

**URS**

RO 239

March 20, 2006

Mr. Don Hwang  
Alameda County Environmental Health (ACEH)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
MAR 23 2006  
Environmental Health

**Re: First Quarter 2006 Groundwater Monitoring Report  
Former BP Service Station # 11124  
3315 High Street  
Oakland, California  
ACEH Case No. RO0000239**

Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *First Quarter 2006 Groundwater Monitoring Report* for the Former BP Service Station #11124, located at 3315 High Street, Oakland, California.


If you have any questions regarding this submission, please call me at (510) 874-1758.

Sincerely,

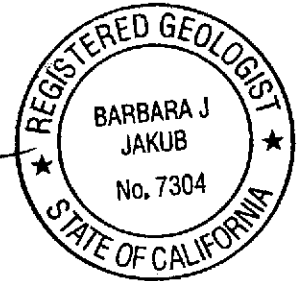
**URS CORPORATION**



Lynelle T. Onishi  
Project Manager



Barbara J. Jakub, P.G.  
Senior Geologist



Enclosure: First Quarter 2006 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), copy uploaded to ENFOS  
Ms. Shelby Lathrop, ConocoPhillips, copy uploaded to URS ftp server  
Mr. Rob Miller, Broadbent & Associates, Inc., electronic copy uploaded to ENFOS

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

2006 MAR 22 AM 9:09

Alameda County  
MAR 23 2006  
Environmental Health

Date: March 20, 2006  
Quarter: 1Q 06

FIRST QUARTER 2006 GROUNDWATER MONITORING REPORT

Former Facility No.: 11124 Address: 3315 High Street, Oakland, CA  
RM Environmental Business Manager: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Lynelle Onishi  
Primary Agency: Alameda County Environmental Health (ACEH)  
ACEH Case No.: RO0000239

**WORK PERFORMED THIS QUARTER (First – 2006):**

1. Performed the first quarter 2006 groundwater monitoring event on February 24, 2006.
2. Prepared and submitted this First Quarter 2006 Groundwater Monitoring Report.
3. Completed the on-site subsurface investigation on February 20 and 21, 2006.

**WORK PROPOSED FOR NEXT QUARTER (Second – 2006):**

1. Perform the second quarter 2006 groundwater monitoring event.
2. Prepare and submit the Subsurface Investigation Report documenting field activities conducted on February 20 and 21, 2006
3. Prepare and submit the Second Quarter 2006 Quarterly Monitoring Report.

**SITE SUMMARY:**

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Quarterly: Wells MW-1, MW-2, and MW-4</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product Present On-Site:	<u>No</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>7.86 (MW-4) to 10.42 (MW-1) feet</u>
Groundwater Gradient (direction):	<u>Southeast</u>
Groundwater Gradient (magnitude):	<u>0.01</u>

**DISCUSSION:**

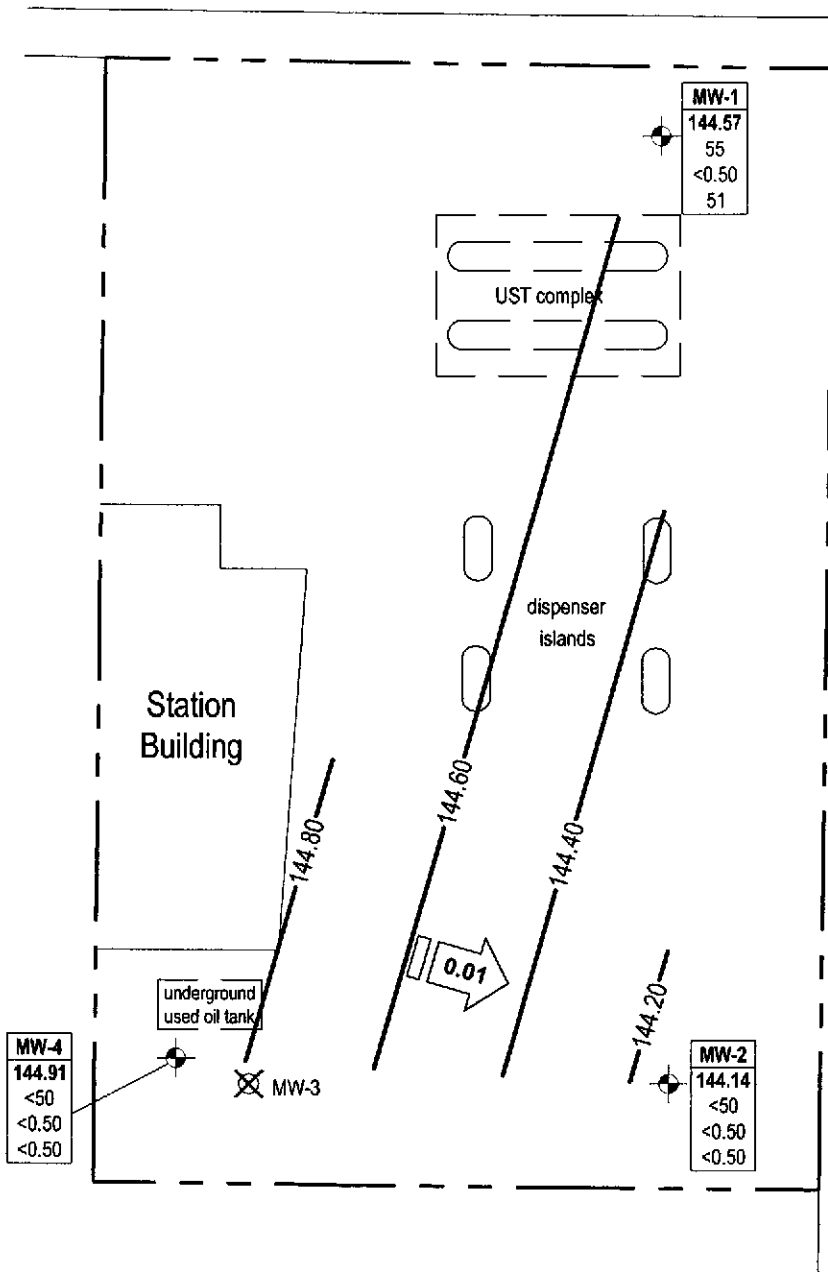
Gasoline range organics and methyl tert-butyl ether were detected at or above their respective laboratory reporting limits in one of the three wells sampled (MW-1) at concentrations of 55 micrograms per liter ( $\mu\text{g/L}$ ) and 51  $\mu\text{g/L}$ , respectively. No other fuel components were detected at or above their respective laboratory reporting limits in any of the wells sampled this quarter.

**ATTACHMENTS:**

- Figure 1– Groundwater Elevation Contour and Analytical Summary Map – February 24, 2006
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations

PORTER STREET

HIGH STREET

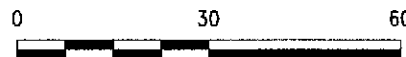


**EXPLANATION**

- Groundwater monitoring well
- ⊗ Abandoned monitoring well
- Well Designation
- ELEV - Groundwater elevation (ft MSL)
- GRO - GRO, Benzene & MTBE concentrations (µg/L)
- MTBE
- 144.20 Groundwater elevation (ft MSL)
- < Not detected at or above laboratory reporting limits
- 0.01 Groundwater flow direction and gradient (ft/ft)



NORTH



SCALE IN FEET

NOTE: SITE MAP ADAPTED FROM ALISTO ENGINEERING FIGURES.  
SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.

Mar 16, 2006 - 2:58pm  
X:\x\_emv1\_waste\BP\_GEM\_Sites\Niles\_Sites\1124\Reports\Monitoring\Qtr\_1\_2006\1124-1Q06-GW.dwg



Project No. 38487647  
Former BP Service Station #11124  
3315 High Street  
Oakland, California

**GROUNDWATER ELEVATION CONTOUR  
AND ANALYTICAL SUMMARY MAP**  
First Quarter 2006 (February 24, 2006)

FIGURE  
**1**

Table 1

Groundwater Elevation and Analytical Data

Former BP Station #11124  
3315 High St., Oakland, CA

Well No.	Date	P/ NP	TOC (ft MSL)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	Lab	pH	Comments	
MW-1	10/19/2004	P	154.99	10.50	--	144.49	<50	<0.50	<0.50	<0.50	<0.50	14	0.96	SEQM	6.9		
	01/13/2005	P	154.99	9.00	--	145.99	<50	<0.50	<0.50	<0.50	<0.50	33	2.5	SEQM	6.4		
	02/24/2006	P	154.99	10.42	--	144.57	55	<0.50	<0.50	<0.50	<0.50	51	--	SEQM	6.8	c	
MW-2	10/19/2004	--	152.02	9.45	--	142.57	--	--	--	--	--	--	--	--	--	--	b
	01/13/2005	P	152.02	6.43	--	145.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.47	SEQM	6.4		
	02/24/2006	P	152.02	7.88	--	144.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	6.7		
MW-4	10/19/2004	P	152.77	9.55	--	143.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	SEQM	7.0		
	01/13/2005	--	152.77	--	--	--	--	--	--	--	--	--	--	--	--	a	
	02/24/2006	P	152.77	7.86	--	144.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	SEQM	7.1		

**Table 1**

**Groundwater Elevation and Analytical Data**

Former BP Station #11124  
3315 High St., Oakland, CA

**ABBREVIATIONS AND SYMBOLS:**

--- = Not analyzed/measured/applicable  
< = Not detected at or above laboratory reporting limit  
DO = Dissolved oxygen  
ft bgs = Feet below ground surface  
ft MSL = Feet above mean sea level  
DTW = Depth to water in ft bgs  
GRO = Gasoline range organics  
GWE = Groundwater elevation in ft MSL  
mg/L = Milligrams per liter  
MTBE = Methyl tert-butyl ether  
NP = Well not purged prior to sampling  
P = Well purged prior to sampling  
TOC = Top of casing in ft MSL  
TPH-g = Total petroleum hydrocarbons as gasoline  
µg/L = Micrograms per liter  
SEQM = Sequoia Analytical Morgan Hill (Laboratory)

**FOOTNOTES:**

a = Well inaccessible.  
b = Well is dry.  
c = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.

**NOTES:**

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g 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.

Values for DO and pH were obtained through field measurements.

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

**Table 2**

**Fuel Additives Analytical Data**

Former BP Station #11124  
3315 High St., Oakland, CA

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)	Footnotes/ Comments
MW-1	10/19/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	
	01/13/2005	<100	<20	33	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/24/2006	<300	<20	51	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2	01/13/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	10/19/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

**Table 2**

**Fuel Additives Analytical Data**

Former BP Station #11124  
3315 High St., Oakland, CA

**ABBREVIATIONS AND SYMBOLS:**

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromomethane

µg/L = micrograms per liter

< = Not detected at or above laboratory reporting limit

**NOTES:**

All fuel oxygenate compounds are analyzed using EPA Method 8260B.



**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## FIELD PROCEDURES

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### 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>060224-MW2</u>	Station # <u>11124</u>
Sampler: <u>MW</u>	Date: <u>2/24/06</u>
Well I.D.: <u>32.10</u> <sup>MW</sup> <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>32.10</u>	Depth to Water: <u>10.42</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible Extraction Pump  Other: \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ 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>3.5</u>	x	<u>3</u>	=	<u>10.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <del>µS</del> )	Gals. Removed	Observations
<u>1018</u>	<u>67.8</u>	<u>7.3</u>	<u>330</u>	<u>3.5</u>	<u>cloudy</u>
<u>1022</u>	<u>68.6</u>	<u>6.9</u>	<u>337</u>	<u>7</u>	↓
<u>1025</u>	<u>69.0</u>	<u>6.8</u>	<u>349</u>	<u>10.5</u>	↓

Did well dewater? Yes  No  Gallons actually evacuated: 10.5

Sampling Time: ~~1025~~ 1030 Sampling Date: 2/24/06

Sample I.D.: MW-1 Laboratory: Pace Sequoia Other: \_\_\_\_\_

Analyzed for:  GRO  BTEX  MTBE  DRO  Oxy's  1,2-DCA  BDB  Ethanol Other: \_\_\_\_\_

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>06224-MW2</u>	Station # <u>1124</u>
Sampler: <u>MD</u>	Date: <u>2/24/06</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>9.62</u>	Depth to Water: <u>7.88</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method:  Bailer  ~~Disposable Bailer~~  Positive Air Displacement  Electric Submersible Extraction Pump  Other: \_\_\_\_\_

Sampling Method:  Bailer  ~~Disposable Bailer~~  Extraction Port  Other: \_\_\_\_\_

Top of Screen: \_\_\_\_\_ 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>0.3</u>	x	<u>3</u>	=	<u>0.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>1040</u>	<u>63.5</u>	<u>6.8</u>	<u>570</u>	<u>0.3</u>	<u>clear</u>
<u>1045</u>	<u>63.3</u>	<u>6.7</u>	<u>593</u>	<u>0.6</u>	↓
<u>1050</u>	<u>63.4</u>	<u>6.7</u>	<u>595</u>	<u>0.9</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 0.9

Sampling Time: 1100 Sampling Date: 2/24/06

Sample I.D.: MW-2 Laboratory: Pace Sequoia Other: \_\_\_\_\_

Analyzed for:  GRO  BTEX  MTBE  DRO  Day's  1,2-DCA  EDB  Ethanol Other: \_\_\_\_\_

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>060224-MW2</u>	Station # <u>1124</u>
Sampler: <u>MW</u>	Date: <u>2/24/06</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>3</u> 3 4 6 8
Total Well Depth: <u>30.29</u>	Depth to Water: <u>7.86</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer      Sampling Method: Bailer  
 Disposable Bailer       Disposable Bailer  
 Positive Air Displacement       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

Top of Screen: \_\_\_\_\_ 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>3.6</u>	x	<u>3</u>	=	<u>10.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1105	64.3	7.2	476	3.6	clear
1110	64.2	7.1	496	7.2	↓
1115	64.2	7.1	499	10.8	↓

Did well dewater? Yes  No  Gallons actually evacuated: 10.8

Sampling Time: 1125      Sampling Date: 2/24/06

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

Analyzed for:  GRO  BTEX  MTBE  DRO  Oxy  1,2-DCA  BDB  Ethanol      Other: \_\_\_\_\_

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

**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 PLAINE 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:

11124

Station #

3315 High st, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip. \_\_\_\_\_  
rinse water \_\_\_\_\_

any other adjustments \_\_\_\_\_

TOTAL GALS. RECOVERED 22

loaded onto BTS vehicle # 57

BTS event #

time 1200 date 2/24/06

signature

*[Handwritten Signature]*

REC'D AT

time 1300 date 2/24/06

unloaded by signature

*[Handwritten Signature]*

**ATTACHMENT B**

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



## **LABORATORY PROCEDURES**

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### **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 RM have been reviewed and verified by that laboratory.



15 March, 2006

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

RE: BP Heritage #11124, Oakland ,CA  
Work Order: MPC0074

Enclosed are the results of analyses for samples received by the laboratory on 02/27/06 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race  
Senior Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

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

 Project:BP Heritage #11124, Oakland, CA  
 Project Number:G099D-0008  
 Project Manager:Lynelle Onishi

 MPC0074  
 Reported:  
 03/15/06 14:44

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MPC0074-01	Water	02/24/06 10:30	02/27/06 17:55
MW-2	MPC0074-02	Water	02/24/06 11:00	02/27/06 17:55
MW-4	MPC0074-03	Water	02/24/06 11:20	02/27/06 17:55
TB-11124-02242006	MPC0074-04	Water	02/24/06 00:00	02/27/06 17:55

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:BP Heritage #11124, Oakland ,CA  
 Project Number:G099D-0008  
 Project Manager:Lynelle Onishi

 MPC0074  
 Reported:  
 03/15/06 14:44

### Volatile Organic Compounds by EPA Method 8260B

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (MPC0074-01) Water    Sampled: 02/24/06 10:30    Received: 02/27/06 17:55</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6C09030	03/09/06	03/10/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>51</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>55</b>	50	"	"	"	"	"	"	<b>PV</b>
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	60-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	70-120	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		112 %	65-130	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %	70-120	"	"	"	"	"	
<b>MW-2 (MPC0074-02) Water    Sampled: 02/24/06 11:00    Received: 02/27/06 17:55</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6C09030	03/09/06	03/10/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	<b>ND</b>	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	60-135	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %	70-120	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		108 %	65-130	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %	70-120	"	"	"	"	"	

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

 Project:BP Heritage #11124, Oakland, CA  
 Project Number:G099D-0008  
 Project Manager:Lynelle Onishi

 MPC0074  
 Reported:  
 03/15/06 14:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-4 (MPC0074-03) Water Sampled: 02/24/06 11:20 Received: 02/27/06 17:55</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6C09030	03/09/06	03/10/06	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	300	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %		60-135	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99 %		70-120	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %		65-130	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %		70-120	"	"	"	"	

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

 Project: BP Heritage #11124, Oakland, CA  
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 Project Manager: Lynelle Onishi

 MPC0074  
 Reported:  
 03/15/06 14:44

### 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 6C09030 - EPA 5030B P/T / EPA 8260B**
**Blank (6C09030-BLK1)**

Prepared &amp; Analyzed: 03/09/06

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	300	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.83		"	5.00		97	60-135			
<i>Surrogate: Toluene-d8</i>	5.22		"	5.00		104	70-120			
<i>Surrogate: Dibromofluoromethane</i>	5.40		"	5.00		108	65-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	4.62		"	5.00		92	70-120			

**Laboratory Control Sample (6C09030-BS1)**

Prepared &amp; Analyzed: 03/09/06

tert-Amyl methyl ether	15.0	0.50	ug/l	16.3		92	80-115			
Benzene	5.45	0.50	"	5.04		108	65-115			
tert-Butyl alcohol	159	20	"	169		94	75-150			
Di-isopropyl ether	15.4	0.50	"	16.2		95	75-125			
1,2-Dibromoethane (EDB)	16.1	0.50	"	16.6		97	85-120			
1,2-Dichloroethane	13.8	0.50	"	15.5		89	85-130			
Ethanol	146	300	"	165		88	70-135			
Ethyl tert-butyl ether	15.5	0.50	"	16.4		95	75-130			
Ethylbenzene	6.17	0.50	"	7.28		85	75-135			
Methyl tert-butyl ether	7.15	0.50	"	7.84		91	65-125			
Toluene	34.8	0.50	"	38.0		92	85-120			
Xylenes (total)	37.5	0.50	"	40.8		92	85-125			
Gasoline Range Organics (C4-C12)	445	50	"	440		101	60-140			
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.78		"	5.00		96	60-135			
<i>Surrogate: Toluene-d8</i>	5.51		"	5.00		110	70-120			
<i>Surrogate: Dibromofluoromethane</i>	5.10		"	5.00		102	65-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	5.01		"	5.00		100	70-120			

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.*

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

 Project:BP Heritage #11124, Oakland ,CA  
 Project Number:G099D-0008  
 Project Manager:Lynelle Onishi

 MPC0074  
 Reported:  
 03/15/06 14:44

**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 6C09030 - EPA 5030B P/T / EPA 8260B**

<b>Matrix Spike (6C09030-MS1)</b>		<b>Source: MPB1066-01</b>			<b>Prepared &amp; Analyzed: 03/09/06</b>					
tert-Amyl methyl ether	726	25	ug/l	816	26	86	80-115			
Benzene	268	25	"	252	ND	106	65-115			
tert-Butyl alcohol	7380	1000	"	8440	ND	87	75-120			
Di-isopropyl ether	746	25	"	812	23	89	75-125			
1,2-Dibromoethane (EDB)	807	25	"	832	ND	97	85-120			
1,2-Dichloroethane	704	25	"	776	9.0	90	85-130			
Ethanol	8270	15000	"	8240	440	95	70-135			
Ethyl tert-butyl ether	750	25	"	820	24	89	75-130			
Ethylbenzene	321	25	"	364	11	85	75-135			
Methyl tert-butyl ether	337	25	"	392	16	82	65-125			
Toluene	1750	25	"	1900	14	91	85-120			
Xylenes (total)	1960	25	"	2040	40	94	85-125			
Gasoline Range Organics (C4-C12)	21300	2500	"	22000	ND	97	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.17</i>		"	<i>5.00</i>		<i>63</i>	<i>60-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.39</i>		"	<i>5.00</i>		<i>108</i>	<i>70-120</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>4.95</i>		"	<i>5.00</i>		<i>99</i>	<i>65-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.23</i>		"	<i>5.00</i>		<i>105</i>	<i>70-120</i>			
<b>Matrix Spike Dup (6C09030-MSD1)</b>		<b>Source: MPB1066-01</b>			<b>Prepared &amp; Analyzed: 03/09/06</b>					
tert-Amyl methyl ether	688	25	ug/l	816	26	81	80-115	5	15	
Benzene	249	25	"	252	ND	99	65-115	7	20	
tert-Butyl alcohol	8040	1000	"	8440	ND	95	75-120	9	25	
Di-isopropyl ether	686	25	"	812	23	82	75-125	8	15	
1,2-Dibromoethane (EDB)	749	25	"	832	ND	90	85-120	7	15	
1,2-Dichloroethane	640	25	"	776	9.0	81	85-130	10	20	LN
Ethanol	8820	15000	"	8240	440	102	70-135	6	35	
Ethyl tert-butyl ether	690	25	"	820	24	81	75-130	8	25	
Ethylbenzene	310	25	"	364	11	82	75-135	3	15	
Methyl tert-butyl ether	318	25	"	392	16	77	65-125	6	20	
Toluene	1570	25	"	1900	14	82	85-120	11	20	LN
Xylenes (total)	1840	25	"	2040	40	88	85-125	6	20	
Gasoline Range Organics (C4-C12)	19700	2500	"	22000	ND	90	60-140	8	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.64</i>		"	<i>5.00</i>		<i>93</i>	<i>60-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>5.14</i>		"	<i>5.00</i>		<i>103</i>	<i>70-120</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>4.72</i>		"	<i>5.00</i>		<i>94</i>	<i>65-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>5.01</i>		"	<i>5.00</i>		<i>100</i>	<i>70-120</i>			

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.*

URS Corporation [Arco]  
1333 Broadway, Suite 800  
Oakland CA, 94612Project:BP Heritage #11124, Oakland ,CA  
Project Number:G099D-0008  
Project Manager:Lynelle OnishiMPC0074  
Reported:  
03/15/06 14:44**Notes and Definitions**

PV Hydrocarbon result partly due to individ. peak(s) in quant. range

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





# Chain of Custody Record

Project Name: Analytical for SSI sampling  
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 11124 > Historical/BL  
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr  
 Requested Due Date (mm/dd/yy): \_\_\_\_\_

On-site Time: <u>0940</u>	Temp: <u>65</u>
Off-site Time: <u>1200</u>	Temp: <u>65</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>11124</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>3315 High St., Oakland, CA</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race/ Katt Min</u>	California Global ID No.: <u>T0600100919</u>	Consultant/Contractor Project No.: <u>38487131</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	Enfos Project No.: <u>G099D-0008</u>	Consultant/Contractor PM: <u>Lynelle Onishi</u>
BP/AR PM Contact: <u>Kyle Christie</u>	Provision or RCOP: <u>RCOP</u>	Tele/Fax: <u>510.874.1758 / 510.874.3268</u>
Address: <u>4 Centerpointe Drive</u> <u>La Palma, CA 90623-1066</u>	Phase/WBS: <u>01 - Assessment</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>714.670.5303 / 714.670.5195</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>Donna Cospers@urscorp.com</u>
	Cost Element: <u>05 - Subcontracted Costs</u>	Invoice to: <u>Atlantic Richfield Company</u>

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GR0 / BTEX (8260)	MIBE, TAME, ETBE	DIPE, TBA (8260)	EDB, 1,2-DCA (8260)	Ethanol (8260)	
1	MW-1	1030	2/24/06	X			61	3			X	X	X						
2	MW-2	1100		X			62	3			X	X	X						
3	MW-4	1120		X			63	3			X	X	X						
4	TB-1124-02242006	-	2/24/06	X			64	2			X	LAB						on hold	
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>John DeJong</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>BTS</u>	<u>[Signature]</u>	<u>2/24/06</u>	<u>1356</u>	<u>[Signature]</u>	<u>2/24/06</u>	<u>1356</u>
Shipment Date:	<u>[Signature]</u>	<u>2/24/06</u>	<u>1400</u>	<u>[Signature]</u>	<u>2/24/06</u>	<u>1650</u>
Shipment Method:	<u>[Signature]</u>	<u>2/27</u>	<u>1755</u>	<u>[Signature]</u>	<u>2-27-06</u>	<u>1745</u>
Shipment Tracking No:						

Special Instructions: \_\_\_\_\_

Custody Seals In Place Yes  No  Temp Blank Yes  No  Cooler Temperature on Receipt 6.0 °C Trip Blank Yes  No

## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP 1124  
 REC. BY (PRINT) L.P.  
 WORKORDER: HP06074

DATE REC'D AT LAB: 2-27-06  
 TIME REC'D AT LAB: 17:55  
 DATE LOGGED IN: 3-4-03

For Regulatory Purposes?  
 DRINKING WATER YES/NO  
 WASTE WATER YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*	01	A-C	mw-1	Voc-3	HCL	-	L	2-24-06	22°C 10:30
2. Chain-of-Custody Present / Absent	02	↓	3	↓	↓	↓	↓	↓	11:00
3. Traffic Reports or Packing List: Present / Absent	03	↓	4	↓	↓	↓	↓	↓	11:20
4. Airbill: Airbill / Stickers Present / Absent	04	A, B	TB-11124-022000	Voc-2	↓	↓	↓	↓	↓
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Read Temp: <u>3.4C</u> Corrected Temp: <u>3.4C</u> Is corrected temp 4 +/- 2°C? Yes / No**									

78 2-27-06

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

**ATTACHMENT C**  
**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL**  
**CONFIRMATIONS**

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	3/16/2006 3:31:20 PM

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### UPLOADING A GEO\_WELL FILE

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**Submittal Title:** 1Q 2006 BP/ARCO 11124  
GOWELL

**Submittal Date/Time:** 3/16/2006 3:32:36 PM

**Confirmation  
Number:** 4132169961

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### SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	3/16/2006 3:34:38 PM
<u>GLOBAL ID:</u>	T0600100919
<u>FILE UPLOADED:</u>	BP#11124-EDF-MPC0074.zip

No errors were found in your EDF upload file.

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<b>BP</b> 3315 HIGH ST OAKLAND, CA 94619	<b>Regional Board - Case #: 01-0996</b> SAN FRANCISCO BAY RWQCB (REGION 2) <b>Local Agency (lead agency) - Case #: 1075</b> ALAMEDA COUNTY LOP - (RWS)
--	---

#### SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

#### METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

#### QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

#### WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.

## Electronic Submittal Information

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**Confirmation Number:** 3783080458  
**Date/Time of Submittal:** 3/16/2006 3:35:38 PM  
**Facility Global ID:** T0600100919  
**Facility Name:** BP  
**Submittal Title:** 1Q 2006 BP/ARCO 11124 EDF  
**Submittal Type:** GW Monitoring Report

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<b>BP</b> 3315 HIGH ST OAKLAND, CA 94619	<b>Regional Board - Case #: 01-0996</b> SAN FRANCISCO BAY RWQCB (REGION 2) <b>Local Agency (lead agency) - Case #: 1075</b> ALAMEDA COUNTY LOP - (RWS)
--	---

<b>CONF #</b>	<b>TITLE</b>	<b>QUARTER</b>
3783080458	1Q 2006 BP/ARCO 11124 EDF	Q1 2006
<b>SUBMITTED BY</b>	<b>SUBMIT DATE</b>	<b>STATUS</b>
Srijesh Thapa	3/16/2006	PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

**METHOD QA/QC REPORT**

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	Y

**QA/QC FOR 8021/8260 SERIES SAMPLES**

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

**WATER SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a



BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.