER (Third – 2004):

1. Perform third quarter 2004 groundwater monitoring event.
2. Prepare and submit third quarter 2004 groundwater monitoring report.
3. Permanently remove ORC socks from wells MW-2 and MW-5.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly : MW-1, MW-2, MW-3, & MW-5
Semi-Annually (1st/3rd Quarter): Well MW-4
Annually (3rd Quarter): MW-6 & MW-7
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: ORC: (MW-2 and MW-5)
Previous Remediation Techniques: Soil Vapor Extraction (SVE), Air-Sparge and Air-Bubbling Systems
Bulk Soil Removed to Date: 560 cubic yards
Approximate Depth to Groundwater: 13.95 (MW-6) to 17.28 (MW-1) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.014 feet per foot

DISCUSSION:

Gasoline Range Organics (GRO) were detected above laboratory reporting limits in one of the four wells sampled this quarter at a concentration of 51 µg/L (MW-5). Benzene was not detected at or above laboratory reporting limits in any of the wells sampled. Methyl tert-butyl ether (MTBE) was detected above laboratory reporting limits in four wells at concentrations ranging from 0.60 µg/L (MW-1) to 1.3 µg/L (MW-3). No other fuel oxygenates were detected above laboratory reporting limits during this sampling event.

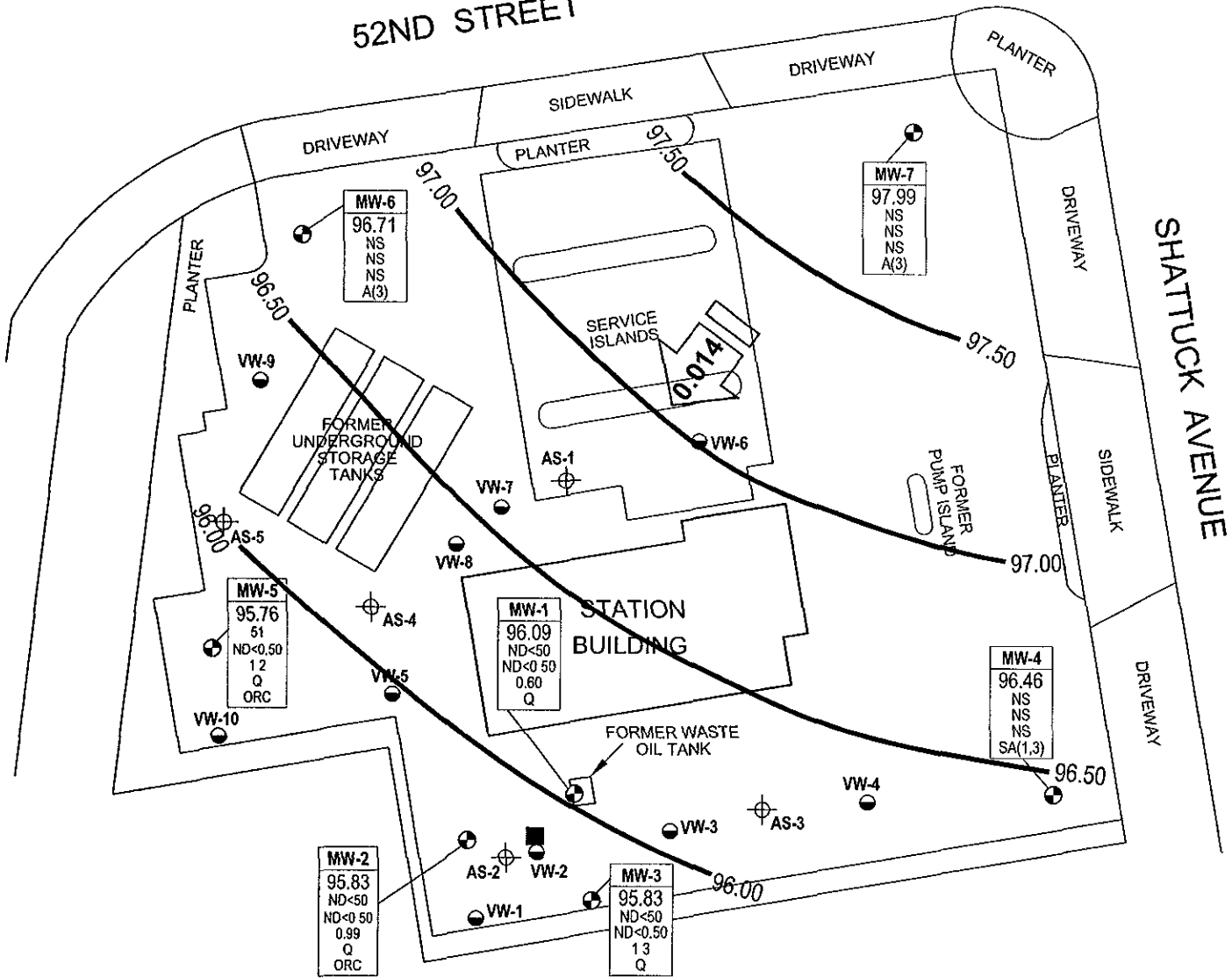
Due to low concentrations of the constituents of concern, ORC socks will be permanently removed from wells MW-2 and MW-5 during the 3rd quarter sampling event.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – May 5, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Fuel Oxygenate Analytical Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Historical Groundwater Data
- Attachment D – EDCC and EDF/Geowell Submittal Confirmation

52ND STREET

SHATTUCK AVENUE

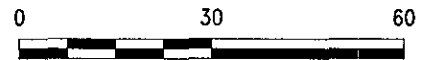


LEGEND:

- MONITORING WELL
 - AIR SPARGING WELL
 - SOIL VAPOR EXTRACTION WELL
 - DESTROYED WELL
- | Well | WELL DESIGNATION |
|---------|--|
| ELEV | GROUNDWATER ELEVATION (FT ABOVE MSL) |
| GRO | CONCENTRATION OF GRO, BENZENE AND MTBE IN GROUNDWATER (µg/L) |
| Benzene | |
| MTBE | |
| Q | SAMPLING FREQUENCY |
- A(3) SAMPLED ANNUALLY, 3RD QUARTER
 - ND< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
 - Q SAMPLED QUARTERLY
 - SA(1,3) SAMPLED SEMI-ANNUALLY, 1ST & 3RD QUARTERS
 - ORC OXYGEN RELEASING COMPOUND SOCK
 - GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
 - 97.00 — GROUNDWATER ELEVATION CONTOUR (FT ABOVE MSL)



NORTH



SCALE IN FEET

"Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported."

NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

Jun 21, 2004 - 1:28pm
 X:\env\water\BP_GEM\Site\Scott_Robinson\Paul_Supp\6148\Monitoring\Qtr_2_2004\Drawings\GWEC-AS_4-13-0148.dwg



Project No. 38486730
 Atlantic Richfield Company Service Station 6148
 5131 Shattuck Avenue
 Oakland, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
 Second Quarter 2004 (May 5, 2004)

FIGURE
 1

**Table 1
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue
Oakland, California

Well Number	Date Sampled	Purge/ Not Purge	TOC Elevation (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Well Depth (ft bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO / TPH-g ⁷ (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ⁵ (mg/L)	pH ⁵
MW-1	06/21/00		107.80	11.50	25.70	25.70	17.49	90.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<3.0	NA	NA
	09/20/00						17.64	90.16	ND<50	ND<0.5	0.677	ND<0.5	0.969	ND<2.5	NA	NA
	12/22/00						16.87	90.93	186	5.38	0.522	9.52	30.2	8.91	NA	NA
	03/26/01						16.60	91.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.1	NA	NA
	05/30/01						17.10	90.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01						17.53	90.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.7	NA	NA
	12/28/01						15.57	92.23	ND<50	2.7	ND<0.5	ND<0.5	ND<0.5	20	NA	NA
	03/21/02						15.57	92.23	NS	NS	NS	NS	NS	NS	NA	NA
	04/17/02						16.25	91.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	08/19/02						17.69	90.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	2.0	7.1
	11/27/02						17.45	90.35	ND<50	ND<0.50	1.8	0.65	3.5	1.7	1.0	6.3
	02/05/03 ⁴						16.93	90.87	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	1.2	7.3
	05/13/03	NP					16.95	90.85	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	6.5
	07/31/03	NP					17.74	90.06	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.55	1.2	6.0
	12/17/03	NP					17.03	90.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5	2.0	6.5
	02/13/04 ⁸	NP	113.37				16.85	96.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	1.0	6.4
05/05/04	NP					17.28	96.09	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.60	0.6	6.4	
MW-2	06/21/00		107.28	12.00	25.80	25.80	17.19	90.09	69	ND<0.5	ND<0.5	ND<0.5	ND<1.0	12	NA	NA
	09/20/00						17.31	89.97	ND<50	0.964	ND<0.5	ND<0.5	ND<0.5	5.05	NA	NA
	12/22/00						16.58	90.70	2,140	174	60.2	118	438	123	NA	NA
	03/26/01						16.45	90.83	8,490	333	148	495	1,660	ND<250	NA	NA
	05/30/01						16.83	90.45	4,700	200	71	260	780	43	NA	NA
	09/23/01						17.30	89.98	160	5.9	1.8	0.80	41	14	NA	NA
	12/28/01						15.38	91.90	1,800	54	ND<5.0	ND<5.0	240	30	NA	NA
	03/21/02						15.36	91.92	NS	NS	NS	NS	NS	NS	NA	NA
	04/17/02						16.01	91.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	NA	NA
	08/19/02						17.53	89.75	170 ¹	22	0.92	14	26	ND<2.5	3.0	6.9
	11/27/02						17.21	90.07	340	22	0.68	13	26	ND<0.50	1.6	6.6
	02/05/03 ⁴						16.72	90.56	83	2.7	ND<0.50	0.97	15	4.3	0.7	7.0
	05/13/03 ⁶	NP					16.72	90.56	ND<50	0.91	ND<0.50	ND<0.50	0.60	2.8	0.7	6.5
	07/31/03	NP					17.51	89.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	7.1	6.7
	12/17/03	NP					16.78	90.50	51	1.0	ND<0.50	ND<0.50	ND<0.50	2.4	8.1	7.1
	02/13/04 ⁸	NP	112.87				16.63	96.24	50	0.70	ND<0.50	0.54	0.90	1.6	5.6	6.7
05/05/04	NP					17.04	95.83	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.99	4.3	6.9	

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5131 Shattuck Avenue
Oakland, California

Well Number	Date Sampled	Purge/ Not Purge	TOC Elevation (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Well Depth (ft bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO / TPH-g ⁷ (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ⁵ (mg/L)	pH ⁵
MW-3	06/21/00		107.61	10.00	25.90	25.90	17.52	90.09	200	ND<0.5	ND<0.5	ND<0.5	2.1	24	NA	NA
	09/20/00						17.61	90.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	20	NA	NA
	12/22/00						16.85	90.76	227	4.73	1.06	2.58	5.22	27.3	NA	NA
	03/26/01						16.79	90.82	287	6.29	1.58	6.47	12.1	24.2	NA	NA
	05/30/01						17.11	90.50	500	10	ND<0.5	7.00	16	20	NA	NA
	09/23/01						17.57	90.04	400	6.4	0.74	ND<0.5	0.62	22	NA	NA
	12/28/01						15.41	92.20	270	2.5	2.4	ND<0.5	2.3	9.2	NA	NA
	03/21/02						15.58	92.03	NS	NS	NS	NS	NS	NS	NA	NA
	04/17/02						16.25	91.36	360	2.5	0.72	ND<0.5	ND<0.5	12	NA	NA
	08/19/02						17.66	89.95	750 ²	11	2.1	ND<0.5	2.4	14	1.4	6.8
	11/27/02						17.69	89.92	470	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	6.6
	02/05/03 ⁴						16.82	90.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	1.3	6.6
	05/13/03	NP					17.12	90.49	300	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	1.4	6.7
	07/31/03	NP					17.72	89.89	320	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	1.4	6.8
	07/31/03	NP					16.95	90.66	340	0.51	ND<0.50	ND<0.50	ND<0.50	4.8	1.3	6.7
	07/31/03	NP					16.95	90.66	340	0.51	ND<0.50	ND<0.50	ND<0.50	4.8	1.3	6.7
	02/13/04 ⁸	NP	113.05				16.77	96.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	2.1	7.1
05/05/04	NP					17.22	95.83	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3	1.2	6.9	
MW-4	06/21/00		106.71	13.00	26.00	26.00	16.00	90.71	1,400	5.3	7.3	36	85	4	NA	NA
	09/20/00						16.03	90.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/22/00						NM	NC	NS	NS	NS	NS	NS	NS	NS	NS
	03/26/01						15.05	91.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	05/30/01						15.62	91.09	NS	NS	NS	NS	NS	NS	NS	NS
	09/23/01						16.07	90.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/28/01						13.68	93.03	NS	NS	NS	NS	NS	NS	NS	NS
	03/21/02						14.04	92.67	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02						14.78	91.93	NS	NS	NS	NS	NS	NS	NS	NS
	08/19/02						16.18	90.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.4	6.8
	11/27/02						15.89	90.82	NS	NS	NS	NS	NS	NS	NS	NS
	02/05/03 ⁴						15.40	91.31	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	6.6
	05/13/03						15.42	91.29	NS	NS	NS	NS	NS	NS	NS	NS
	07/31/03	P					16.23	90.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	6.4
	12/17/03						15.57	91.14	NS	NS	NS	NS	NS	NS	NS	NS
	02/13/04 ⁸	P	112.15				15.30	96.85	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	6.3
	05/05/04						15.69	96.46	NS	NS	NS	NS	NS	NS	NS	NS

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Well Number	Date Sampled	Purge/ Not Purge	TOC Elevation (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Well Depth (ft bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO / TPH-g ⁷ (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ⁵ (mg/L)	pH ⁵
MW-5	06/21/00		106.60	12.00	25.00	25.00	16.52	90.08	67	ND<0.5	ND<0.5	ND<0.5	ND<1.0	10	NA	NA
	09/20/00						16.34	90.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.48	NA	NA
	12/22/00						15.58	91.02	341	11.5	2.53	4.02	6.25	146	NA	NA
	03/26/00						15.45	91.15	767	12.4	ND<5.0	ND<5.0	ND<5.0	163	NA	NA
	05/30/01						15.77	90.83	110	2.3	ND<0.5	ND<0.5	0.81	72	NA	NA
	09/23/01						16.16	90.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/28/01						14.09	92.51	240	2.8	1.9	ND<0.5	2.6	48	NA	NA
	03/21/02						14.43	92.17	NS	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NS	NS	NS
	04/17/02						14.96	91.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	08/19/02						16.34	90.26	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³
	11/27/02						NM ³	NM ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS	NS
	02/05/03 ⁴						NM ³	NM ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³	NS ³
	05/13/03 ⁶	NP					15.43	91.17	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	1.4	6.2
	07/31/03	NP					16.47	90.13	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	14.1	8.1
	12/17/03	NP					15.99	90.61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	15.4	8.5
	02/13/04 ⁸	NP	112.04				15.90	96.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	11.1	7.0
05/05/04	NP					16.28	95.76	51	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	0.8	7.2	
MW-6	06/21/00		105.13	14.00	26.60	26.60	13.91	91.22	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/00						14.03	91.10	NS	NS	NS	NS	NS	NS	NS	NS
	12/22/00						NM	NC	NS	NS	NS	NS	NS	NS	NS	NS
	03/26/01						12.59	92.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	05/30/01						13.40	91.73	NS	NS	NS	NS	NS	NS	NS	NS
	09/23/01						13.49	91.64	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/01						12.07	93.06	NS	NS	NS	NS	NS	NS	NS	NS
	03/21/02						11.79	93.34	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02						12.45	92.68	NS	NS	NS	NS	NS	NS	NS	NS
	08/19/02						13.96	91.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	2.8	6.9
	11/27/02						14.07	91.06	NS	NS	NS	NS	NS	NS	NS	NS
	02/05/03 ⁴						13.55	91.58	NS	NS	NS	NS	NS	NS	NS	NS
	05/13/03						13.57	91.56	NS	NS	NS	NS	NS	NS	NS	NS
	07/31/03	P					14.18	90.95	67	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	6.5
	12/17/03						14.12	91.01	NS	NS	NS	NS	NS	NS	NS	NS
	02/13/04 ⁸		110.66				13.51	97.15	NS	NS	NS	NS	NS	NS	NS	NS
05/05/04						13.95	96.71	NS	NS	NS	NS	NS	NS	NS	NS	

**Table I
Groundwater Elevation and Analytical Data**

Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue
Oakland, California

Well Number	Date Sampled	Purge/ Not Purge	TOC Elevation (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Well Depth (ft bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO / TPH-g ⁷ (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ⁵ (mg/L)	pH ⁵
MW-7	06/21/00		107.05	14.00	27.00	27.00	14.57	92.48	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/00						14.58	92.47	NS	NS	NS	NS	NS	NS	NS	NS
	12/22/00						13.21	93.84	NS	NS	NS	NS	NS	NS	NS	NS
	03/26/01						13.18	93.87	71.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	05/30/01						13.80	93.25	NS	NS	NS	NS	NS	NS	NS	NS
	09/23/01						14.27	92.78	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/01						12.24	94.81	NS	NS	NS	NS	NS	NS	NS	NS
	03/21/02						12.16	94.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02						13.08	93.97	NS	NS	NS	NS	NS	NS	NS	NS
	08/19/02						14.73	92.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.4	6.7
	11/27/02						14.76	92.29	NS	NS	NS	NS	NS	NS	NS	NS
	02/05/03 ⁴						14.07	92.98	NS	NS	NS	NS	NS	NS	NS	NS
	05/13/03						14.00	93.05	NS	NS	NS	NS	NS	NS	NS	NS
	07/31/03	P					14.88	92.17	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	6.4
	12/17/03						14.10	92.95	NS	NS	NS	NS	NS	NS	NS	NS
	02/13/04 ⁸			112.59			13.91	98.68	NS	NS	NS	NS	NS	NS	NS	NS
05/05/04						14.60	97.99	NS	NS	NS	NS	NS	NS	NS	NS	

Table 1
Groundwater Elevation and Analytical Data

Atlantic Richfield Company Service Station # 6148
5131 Shattuck Avenue
Oakland, California

bgs	= below ground surface
ft	= Feet
GRO	= Gasoline Range Organics
µg/L	= Micrograms per liter
mg/L	= Milligrams per liter
MSL	= Mean Sea Level
MTBE	= Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted (Prior to 2/5/03)
NA	= Not available
ND<	= Not detected at or above specified laboratory reporting limit
NP	= No Purge
NS	= Not Sampled
P	= Purge
TOC	= Top of Casing
TPH-g	= Total Petroleum Hydrocarbons as gasoline

1	= Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
2	= Chromatogram Pattern: Gasoline C6-C10
3	= Well MW-5 not sampled due to ORC sock wedged in well.
4	= TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on 1st Quarter Sampling Event (2/5/03)
5	= pH and dissolved oxygen are field measurements.
6	= During this monitoring event, the oxygen releasing compounds (ORC) were replaced for this well.
7	= Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported. Beginning in the Second Quarter 2004 the carbon range for GRO was changed from C6-C10 to C4-C12.
8	= Wells surveyed to NAVD'88 datum on January 29, 2004.

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

Table 2
Groundwater Flow Direction and Gradient

Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue
Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/21/00	South-Southwest	0.02
09/20/00	South-Southwest	0.017
12/22/00	South-Southwest	0.022
03/26/01	South-Southwest	0.020
05/30/01	South-Southwest	0.020
09/23/01	South-Southwest	0.019
12/28/01	Southwest	0.019
03/21/02	Southwest	0.019
04/17/02	Southwest	0.017
08/19/02	Southwest	0.016
11/27/02	Southwest	0.015
02/05/03	Southwest	0.017
05/13/03	Southwest	0.013
07/31/03	Southwest	0.014
12/17/03	Southwest	0.017
02/13/04	Southwest	0.016
05/05/04	Southwest	0.014

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

**Table 3
Fuel Oxygenate Analytical Data**

Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue
Oakland, California

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	02/05/03	ND<40	ND<20	1.1	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/13/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	07/31/03	ND<100	ND<20	0.55	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/17/03	ND<100	ND<20	2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	02/13/04	ND<100	ND<20	1.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/05/04	ND<100	ND<20 ^a	0.60	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	02/05/03	ND<40	ND<20	4.3	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/13/03	ND<100	ND<20	2.8	ND<0.50	ND<0.50	ND<0.50	NA	NA
	07/31/03	ND<100	ND<20	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/17/03	ND<100	ND<20	2.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	02/13/04	ND<100	ND<20	1.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/05/04	ND<100	ND<20	0.99	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	02/05/03	ND<40	ND<20	2.4	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/13/03	ND<100	ND<20	2.2	ND<0.50	ND<0.50	ND<0.50	NA	NA
	07/31/03	ND<100	ND<20	2.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/17/03	ND<100	ND<20	4.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	02/13/04	ND<100	ND<20	3.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/05/04	ND<100	ND<20	1.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4	02/05/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	07/31/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	02/13/04	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	05/13/03	ND<100	ND<20	15	ND<0.50	ND<0.50	1.1	NA	NA
	07/31/03	ND<100	ND<20	1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	12/17/03	ND<100	ND<20	1.8	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	02/13/04	ND<100	ND<20	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/05/04	ND<100	ND<20	1.2	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	07/31/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	07/31/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert butyl ether

µg/L = micrograms per liter

MTBE = Methyl tert-butyl ether

NA = Data not available, not analyzed, or not applicable

ND< = Not detected at or above the laboratory reporting limit

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

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

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.

WELL GAUGING DATA

Project # 040505-002 Date 5/5/04 Client VRS 6/48

Site 5121 Shattuck Ave. Oakland

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 TOB	
MW-1	4					17.28	25.48		N@11.8'
MW-2	4					17.04	25.49		ORC N@12'
MW-3	4					17.22	20.98		N@10'
MW-4	4					15.09	26.02		G.O.
MW-5	4					16.28	22.04		ORC N@12'
MW-6	4					13.95	26.59		G.O.
MW-7	4					14.60	26.98	↓	G.O.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040505-002	Station # 6148
Sampler: PC	Date: 5/5/04
Well I.D.: MW-1	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8
Total Well Depth: 25.48	Depth to Water: 17.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> 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: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	--

Top of Screen: 11.5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1 Case Volume (Gals.)	X	No Purge	=	Gals.
		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1300	71.8	6.4	413		

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated:
Sampling Time: 1300	Sampling Date: 5/5/04
Sample I.D.: MW-1	Laboratory: Pace <input checked="" type="checkbox"/> Sequon Other _____
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX MTBE TPH-D Other: <u>0.2, 3, EOB, 1, 2-DCA & Ethanol by B260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>0.6</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040505-PC2</u>	Station # <u>1614B</u>
Sampler: <u>PC</u>	Date: <u>5/5/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>25.49</u>	Depth to Water: <u>17.04</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>ROB</u> Grade	D.O. Meter (if req'd): <input checked="" type="checkbox"/> <u>CS</u> <input type="checkbox"/> EACH

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: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

Top of Screen: 12' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

_____	X	<u>No PURGE</u>	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
<u>1228</u>	<u>72.3</u>	<u>6.9</u>	<u>471</u>		

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____
Sampling Time: <u>1228</u>	Sampling Date: <u>5/5/04</u>
Sample I.D.: <u>MW-2</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>Orgs, EDB, 1, 2-DHA & Ethanol by 8260</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: <u>4.3</u> mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040505-PC2</u>	Station # <u>6148</u>
Sampler: <u>PC</u>	Date: <u>5/5/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>20.98</u>	Depth to Water: <u>17.22</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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

Top of Screen: 10' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1 Case Volume (Gals.)	x <u>NO PURGE</u>	=	_____ Gals.
	Specified Volume		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1242	72.6	6.9	579		

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1242 Sampling Date: 5/5/04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OX₃, EPE, 1,2-DCA & Ethanol by #260

D.O. (if req'd):	Pre-purge:	µg/L	Post-purge:	1.2 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040505-PC2</u>	Station # <u>6148</u>
Sampler: <u>PC</u>	Date: <u>5/5/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>6</u> 8 _____
Total Well Depth: <u>22.04</u>	Depth to Water: <u>16.28</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PC</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: <u>Bailer</u> <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

Top of Screen: 12' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1 Case Volume (Gals.)	X <u>NO PURGE</u>	= _____ Gals.
	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1215</u>	<u>69.1</u>	<u>7.2</u>	<u>541</u>		

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated:
Sampling Time: <u>1215</u>	Sampling Date: <u>5/5/04</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequitia</u> Other _____

Analyzed for: <u>PTTG BTEX</u> MTBE TPH-D Other: <u>Org, EDE, 1,2-DCA & Ethanol by 8260</u>			
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>0.8</u> mg/L	
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV	

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 mentioned in 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 the Atlantic Richfield Company have been reviewed and verified by that laboratory.



28 May, 2004

Scott Robinson
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #6148, Oakland, CA
Work Order: MNE0141

Enclosed are the results of analyses for samples received by the laboratory on 05/05/04 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6148, Oakland, CA
Project Number: INTRIM-50769
Project Manager: Scott Robinson

MNE0141
Reported:
05/28/04 13:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNE0141-01	Water	05/05/04 13:00	05/05/04 16:30
MW-2	MNE0141-02	Water	05/05/04 12:28	05/05/04 16:30
MW-3	MNE0141-03	Water	05/05/04 12:42	05/05/04 16:30
MW-5	MNE0141-04	Water	05/05/04 12:15	05/05/04 16:30
TB-6148-5052004	MNE0141-05	Water	05/05/04 12:00	05/05/04 16:30

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6148, Oakland, CA
Project Number: INTRIM-50769
Project Manager: Scott Robinson

MNE0141
Reported:
05/28/04 13:18

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNE0141-01) Water Sampled: 05/05/04 13:00 Received: 05/05/04 16:30									
Ethanol	ND	100	ug/l	1	4E18025	05/18/04	05/18/04	EPA 8260B	
Methyl tert-butyl ether	0.60	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.2 %	78-129	"	"	"	"	"	
MW-1 (MNE0141-01RE1) Water Sampled: 05/05/04 13:00 Received: 05/05/04 16:30									
tert-Butyl alcohol	ND	20	ug/l	1	4E25006	05/25/04	05/25/04	EPA 8260B	HT-04
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	78-129	"	"	"	"	"	HT-04
MW-2 (MNE0141-02) Water Sampled: 05/05/04 12:28 Received: 05/05/04 16:30									
Ethanol	ND	100	ug/l	1	4E18025	05/18/04	05/18/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	0.99	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.8 %	78-129	"	"	"	"	"	



URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

Project: ARCO #6148, Oakland, CA
 Project Number: INTRIM-50769
 Project Manager: Scott Robinson

MNE0141
 Reported:
 05/28/04 13:18

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MNE0141-03) Water Sampled: 05/05/04 12:42 Received: 05/05/04 16:30									
Ethanol	ND	100	ug/l	1	4E18025	05/18/04	05/18/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.3	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	78-129	"	"	"	"	"	
MW-5 (MNE0141-04) Water Sampled: 05/05/04 12:15 Received: 05/05/04 16:30									
Ethanol	ND	100	ug/l	1	4E18025	05/18/04	05/19/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.2	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	51	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	78-129	"	"	"	"	"	

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #6148, Oakland, CA
 Project Number: INTRIM-50769
 Project Manager: Scott Robinson

 MNE0141
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 05/28/04 13:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4E18025 - EPA 5030B P/T
Blank (4E18025-BLK1)

Prepared & Analyzed: 05/18/04

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4

2.37

" 2.50

94.8

78-129

Laboratory Control Sample (4E18025-BS1)

Prepared: 05/18/04 Analyzed: 05/19/04

Ethanol	261	100	ug/l	200		130	31-143			
tert-Butyl alcohol	51.8	20	"	50.0		104	56-131			
Methyl tert-butyl ether	7.99	0.50	"	10.0		79.9	63-137			
Di-isopropyl ether	12.7	0.50	"	10.0		127	76-130			
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	81-121			
tert-Amyl methyl ether	8.99	0.50	"	10.0		89.9	82-140			
1,2-Dichloroethane	9.11	0.50	"	10.0		91.1	77-136			
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0		105	77-132			
Benzene	9.85	0.50	"	10.0		98.5	69-124			
Toluene	10.9	0.50	"	10.0		109	78-129			
Ethylbenzene	11.4	0.50	"	10.0		114	84-132			
Xylenes (total)	34.7	0.50	"	30.0		116	83-137			

Surrogate: 1,2-Dichloroethane-d4

1.98

" 2.50

79.2

78-129

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #6148, Oakland, CA Project Number: INTRIM-50769 Project Manager: Scott Robinson	MNE0141 Reported: 05/28/04 13:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4E18025 - EPA 5030B P/T									
Laboratory Control Sample (4E18025-BS2)					Prepared: 05/18/04 Analyzed: 05/19/04				
Methyl tert-butyl ether	9.01	0.50	ug/l	9.92		90.8 63-137			
Benzene	5.63	0.50	"	6.40		88.0 69-124			
Toluene	33.5	0.50	"	29.7		113 78-129			
Ethylbenzene	8.49	0.50	"	6.96		122 84-132			
Xylenes (total)	41.6	0.50	"	33.7		123 83-137			
Gasoline Range Organics (C4-C12)	504	50	"	440		115 70-124			
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96.4 78-129			
Laboratory Control Sample Dup (4E18025-BSD1)					Prepared: 05/18/04 Analyzed: 05/19/04				
Ethanol	262	100	ug/l	200		131 31-143	0.382	20	
tert-Butyl alcohol	50.9	20	"	50.0		102 56-131	1.75	20	
Methyl tert-butyl ether	8.40	0.50	"	10.0		84.0 63-137	5.00	20	
Di-isopropyl ether	13.3	0.50	"	10.0		133 76-130	4.62	20	QC04
Ethyl tert-butyl ether	11.2	0.50	"	10.0		112 81-121	6.45	20	
tert-Amyl methyl ether	9.52	0.50	"	10.0		95.2 82-140	5.73	20	
1,2-Dichloroethane	9.59	0.50	"	10.0		95.9 77-136	5.13	20	
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0		104 77-132	0.957	20	
Benzene	10.3	0.50	"	10.0		103 69-124	4.47	20	
Toluene	11.0	0.50	"	10.0		110 78-129	0.913	20	
Ethylbenzene	11.5	0.50	"	10.0		115 84-132	0.873	20	
Xylenes (total)	36.0	0.50	"	30.0		120 83-137	3.68	20	
Surrogate: 1,2-Dichloroethane-d4	1.96		"	2.50		78.4 78-129			
Laboratory Control Sample Dup (4E18025-BSD2)					Prepared: 05/18/04 Analyzed: 05/19/04				
Methyl tert-butyl ether	8.96	0.50	ug/l	9.92		90.3 63-137	0.556	20	
Benzene	5.64	0.50	"	6.40		88.1 69-124	0.177	20	
Toluene	33.5	0.50	"	29.7		113 78-129	0.00	20	
Ethylbenzene	8.44	0.50	"	6.96		121 84-132	0.591	20	
Xylenes (total)	42.0	0.50	"	33.7		125 83-137	0.957	20	
Gasoline Range Organics (C4-C12)	500	50	"	440		114 70-124	0.797	20	
Surrogate: 1,2-Dichloroethane-d4	2.24		"	2.50		89.6 78-129			

UR S Corporation [Arco]
1333 Broadway, Suite 800
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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Batch 4E25006 - EPA 5030B P/T
Blank (4E25006-BLK1)

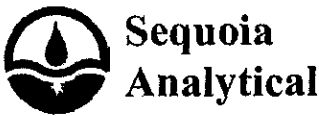
Prepared & Analyzed: 05/25/04

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.65		"	5.00		113			78-129	

Laboratory Control Sample (4E25006-BS1)

Prepared & Analyzed: 05/25/04

Ethanol	212	100	ug/l	200		106			31-143	
tert-Butyl alcohol	48.9	20	"	50.0		97.8			56-131	
Methyl tert-butyl ether	8.93	0.50	"	10.0		89.3			63-137	
Di-isopropyl ether	8.06	0.50	"	10.0		80.6			76-130	
Ethyl tert-butyl ether	9.64	0.50	"	10.0		96.4			81-121	
tert-Amyl methyl ether	8.74	0.50	"	10.0		87.4			82-140	
1,2-Dichloroethane	10.7	0.50	"	10.0		107			77-136	
1,2-Dibromoethane (EDB)	9.01	0.50	"	10.0		90.1			77-132	
Benzene	8.99	0.50	"	10.0		89.9			69-124	
Toluene	8.93	0.50	"	10.0		89.3			78-129	
Ethylbenzene	9.27	0.50	"	10.0		92.7			84-132	
Xylenes (total)	28.6	0.50	"	30.0		95.3			83-137	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.60		"	5.00		112			78-129	



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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4E25006 - EPA 5030B P/T										
Laboratory Control Sample (4E25006-BS2)					Prepared & Analyzed: 05/25/04					
Gasoline Range Organics (C4-C12)	489	50	ug/l	440		111	70-124			
Surrogate: 1,2-Dichloroethane-d4	5.23		"	5.00		105	78-129			
Laboratory Control Sample Dup (4E25006-BSD1)					Prepared & Analyzed: 05/25/04					
Ethanol	176	100	ug/l	200		88.0	31-143	18.6	20	
tert-Butyl alcohol	47.3	20	"	50.0		94.6	56-131	3.33	20	
Methyl tert-butyl ether	9.75	0.50	"	10.0		97.5	63-137	8.78	20	
Di-isopropyl ether	8.68	0.50	"	10.0		86.8	76-130	7.41	20	
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	81-121	7.58	20	
tert-Amyl methyl ether	9.44	0.50	"	10.0		94.4	82-140	7.70	20	
1,2-Dichloroethane	11.7	0.50	"	10.0		117	77-136	8.93	20	CC01
1,2-Dibromoethane (EDB)	10.2	0.50	"	10.0		102	77-132	12.4	20	
Benzene	9.17	0.50	"	10.0		91.7	69-124	1.98	20	
Toluene	9.31	0.50	"	10.0		93.1	78-129	4.17	20	
Ethylbenzene	9.87	0.50	"	10.0		98.7	84-132	6.27	20	
Xylenes (total)	29.3	0.50	"	30.0		97.7	83-137	2.42	20	
Surrogate: 1,2-Dichloroethane-d4	5.92		"	5.00		118	78-129			
Laboratory Control Sample Dup (4E25006-BSD2)					Prepared & Analyzed: 05/25/04					
Gasoline Range Organics (C4-C12)	547	50	ug/l	440		124	70-124	11.2	20	
Surrogate: 1,2-Dichloroethane-d4	6.12		"	5.00		122	78-129			

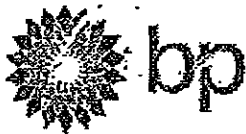
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6148, Oakland, CA
Project Number: INTRIM-50769
Project Manager: Scott Robinson

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05/28/04 13:18

Notes and Definitions

- QC04 The recovery was above the control limit by 3%. This should be considered in evaluating the results associated with this batch for their intended purpose.
- HT-04 This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
- CC01 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- 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 **MNE0141**

Project Name 6146 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company

Date: 5/5/04 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: 1115 Temp: 75°F
 Off-site Time: 1315 Temp: 75°F
 Sky Conditions: clear
 Meteorological Events: none
 Wind Speed: _____ Direction: _____

Send To:	BP/GEM Facility No.: <u>ARCO 6148</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>5131 Shattuck Ave, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 6148</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100103</u>	Consultant/Contractor Project No.: <u>15-00006148.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>I Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: <u>Consultant/Contractor of BP/GEM (Circle one)</u>
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GRM Work Release No: <u>INTRIM -50769</u>

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments
			Solid	Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO / BTEX (801.5/8021) (8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE, DIBP, TBA (8260)	1,2-DCA & EOB (8260)	
1	MU-1	1100	X				01	3			X			X	X	X			
2	MU-2	1228	X				02	3			X			X	X	X			
3	MU-3	1242	X				03	3			X			X	X	X			
4	MU-5	1215	X				04	3			X			X	X	X			
5	FD-61485052001	1200	X				05	2										on hold	
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>P. Lornish</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>5/5/04</u>	Time: <u>1440</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>5/5/04</u>	Time: <u>1440</u>
Sampler's Company: <u>Olavue Tech</u>						
Event Date:						
Event Method:						
Tracking No:						

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

Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 1.4 °C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: MRS
 REC. BY (PRINT): DS
 WORKORDER: MNE0141

DATE REC'D AT LAB: 5-5-04
 TIME REC'D AT LAB: 1630
 DATE LOGGED IN: 5-7-04

DRINKING WATER for regulatory purposes: YES NO
 WASTE WATER for regulatory purposes: YES NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Intact / Broken*	01		MW-1	3-VOLS	HCl	L	5-4-04	lot HA4071080
2. Chain-of-Custody	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	02		MW-2	↓	↓	↓	↓	
3. Traffic Reports or Packing List:	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	03		MW-3	↓	↓	↓	↓	
4. Airbill:	Airbill / Slicker Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	04		MW-5	↓	↓	↓	↓	
5. Airbill #:		05		TB-648-505204	2-VOLS	↓	↓	↓	
6. Sample Labels:	Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>								
7. Sample IDs:	Listed <input checked="" type="checkbox"/> Not Listed <input type="checkbox"/> on Chain-of-Custody								
8. Sample Condition:	Intact <input checked="" type="checkbox"/> Broken* <input type="checkbox"/> Leaking* <input type="checkbox"/>								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes <input checked="" type="checkbox"/> No* <input type="checkbox"/>								
10. Sample received within hold time:	Yes <input checked="" type="checkbox"/> No* <input type="checkbox"/>								
11. Adequate sample volume received?	Yes <input checked="" type="checkbox"/> No* <input type="checkbox"/>								
12. Proper Preservatives used:	Yes <input checked="" type="checkbox"/> No* <input type="checkbox"/>								
13. Temp Rec. at Lab:	9.4°C								
Is temp 4 ±1.2°C?	Yes <input checked="" type="checkbox"/> No** <input type="checkbox"/>								

5-5-04 DS

*Acceptance range for samples requiring thermal pres.)
 Exception (if any): METALS / DFF ON ICE
 Problem COC

***IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.**

ATTACHMENT C

HISTORICAL GROUNDWATER DATA

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 6148
5131 Shattuck Avenue, Oakland, California

Well Number	Date Gauged/ Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH					Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)		
						Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)			MTBE (µg/L)	TRPH (mg/L)
MW-1	03-20-95	108.03	15.75	ND	92.28	830	140	5	41	110	--	--		
MW-1	06-06-95	108.03	17.68	ND	90.35	210	30	<0.5	7.3	16	--	--		
MW-1	08-24-95	107.80	17.45	ND	90.35	Not sampled: well was inaccessible due to construction								
MW-1	11-16-95	107.80	17.64	ND	90.16	<50	5.6	<0.5	1.4	1.2	55	--		
MW-1	02-27-96	107.80	15.21	ND	92.59	1,400	240	88	44	110	200	--		
MW-1	05-15-96	107.80	17.53	ND	90.27	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-1	08-14-96	107.80	17.15	ND	90.65	98	18	<0.5	1.9	1	45	--		
MW-1	11-11-96	107.80	17.78	ND	90.02	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-1	03-25-97	107.80	17.68	ND	90.12	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-1	05-15-97	107.80	17.91	ND	89.89	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-1	10-26-97	107.80	18.85	ND	88.95	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-1	11-10-97	107.80	18.10	ND	89.70	<50	<0.5	<0.5	<0.5	<0.5	4	--		
MW-1	02-13-98	107.80	13.15	ND	94.65	<100	8.4	<1	<1	14	130	--		
MW-1	05-12-98	107.80	12.30	ND	95.50	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-1	07-28-98	107.80	17.04	ND	90.75	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-1	10-28-98	107.80	18.10	ND	89.70	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-1	02-12-99	107.80	15.84	ND	91.95	72	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-1	06-03-99	107.80	17.62	ND	90.18	890	33	1.5	12	2.8	250	--	1.44	NP
MW-1	10-26-99	107.80	16.92	ND	90.88	<50	<0.5	<0.5	<0.5	<1	9	--	9.58	NP
MW-2	03-20-95	107.43	15.50	ND#	91.93	Not sampled: floating product entered well during purging								
MW-2	06-06-95	107.43	17.43	ND	90.00	1,200	60	21	35	140	--	--		
MW-2	08-24-95	107.28	17.22	ND	90.06	Not sampled: well was inaccessible due to construction								
MW-2	11-16-95	107.28	17.36	ND	89.92	360	45	1.3	7.1	7.5	210	--		
MW-2	02-27-96	107.28	14.82	ND	92.45	8,900	1,400	980	150	550	940	--		
MW-2	05-15-96	107.28	17.40	ND	89.83	480	82	48	8	48	87	--		
MW-2	08-14-96	107.28	17.00	ND	90.23	130	22	4	2	9	120	--		

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 6148
5131 Shattuck Avenue, Oakland, California

Well Number	Date Gauged/ Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TRPH (mg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
MW-2	11-11-96	107.28	17.55	ND	89.73	1,200	150	120	21	160	110	--		
MW-2	03-25-97	107.28	17.32	ND	89.96	670	23	58	13	120	28	--		
MW-2	05-15-97	107.28	17.61	ND	89.67	<50	<0.5	<0.5	<0.5	<0.5	23	--		
MW-2	10-26-97	107.28	18.43	ND	88.85	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-2	11-10-97	107.28	17.84	ND	89.44	<100	<1	<1	<1	1	74	--		
MW-2	02-13-98	107.28	12.75	ND	94.53	220	9.5	3.9	3.7	48	84	--		
MW-2	05-12-98	107.28	17.02	ND	90.26	3,900	210	280	86	910	35	--		
MW-2	07-28-98	107.28	17.30	ND	89.98	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-2	10-28-98	107.28	17.80	ND	89.48	170	17	<0.5	1.7	5.0	24	--		
MW-2	02-12-99	107.28	15.55	ND	91.73	12,000	620	95	490	2,200	270	--		
MW-2	06-03-99	107.28	17.31	ND	89.97	<50	<0.5	<0.5	<0.5	1.1	8	--	2.53	NP
MW-2	10-26-99	107.28	16.58	ND	90.70	<50	1.0	<0.5	<0.5	3	<3	--	8.17	NP
MW-3	03-20-95	107.77	15.60	ND	92.17	29,000	880	190	760	2,000	--	16		
MW-3	06-06-95	107.77	17.54	ND	90.23	22,000	450	54	380	1,300	--	7.1		
MW-3	08-24-95	107.61	17.42	ND	90.19	Not sampled: well was inaccessible due to construction								
MW-3	11-16-95	107.61	17.58	ND	90.03	13,000	210	<20	320	1,000	790	8.3		
MW-3	02-27-96	107.61	15.03	ND	92.58	9,700	94	15	290	720	430	10		
MW-3	05-15-96	107.61	17.35	ND	90.26	5,600	66	12	37	67	230	--		
MW-3	08-14-96	107.61	17.10	ND	90.51	830	17	<1*	8	7	110	--		
MW-3	11-11-96	107.61	17.73	ND	89.88	500	28	3	12	13	150	--		
MW-3	03-25-97	107.61	17.99	ND	89.62	<50	<0.5	<0.5	<0.5	<0.5	94	--		
MW-3	05-15-97	107.61	17.84	ND	89.77	<50	<0.5	<0.5	<0.5	<0.5	65	--		
MW-3	10-26-97	107.61	18.50	ND	89.11	220	4	<1	<1	<1	160	--		
MW-3	11-10-97	107.61	18.00	ND	89.61	350	8	<2	3	3	230	--		
MW-3	02-13-98	107.61	13.00	ND	94.61	<50	1.3	<0.5	<0.5	1	21	--		
MW-3	05-12-98	107.61	17.20	ND	90.41	120	<0.5	<0.5	<0.5	<0.9	71	--		

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ARCO Service Station 6148
5131 Shattuck Avenue, Oakland, California

Well Number	Date Gauged/ Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPII Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TRPH (mg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
MW-3	07-28-98	107.61	17.46	ND	90.15	<50	1.4	<0.5	<0.5	<0.5	52	--		
MW-3	10-28-98	107.61	18.00	ND	89.61	170	<0.5	<0.5	<0.5	0.7	35	--		
MW-3	02-12-99	107.61	15.76	ND	91.85	120	2.0	0.6	<0.5	1.3	37	--		
MW-3	06-03-99	107.61	Well inaccessible: Surveyed well VW-1 as an alternative											
MW-3	10-26-99	107.61	16.69	ND	90.92	630	14	0.7	13	2	38	--	1.24	NP
MW-4	03-20-95	106.58	13.85	ND	92.73	88	1	<0.5	<0.5	0.7	--	--		
MW-4	06-06-95	106.58	15.70	ND	90.88	<50	<0.5	<0.5	<0.5	<0.5	--	--		
MW-4	08-24-95	106.71	15.86	ND	90.85	Not sampled: well was inaccessible due to construction								
MW-4	11-16-95	106.71	16.10	ND	90.61	<50	<0.5	<0.5	<0.5	<0.5	6	--		
MW-4	02-27-96	106.71	13.72	ND	92.99	<50	<0.5	<0.5	<0.5	<0.5	10	--		
MW-4	05-15-96	106.71	15.90	ND	90.81	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	08-14-96	106.71	15.68	ND	91.03	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-4	11-11-96	106.71	16.19	ND	90.52	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	03-25-97	106.71	16.10	ND	90.61	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-4	05-15-97	106.71	16.38	ND	90.33	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	10-26-97	106.71	17.78	ND	88.93	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-4	11-10-97	106.71	16.43	ND	90.28	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	02-13-98	106.71	13.05	ND	93.66	<50	1.3	0.7	<0.5	2.3	19	--		
MW-4	05-12-98	106.71	15.69	ND	91.02	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	07-28-98	106.71	15.93	ND	90.78	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-4	10-28-98	106.71	16.40	ND	90.31	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	02-12-99	106.71	14.13	ND	92.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-4	06-03-99	106.71	16.00	ND	90.71	Not sampled: well sampled semi-annually, during the first and third quarter								
MW-4	10-26-99	106.71	15.76	ND	90.95	Not sampled: well sampled semi-annually, during the first and third qtr.								
													1.72	
MW-5	03-20-95	106.68	14.92	ND	91.76	21,000	6,900	450	800	1,300	--	--		

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5131 Shattuck Avenue, Oakland, California

Well Number	Date Gauged/ Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH					Total Xylenes (µg/L)	MTBE (µg/L)	TRPH (mg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
						Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)						
MW-5	06-06-95	106.68	16.61	ND	90.07	6,500	1,700	<20	120	69	--	--			
MW-5	08-24-95	106.60	16.47	ND	90.13	Not sampled: well was inaccessible due to construction									
MW-5	11-16-95	106.60	16.69	ND	89.91	1,800	470	<5	17	5	1,000	--			
MW-5	02-27-96	106.60	14.35	ND	92.25	10,000	1,000	71	690	1,000	440/450*	--			
MW-5	05-15-96	106.60	16.58	ND	90.02	3,400	350	6	72	20	220	--			
MW-5	08-14-96	106.60	17.26	ND	89.34	2,100	130	2.7	47	4.7	220	--			
MW-5	11-11-96	106.60	16.62	ND	89.98	1,200	31	1	8	2	130	--			
MW-5	03-25-97	106.60	16.38	ND	90.22	<50	<0.5	<0.5	<0.5	<0.5	5	--			
MW-5	05-15-97	106.60	16.54	ND	90.06	<50	<0.5	<0.5	<0.5	<0.5	<3	--			
MW-5	10-26-97	106.60	17.60	ND	89.00	<50	<0.5	<0.5	<0.5	<0.5	7	--			
MW-5	11-10-97	106.60	16.78	ND	89.82	<50	<0.5	<0.5	<0.5	<0.5	24	--			
MW-5	02-13-98	106.60	12.21	ND	94.39	11,200	51	<10	<10	<10	2,000	--			
MW-5	05-12-98	106.60	NR	ND	NR	Not sampled: well inaccessible									
MW-5	07-28-98	106.60	16.47	ND	90.13	<50	<0.5	<0.5	<0.5	<0.5	<3	--			
MW-5	10-28-98	106.60	16.80	ND	89.80	<50	0.8	<0.5	<0.5	<0.5	99	--			
MW-5	02-12-99	106.60	14.88	ND	91.72	<1,000	<10	<10	<10	<10	1,100	--			
MW-5	06-03-99	106.60	16.63	ND	89.95	290	10	<0.5	<0.5	0.6	200	--	2.45	NP	
MW-5	10-26-99	106.60	16.10	ND	90.50	<50	<0.5	<0.5	<0.5	<1	11	--	NM	NP	
MW-6	03-20-95	105.16	12.13	ND	93.03	<50	<0.5	<0.5	<0.5	<0.5	--	--			
MW-6	06-06-95	105.16	13.95	ND	91.21	<50	<0.5	<0.5	<0.5	<0.5	--	--			
MW-6	08-24-95	105.13	14.07	ND	91.06	<50	<0.5	<0.5	<0.5	<0.5	<3	--			
MW-6	11-16-95	105.13	14.34	ND	90.79	<60	<0.5	<0.5	<0.5	<0.5	--	--			
MW-6	02-27-96	105.13	12.00	ND	93.13	<50	<0.5	<0.5	<0.5	<0.5	<3	--			
MW-6	05-15-96	105.13	14.10	ND	91.03	Not sampled: well sampled annually, during the first quarter									
MW-6	08-14-96	105.13	13.70	ND	91.43	Not sampled: well sampled annually, during the first quarter									
MW-6	11-11-96	105.13	14.11	ND	91.02	Not sampled: well sampled annually, during the first quarter									

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ARCO Service Station 6148
 5131 Shattuck Avenue, Oakland, California

Well Number	Date Gauged/ Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH					MTBE (µg/L)	TRPH (mg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
						Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)				
MW-6	03-25-97	105.13	14.15	ND	90.98	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-6	05-15-97	105.13	14.44	ND	90.69	Not sampled: well sampled annually, during the first quarter								
MW-6	10-26-97	105.13	16.02	ND	89.11	Not sampled: well sampled annually, during the first quarter								
MW-6	11-10-97	105.13	14.52	ND	90.61	Not sampled: well sampled annually, during the first quarter								
MW-6	02-13-98	105.13	10.06	ND	95.07	<50	<0.5	<0.5	<0.5	<0.5	8	--		
MW-6	05-12-98	105.13	13.75	ND	91.38	Not sampled: well sampled annually, during the first quarter								
MW-6	07-28-98	105.13	14.06	ND	91.07	Not sampled: well sampled annually, during the first quarter								
MW-6	10-28-98	105.13	14.71	ND	90.42	Not sampled: well sampled annually, during the first quarter								
MW-6	02-12-99	105.13	12.22	ND	92.91	<100	<1	<1	<1	<1	110	--		
MW-6	06-03-99	105.13	13.95	ND	91.18	Not sampled: well sampled annually, during the first quarter								
MW-6	10-26-99	105.13	14.06	ND	91.07	Not sampled: well sampled annually, during the first quarter								
MW-7	03-20-95	107.08	12.32	ND	94.76	<50	<0.5	<0.5	<0.5	<0.5	--	--		
MW-7	06-06-95	107.08	14.59	ND	92.49	Not sampled: well sampled semi-annually, during the first and third quarters								
MW-7	08-24-95	107.05	14.64	ND	92.41	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-7	11-16-95	107.05	15.30	ND	91.75	Not sampled: well sampled semi-annually, during the first and third quarters								
MW-7	02-27-96	107.05	12.24	ND	94.81	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-7	05-15-96	107.05	14.65	ND	92.40	Not sampled: well sampled annually, during the first quarter								
MW-7	08-14-96	107.05	14.35	ND	92.70	Not sampled: well sampled annually, during the first quarter								
MW-7	11-11-96	107.05	14.92	ND	92.13	Not sampled: well sampled annually, during the first quarter								
MW-7	03-25-97	107.05	14.80	ND	92.25	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-7	05-15-97	107.05	15.27	ND	91.78	Not sampled: well sampled annually, during the first quarter								
MW-7	10-26-97	107.05	16.68	ND	90.37	Not sampled: well sampled annually, during the first quarter								
MW-7	11-10-97	107.05	15.37	ND	91.68	Not sampled: well sampled annually, during the first quarter								
MW-7	02-11-98	107.05	10.80	ND	96.25	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-7	05-12-98	107.05	14.32	ND	92.73	Not sampled: well sampled annually, during the first quarter								
MW-7	07-28-98	107.05	14.79	ND	92.26	Not sampled: well sampled annually, during the first quarter								

Table 1
**Historical Groundwater Elevation and Analytical Data
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 5131 Shattuck Avenue, Oakland, California

Well Number	Date Gauged/ Sampled	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TRPH (mg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
MW-7	10-28-98	107.05	15.57	ND	91.48	Not sampled: well sampled annually, during the first quarter								
MW-7	02-12-99	107.05	12.46	ND	94.59	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
MW-7	06-03-99	107.05	14.53	ND	92.52	Not sampled: well sampled annually, during the first quarter								
MW-7	10-26-99	107.05	14.74	ND	92.31	Not sampled: well sampled annually, during the first quarter								
VW-1	06-03-99	NR	17.51	ND	NR	420	2.3	0.6	2.0	2.2	74	--	1.28	P

R-MSL: elevation in feet, relative to mean sea level
 TPH: total petroleum hydrocarbons as gasoline, California DHS LUFT Method
 BTEX: Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/26/99)
 MTBE: Methyl tert-butyl ether by EPA method 8021B. (EPA method 8020 prior to 10/26/99).
 TRPH: total recoverable petroleum hydrocarbons
 µg/L: micrograms per liter
 mg/L: milligrams per liter
 NR: not reported; data not available
 ND: none detected
 #: floating product entered the well during purging
 --: not analyzed or not applicable
 *: confirmed by EPA 8240
 **: For previous historical groundwater elevation and analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 6148, Oakland, California, (EMCON, March 4, 1996).*

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

06/05/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #6148, Oakland, CA
Work Order Number:	MNE0141
Global ID:	T0600100103
Lab Report Number:	MNE0141052820041318

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run	Sub
MNE01410528200	MW-1	MNE014101	W	CS	8260FA	SW5030B	05/05/04	05/18/04	05/18/04	4E18025	1	
41318												
MNE01410528200	MW-1	MNE014101	W	CS	8260FA	SW5030B	05/05/04	05/25/04	05/25/04	4E25006	2	
41318												
MNE01410528200	MW-2	MNE014102	W	CS	8260FA	SW5030B	05/05/04	05/18/04	05/18/04	4E18025	1	
41318												
MNE01410528200	MW-3	MNE014103	W	CS	8260FA	SW5030B	05/05/04	05/18/04	05/18/04	4E18025	1	
41318												
MNE01410528200	MW-5	MNE014104	W	CS	8260FA	SW5030B	05/05/04	05/18/04	05/19/04	4E18025	1	
41318												
		4E18025BSD1	WQ	BD1	8260FA	SW5030B	//	05/18/04	05/19/04	4E18025	1	
		4E18025BSD2	WQ	BD2	8260FA	SW5030B	//	05/18/04	05/19/04	4E18025	1	
		4E18025BS1	WQ	BS1	8260FA	SW5030B	//	05/18/04	05/19/04	4E18025	1	
		4E18025BS2	WQ	BS2	8260FA	SW5030B	//	05/18/04	05/19/04	4E18025	1	
		4E18025BLK1	WQ	LB1	8260FA	SW5030B	//	05/18/04	05/18/04	4E18025	1	
		4E25006BSD1	WQ	BD1	8260FA	SW5030B	//	05/25/04	05/25/04	4E25006	1	
		4E25006BSD2	WQ	BD2	8260FA	SW5030B	//	05/25/04	05/25/04	4E25006	1	
		4E25006BS1	WQ	BS1	8260FA	SW5030B	//	05/25/04	05/25/04	4E25006	1	
		4E25006BS2	WQ	BS2	8260FA	SW5030B	//	05/25/04	05/25/04	4E25006	1	
		4E25006BLK1	WQ	LB1	8260FA	SW5030B	//	05/25/04	05/25/04	4E25006	1	

EDFSAMP: Error Summary Log

06/05/04

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

EDFTEST: Error Summary Log

06/05/04

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

EDFRES: Error Summary Log

06/05/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNE014101	CS	W	8260FA	PR	05/18/04	1	BZ
Warning: extra parameter	MNE014101	CS	W	8260FA	PR	05/18/04	1	BZME
Warning: extra parameter	MNE014101	CS	W	8260FA	PR	05/18/04	1	EBZ
Warning: extra parameter	MNE014101	CS	W	8260FA	PR	05/18/04	1	GROC4C12
Warning: extra parameter	MNE014101	CS	W	8260FA	PR	05/18/04	1	XYLENES
Warning: extra parameter	MNE014101	CS	W	8260FA	PR	05/25/04	2	DCA12D4
Warning: extra parameter	MNE014101	CS	W	8260FA	SR	05/18/04	1	DCA12D4
Warning: extra parameter	MNE014102	CS	W	8260FA	PR	05/18/04	1	BZ
Warning: extra parameter	MNE014102	CS	W	8260FA	PR	05/18/04	1	BZME
Warning: extra parameter	MNE014102	CS	W	8260FA	PR	05/18/04	1	DCA12D4
Warning: extra parameter	MNE014102	CS	W	8260FA	PR	05/18/04	1	EBZ
Warning: extra parameter	MNE014102	CS	W	8260FA	PR	05/18/04	1	GROC4C12
Warning: extra parameter	MNE014102	CS	W	8260FA	PR	05/18/04	1	XYLENES
Warning: extra parameter	MNE014103	CS	W	8260FA	PR	05/18/04	1	BZ
Warning: extra parameter	MNE014103	CS	W	8260FA	PR	05/18/04	1	BZME
Warning: extra parameter	MNE014103	CS	W	8260FA	PR	05/18/04	1	DCA12D4
Warning: extra parameter	MNE014103	CS	W	8260FA	PR	05/18/04	1	EBZ
Warning: extra parameter	MNE014103	CS	W	8260FA	PR	05/18/04	1	GROC4C12
Warning: extra parameter	MNE014103	CS	W	8260FA	PR	05/18/04	1	XYLENES
Warning: extra parameter	MNE014104	CS	W	8260FA	PR	05/19/04	1	BZ
Warning: extra parameter	MNE014104	CS	W	8260FA	PR	05/19/04	1	BZME
Warning: extra parameter	MNE014104	CS	W	8260FA	PR	05/19/04	1	DCA12D4
Warning: extra parameter	MNE014104	CS	W	8260FA	PR	05/19/04	1	EBZ
Warning: extra parameter	MNE014104	CS	W	8260FA	PR	05/19/04	1	GROC4C12
Warning: extra parameter	MNE014104	CS	W	8260FA	PR	05/19/04	1	XYLENES

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4E18025BLK1	LB1	WQ	8260FA	PR	05/18/04	1	BZ
Warning: extra parameter	4E18025BLK1	LB1	WQ	8260FA	PR	05/18/04	1	BZME
Warning: extra parameter	4E18025BLK1	LB1	WQ	8260FA	PR	05/18/04	1	DCA12D4
Warning: extra parameter	4E18025BLK1	LB1	WQ	8260FA	PR	05/18/04	1	EBZ
Warning: extra parameter	4E18025BLK1	LB1	WQ	8260FA	PR	05/18/04	1	GROC4C12
Warning: extra parameter	4E18025BLK1	LB1	WQ	8260FA	PR	05/18/04	1	XYLENES
Warning: extra parameter	4E18025BS1	BS1	WQ	8260FA	PR	05/19/04	1	BZ
Warning: extra parameter	4E18025BS1	BS1	WQ	8260FA	PR	05/19/04	1	BZME
Warning: extra parameter	4E18025BS1	BS1	WQ	8260FA	PR	05/19/04	1	DCA12D4
Warning: extra parameter	4E18025BS1	BS1	WQ	8260FA	PR	05/19/04	1	EBZ
Warning: extra parameter	4E18025BS1	BS1	WQ	8260FA	PR	05/19/04	1	XYLENES
Warning: extra parameter	4E18025BS2	BS2	WQ	8260FA	PR	05/19/04	1	BZ
Warning: extra parameter	4E18025BS2	BS2	WQ	8260FA	PR	05/19/04	1	BZME
Warning: extra parameter	4E18025BS2	BS2	WQ	8260FA	PR	05/19/04	1	DCA12D4
Warning: extra parameter	4E18025BS2	BS2	WQ	8260FA	PR	05/19/04	1	EBZ
Warning: extra parameter	4E18025BS2	BS2	WQ	8260FA	PR	05/19/04	1	GROC4C12
Warning: extra parameter	4E18025BS2	BS2	WQ	8260FA	PR	05/19/04	1	XYLENES
Warning: extra parameter	4E18025BSD1	BD1	WQ	8260FA	PR	05/19/04	1	BZ
Warning: extra parameter	4E18025BSD1	BD1	WQ	8260FA	PR	05/19/04	1	BZME
Warning: extra parameter	4E18025BSD1	BD1	WQ	8260FA	PR	05/19/04	1	DCA12D4
Warning: extra parameter	4E18025BSD1	BD1	WQ	8260FA	PR	05/19/04	1	EBZ
Warning: extra parameter	4E18025BSD1	BD1	WQ	8260FA	PR	05/19/04	1	XYLENES
Warning: extra parameter	4E18025BSD2	BD2	WQ	8260FA	PR	05/19/04	1	BZ
Warning: extra parameter	4E18025BSD2	BD2	WQ	8260FA	PR	05/19/04	1	BZME
Warning: extra parameter	4E18025BSD2	BD2	WQ	8260FA	PR	05/19/04	1	DCA12D4
Warning: extra parameter	4E18025BSD2	BD2	WQ	8260FA	PR	05/19/04	1	EBZ
Warning: extra parameter	4E18025BSD2	BD2	WQ	8260FA	PR	05/19/04	1	GROC4C12
Warning: extra parameter	4E18025BSD2	BD2	WQ	8260FA	PR	05/19/04	1	XYLENES
Warning: extra parameter	4E25006BLK1	LB1	WQ	8260FA	PR	05/25/04	1	BZ

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4E25006BLK1	LB1	WQ	8260FA	PR	05/25/04	1	BZME
Warning: extra parameter	4E25006BLK1	LB1	WQ	8260FA	PR	05/25/04	1	DCA12D4
Warning: extra parameter	4E25006BLK1	LB1	WQ	8260FA	PR	05/25/04	1	EBZ
Warning: extra parameter	4E25006BLK1	LB1	WQ	8260FA	PR	05/25/04	1	GROC4C12
Warning: extra parameter	4E25006BLK1	LB1	WQ	8260FA	PR	05/25/04	1	XYLENES
Warning: extra parameter	4E25006BS1	BS1	WQ	8260FA	PR	05/25/04	1	BZ
Warning: extra parameter	4E25006BS1	BS1	WQ	8260FA	PR	05/25/04	1	BZME
Warning: extra parameter	4E25006BS1	BS1	WQ	8260FA	PR	05/25/04	1	DCA12D4
Warning: extra parameter	4E25006BS1	BS1	WQ	8260FA	PR	05/25/04	1	EBZ
Warning: extra parameter	4E25006BS1	BS1	WQ	8260FA	PR	05/25/04	1	XYLENES
Warning: extra parameter	4E25006BS2	BS2	WQ	8260FA	PR	05/25/04	1	DCA12D4
Warning: extra parameter	4E25006BS2	BS2	WQ	8260FA	PR	05/25/04	1	GROC4C12
Warning: extra parameter	4E25006BSD1	BD1	WQ	8260FA	PR	05/25/04	1	BZ
Warning: extra parameter	4E25006BSD1	BD1	WQ	8260FA	PR	05/25/04	1	BZME
Warning: extra parameter	4E25006BSD1	BD1	WQ	8260FA	PR	05/25/04	1	DCA12D4
Warning: extra parameter	4E25006BSD1	BD1	WQ	8260FA	PR	05/25/04	1	EBZ
Warning: extra parameter	4E25006BSD1	BD1	WQ	8260FA	PR	05/25/04	1	XYLENES
Warning: extra parameter	4E25006BSD2	BD2	WQ	8260FA	PR	05/25/04	1	DCA12D4
Warning: extra parameter	4E25006BSD2	BD2	WQ	8260FA	PR	05/25/04	1	GROC4C12

EDFQC: Error Summary Log

06/05/04

Error type	Labioccti	Anmcode	Parlabel	Qccode	Labqid
There are no errors in this data files					

EDFCL: Error Summary Log

06/05/04

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

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