



February 25, 2003

Ms. Eva Chu  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Re: Fourth Quarter 2002 Groundwater Monitoring Report  
Former BP Service Station # 11120  
6400 Dublin Road  
Dublin, California  
URS Project #38486244**


Dear Ms. Chu:

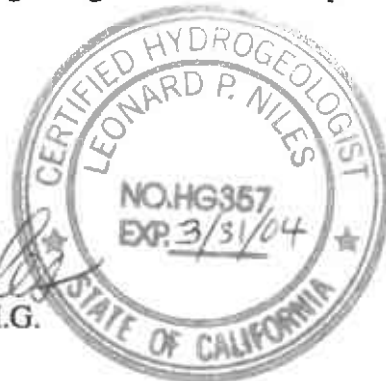
On behalf of BP (an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Groundwater Monitoring Report* for the Former BP Service Station #11120, located at 6400 Dublin Road, Dublin, California.

If you have any questions regarding this submission, please call (510) 874-1720.

Sincerely,

**URS CORPORATION**

  
Leonard P. Niles, R.G./C.H.G.  
Senior Geologist



Enclosure: Fourth Quarter 2002 Groundwater Monitoring Report

cc: Scott Hooton, BP GEM, Environmental Resources Management, 295 SW 41<sup>st</sup> Street, Building 13, Suite N, Renton, WA 98055-4931.  
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento CA 95212

**R E P O R T**

**FOURTH QUARTER 2002  
GROUNDWATER MONITORING**

**FORMER BP SERVICE STATION #11120  
6400 DUBLIN ROAD  
DUBLIN, CALIFORNIA**

*Prepared for*  
**BP GEM**

February 25, 2002

**URS**

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

38485999



Date: February 25, 2003

Quarter: 4Q02

### BP QUARTERLY GROUNDWATER MONITORING REPORT

Former Facility No.: 11120 Address: 6400 Dublin Road, Dublin, CA  
BP Environmental Engineer: Scott Hooton  
Consulting Co./Contact Person: URS Corporation / Leonard Niles  
Consultant Project No.: 38485999  
Primary Agency/Regulatory ID No.: Alameda County Health Care Services

#### WORK PERFORMED THIS QUARTER (Fourth – 2002):

1. Performed fourth quarter 2002 groundwater monitoring event on December 13, 2002.
2. Prepared and submitted third quarter 2002 groundwater monitoring report

#### WORK PROPOSED FOR NEXT QUARTER (First – 2003):

1. Perform first quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2002 groundwater monitoring report.

Current Phase of Project: GW monitoring/sampling  
Frequency of Groundwater Sampling: Wells MW-8 through MW-11 quarterly  
Frequency of Groundwater Monitoring: Quarterly  
Is Free Product (FP) Present On-Site: No  
Current Remediation Techniques: None currently  
Approximate Depth to Groundwater: 5.81 (MW-8) to 6.60 (MW-11) Feet  
Groundwater Gradient (direction): Southeast  
Groundwater Gradient (magnitude): 0.022 feet per foot

#### DISCUSSION:

TPH-g was detected in one of the four wells sampled at a concentration of 1,300 µg/L (MW-11). Benzene was not detected in any of the four wells sampled. MTBE was detected in two of the four wells sampled at concentrations of 6.4 µg/L (MW-8) and 2,000 µg/L (MW-11). Confirmed using EPA Method 8260, MTBE was detected in three of four wells sampled at concentrations ranging from 0.53 µg/L (MW-9) to 1,400 µg/L (MW-11). Groundwater flow direction was generally to the southeast at a calculated hydraulic gradient of 0.022 feet per foot.

## ATTACHMENTS:

- Table 1 – Groundwater Elevation and Analytical Data
- Figure 1– Groundwater Elevation Contour and Analytical Summary Map – December 13, 2002
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – EDCC Report and EDF/Geowell Submittal Confirmation
- Attachment D – Historical groundwater Analytical Data for Former Wells Abandoned in 1999 (Source Alisto Engineering)

**Table 1**  
**Groundwater Elevation and Analytical Data**  
Former BP Service Station #11120  
6400 Dublin Road, Dublin, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	GWE (Feet)	TPH-G (b) (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	MTBE(c) (8260 B) (ug/l)	Additional Oxygenates & Pb Scavengers(d) (ug/l)	DO (ppm)	LAB
MW-8	2/25/2002	328.94	6.02	322.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.98	NA	NA	---	PACE
	9/30/2002	328.94	6.16	322.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.8	2.9	ND <sup>(e)</sup>	---	SEQ
	12/13/2002	328.94	5.81	323.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	5.9	ND <sup>(e)</sup>	---	SEQ
MW-9	2/25/2002	329.96	5.90	324.06	ND<250	ND<2.50	ND<2.50	ND<2.50	ND<5.00	ND<2.50	NA	NA	---	PACE
	9/30/2002	329.96	6.92	323.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	1.4	ND <sup>(e)</sup>	---	SEQ
	12/13/2002	329.96	6.51	323.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.53	ND <sup>(e)</sup>	---	SEQ
MW-10	2/25/2002	327.44	4.21	323.23	53	2.58	ND<0.5	2.83	8.46	ND<0.5	NA	NA	---	PACE
	9/30/2002	327.44	4.71	322.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	0.51	ND <sup>(e)</sup>	---	SEQ
	12/13/2002	327.44	6.36	321.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5	ND <sup>(e)</sup>	---	SEQ
MW-11	2/25/2002	329.75	6.02	323.73	1800	1.34	ND<0.5	ND<0.5	ND<1.0	2550	NA	NA	---	PACE
	9/30/2002	329.75	7.12	322.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	1500	ND <sup>(e)</sup>	---	SEQ
	12/13/2002	329.75	6.60	323.15	1,300	ND<10	ND<10	ND<10	ND<10	2,000	1,400	ND <sup>(e)</sup>	---	SEQ

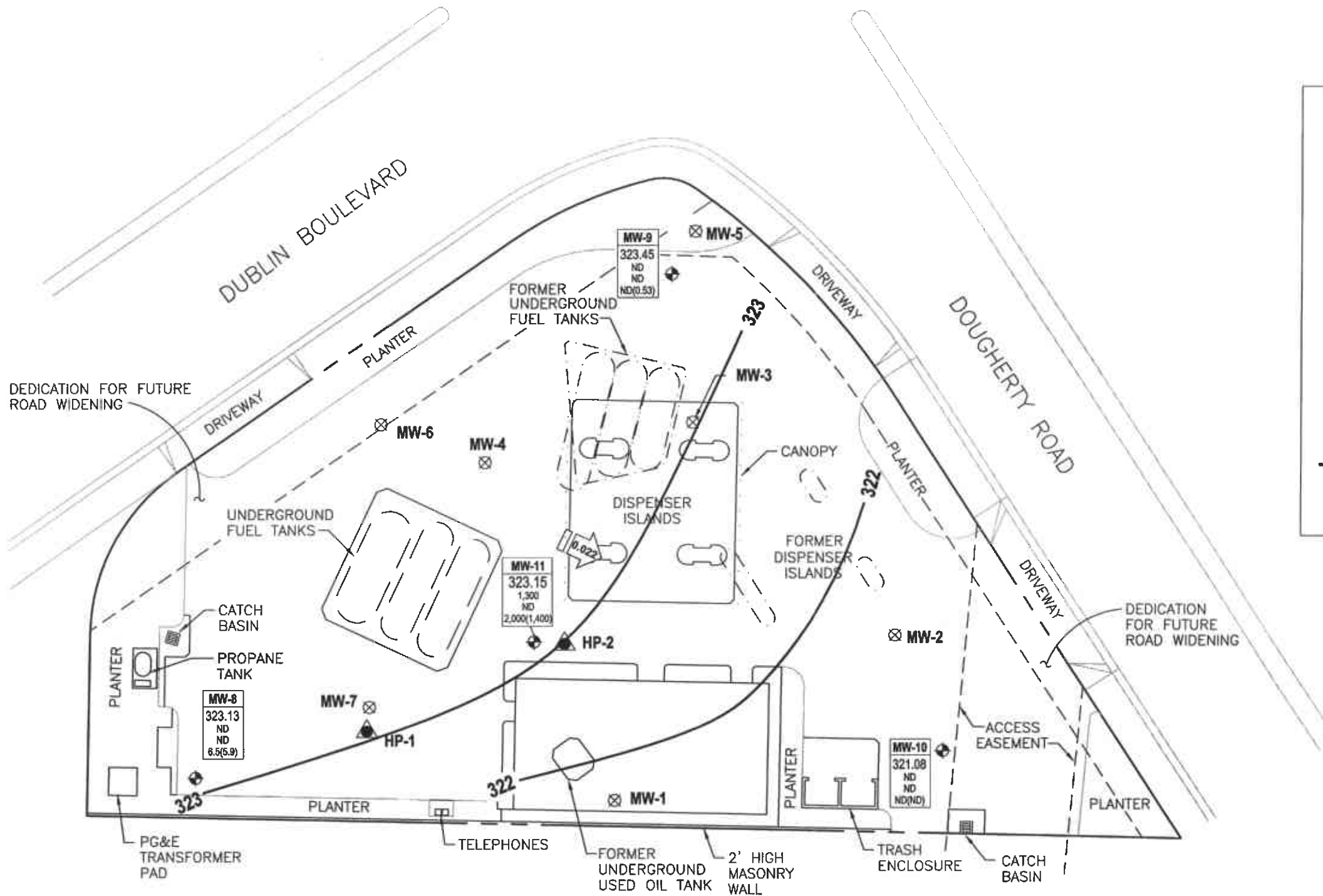
ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline by EPA method 8015 B Modified.
B	Benzene by EPA method 8021 B
T	Toluene by EPA method 8021 B
E	Ethylbenzene by EPA method 8021 B
X	Total xylenes by EPA method 8021 B
MTBE	Methyl tert butyl ether by EPA method 8021 B
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not applicable/analyzed/measured
SEQ	Sequoia Analytical Laboratory
TOC	Top of Casing
DTW	Depth to Water
GWE	Groundwater Elevation

NOTES:

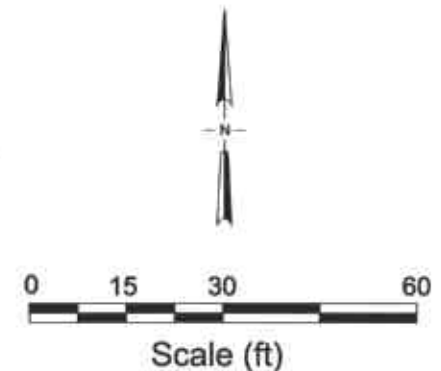
(a)	Top of casing elevations surveyed relative to an elevation of 18,409 feet above mean sea level.
(b)	Groundwater elevations in feet above mean sea level.
(c)	Analyzed by EPA method 8260 B
(d)	Analyzed by EPA method 8260 B; fuel oxygenates include ethanol, tert-butyl alcohol (TBA), di-isopropyl ether (DIPB), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME); lead scavengers include 1,2 dichloroethane (1,2-DCA) & ethylene diamine (EDB)
(e)	Not detected above laboratory reporting limit, refer to analytical reports

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



**LEGEND**

- ⊗ Destroyed groundwater monitoring well
- ▲ Grab groundwater sample location May 14, 1999
- AS-1 ⊕ Air sparge well
- Well ID: Well Designation
- ELEV: Groundwater Elevation above MSL
- TPHg, Benzene, MTBE: Concentration of TPH-g, Benzene and MTBE in groundwater in micrograms per liter (µg/L)
- ND: Not detected
- NS: Not sampled
- (x): Confirmed using EPA method 8260
- 240.00: Groundwater elevation contour
- ← 0.022: Approximate groundwater flow direction and gradient (ft/MSL)



X:\x\_env\waste\BP GEIS\Site\Utilities\Sheet11120-new\Records\Monitoring\Dr.A.2002\Drawings\GWEC-AS\_12-13.dwg

<b>URS</b>	Project No. 38486244	<b>Groundwater Elevation Contour and Analytical Summary Map</b> Fourth Quarter 2002 (December 13, 2002)	FIGURE <b>1</b>
	Former BP Station #11120 6200 Dublin Boulevard Dublin, California		

**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.



# WELL GAUGING DATA

Project # 021213-BAB Date 12/13/02 Client BP 11120

Site 6400 DUBLIN BLVD, DUBLIN

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-8	2					5.81	19.68 <del>19.62</del>	TOC	✓
MW-9	2					6.51	19.72 <del>19.67</del>	↓	✓
MW-10	2	pressure - ALLOWED TO STABILIZE				6.36	19.66 <del>19.60</del>		✓
MW-11	2			SMW		6.60	19.52 <del>19.43</del>		✓

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <b>021213-BAB</b>	Station # <b>11120</b>
Sampler: <b>BRIAN ALLEN</b>	Date: <b>12/13/02</b>
Well I.D.: <b>MW-8</b>	Well Diameter: <b>(2)</b> 3 4 6 8 _____
Total Well Depth: <b>19.68</b>	Depth to Water: <b>5.81</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> 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: <b>Bailer</b> Disposable Bailer <b>(Middleburg)</b> Electric Submersible Extraction Pump Other: _____	Sampling Method: <b>Bailer</b> <b>(Disposable Bailer)</b> Extraction Port Other: _____
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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>2.2</u>	X	<u>3</u>	=	<u>6.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <b>(µS)</b> )	Gals. Removed	Observations
1535	65.5	7.8	3626	2.25	very cloudy gray
1538	66.7	7.0	3535	4.5	"
1541	66.3	7.0	3489	6.75	"

Did well dewater? Yes <b>(No)</b>	Gallons actually evacuated: <b>7</b>
Sampling Time: <b>1545</b>	Sampling Date: <b>12/13/02</b>
Sample I.D.: <b>MW-8</b>	Laboratory: Pace <b>(Sequoia)</b> Other _____
Analyzed for: <b>(TPH-G BTEX MTBE)</b> PH-D Other: <b>OXYS, ETHANOL, 1,2-DCA, TCE, DBP</b>	
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 #: <b>021213-BA3</b>	Station # <b>1120</b>
Sampler: <b>BRIAN ALLEN</b>	Date: <b>12/13/02</b>
Well I.D.: <b>MW-9</b>	Well Diameter: <b>(2)</b> 3 4 6 8
Total Well Depth: <b>19.72</b>	Depth to Water: <b>6.51</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> 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: <b>Bailer</b>	Sampling Method: <b>Bailer</b>
<b>Disposable Bailer</b>	<b>Disposable Bailer</b>
<b>(Middleburg)</b>	<b>Extraction Port</b>
<b>Electric Submersible Extraction Pump</b>	Other: _____
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.

<b>2.1</b>	X	<b>3</b>	=	<b>6.3</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <b>(uS)</b> )	Gals. Removed	Observations
1615	66.8	7.5	1321	2.0	Very cloudy gray
1617	67.1	7.4	1300	4.0	"
1621	66.9	7.5	1245	6.0	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <b>6</b>
Sampling Time: <b>1625</b>	Sampling Date: <b>12/13/02</b>
Sample I.D.: <b>MW-9</b>	Laboratory: Pace <b>(Sequoia)</b> Other _____
Analyzed for: <b>TPH-G BTEX MTBE</b> TPH-D Other: <b>DNYS, ETHANOL, 1,2-DCA, FEEDS</b>	
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 #: <b>021213-BA3</b>	Station #: <b>1120</b>
Sampler: <b>BRIAN ALLEN</b>	Date: <b>12/13/02</b>
Well I.D.: <b>MW-10</b>	Well Diameter: <b>(2)</b> 3 4 6 8 _____
Total Well Depth: <b>19.66</b>	Depth to Water: <b>6.36</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grnde	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  
 **(Middleburg)**       Extraction Port  
 Electric Submersible  
 Extraction Pump  
 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.

<b>2.1</b>	X	<b>3</b>	=	<b>6.3</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <b>(US)</b> )	Gals. Removed	Observations
1514	67.1	6.8	8829	2.0	Very cloudy gray
1516	67.4	6.8	7832	4.0	"
1518	68.3	6.8	8063	6.0	"

Did well dewater? Yes  No  Gallons actually evacuated: **6**

Sampling Time: **1520**      Sampling Date: **12/13/02**

Sample I.D.: **MW-10**      Laboratory: Pace **(Sequoia)** Other \_\_\_\_\_

Analyzed for: **(TPH-G BTEX MTBE)** TPH-D Other: **OXYS, ETHANOL, 1,2-DCM, PCE**

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 #: <b>021213-BA3</b>	Station # <b>1120</b>
Sampler: <b>BRIAN ALCOX</b>	Date: <b>12/13/02</b>
Well I.D.: <b>MW-11</b>	Well Diameter: <b>(2)</b> 3 4 6 8
Total Well Depth: <b>19.52</b>	Depth to Water: <b>6.60</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> 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

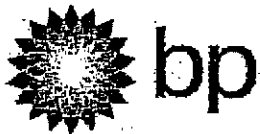
Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> <b>(Middleburg)</b> <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> <b>(Disposable Bailer)</b> <input type="checkbox"/> Extraction Port Other: _____
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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.

<b>2.1</b>	X	<b>3</b>	=	<b>6.3</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
1556	66.8	7.3	2376	2.0	very cloudy gray mild odor
1558	67.1	7.0	2295	4.0	"
1601	66.8	7.1	2269	6.0	"

Did well dewater? Yes <input type="checkbox"/> <b>(No)</b>	Gallons actually evacuated: <b>6</b>
Sampling Time: <b>1605</b>	Sampling Date: <b>12/13/02</b>
Sample I.D.: <b>MW-11</b>	Laboratory: Pace <b>(Sequoia)</b> Other _____
Analyzed for: <b>(TPH-G BTEX MTBE)</b> TPH-D Other: <b>OXYS, ETHANOL, 1,2-DCA, FDB</b>	
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



# Chain of Custody Record

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

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

Date: 12/13/02 Requested Due Date (mm/dd/yy) Standard

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 6400 Dublin Ave., Dublin, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11120	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600101432	Consultant/Contractor Project No.:
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Hooton	Consultant Tele/Fax: 510-874-3115 / 510-874-3268
Tele/Fax: 408-778-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or <u>BP/GEM</u> (circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	BP/GEM Work Release No:

Bottle Order No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis					Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-G/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, ETBE DPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	MW-8	1545		X			6					X	X	X	X	X		
2	MW-9	1625		X			6					X	X	X	X	X		
3	MW-10	1520		X			6					X	X	X	X	X		
4	MW-11	1605		X			6					X	X	X	X	X		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Brian Allen</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>BLANK TECH SERVICES</u>						
Releasement Date:						
Releasement Method:						
Releasement Tracking No:						

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

Study Seals In Place Yes \_\_\_ No \_\_\_ Temperature Blank Yes \_\_\_ No \_\_\_ Cooler Temperature on Receipt \_\_\_ °F/C \_\_\_ Trip Blank Yes \_\_\_ No \_\_\_

# WELLHEAD INSPECTION CHECKLIST

Client BP 11120 Date 12/13/02

Site Address 6400 DUBLIN BLVD, DUBLIN

Job Number 021213-BA3 Technician BRIAN ALLEN

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-8				X	X			
MW-9				X	X			
MW-10		X		X	X			
MW-11				X	X			

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**BP GEM OIL COMPANY TYPE A BILL OF LADING**

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

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

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

11120

Station #

6400 DUBLIN BLVD, DUBLIN

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

25

added equip. rinse water 5

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

TOTAL GALS. RECOVERED 30

loaded onto BTS vehicle # 14

BTS event # 021213-BA3 time 1645 date 12/13/02

signature 

\*\*\*\*\*

REC'D AT \_\_\_\_\_ time \_\_\_\_\_ date 1/1

unloaded by signature \_\_\_\_\_



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

## **LABORATORY PROCEDURES**

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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 Group Environmental Management Company have been reviewed and verified by that laboratory.



3 January, 2003

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

RE: BP Heritage Site #11120, Dublin, CA  
Sequoia Work Order: MLL0590

Enclosed are the results of analyses for samples received by the laboratory on 12/16/02 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt  
Project Manager  
CA ELAP Certificate #1210



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

Project: BP Heritage Site #11120, Dublin, CA  
Project Number: BP Heritage Site #11120, Dublin, CA  
Project Manager: Robert Horwath

MLL0590  
**Reported:**  
01/03/03 13:00

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	MLL0590-01	Water	12/13/02 15:45	12/16/02 18:00
MW-9	MLL0590-02	Water	12/13/02 16:25	12/16/02 18:00
MW-10	MLL0590-03	Water	12/13/02 15:20	12/16/02 18:00
MW-11	MLL0590-04	Water	12/13/02 16:05	12/16/02 18:00

There wer no custody seals that were received with this project.

URS Corporation  
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 Oakland CA, 94607

 Project: BP Heritage Site #11120, Dublin, CA  
 Project Number: BP Heritage Site #11120, Dublin, CA  
 Project Manager: Robert Horwath

 MLL0590  
**Reported:**  
 01/03/03 13:00

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MLL0590-01) Water Sampled: 12/13/02 15:45 Received: 12/16/02 18:00</b>									
Ethanol	ND	40	ug/l	1	2L27037	12/26/02	12/27/02	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>5.9</b>	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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>115 %</i>		<i>78-129</i>					
<b>MW-9 (MLL0590-02) Water Sampled: 12/13/02 16:25 Received: 12/16/02 18:00</b>									
Ethanol	ND	40	ug/l	1	2L27037	12/26/02	12/27/02	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>0.53</b>	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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>		<i>78-129</i>					
<b>MW-10 (MLL0590-03) Water Sampled: 12/13/02 15:20 Received: 12/16/02 18:00</b>									
Ethanol	ND	40	ug/l	1	2L27037	12/26/02	12/27/02	EPA 8260B	
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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>124 %</i>		<i>78-129</i>					<i>O-09</i>

URS Corporation  
500 12th Street, Suite 100  
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Project: BP Heritage Site #11120, Dublin, CA  
Project Number: BP Heritage Site #11120, Dublin, CA  
Project Manager: Robert Horwath

MLL0590  
**Reported:**  
01/03/03 13:00

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-11 (MLL0590-04) Water</b> <b>Sampled: 12/13/02 16:05</b> <b>Received: 12/16/02 18:00</b>									
Ethanol	ND	4000	ug/l	100	2L27037	12/26/02	12/27/02	EPA 8260B	
tert-Butyl alcohol	ND	2000	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1400</b>	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82.8 %		78-129	"	"	"	"	O-09



URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: BP Heritage Site #11120, Dublin, CA Project Number: BP Heritage Site #11120, Dublin, CA Project Manager: Robert Horwath	MLL0590 <b>Reported:</b> 01/03/03 13:00
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-8 (MLL0590-01) Water    Sampled: 12/13/02 15:45    Received: 12/16/02 18:00</b>									
Gasoline Range Organics	ND	50	ug/l	1	2120772	12/27/02	12/27/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	6.4	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %		65-135	"	"	"	"	
<b>MW-9 (MLL0590-02) Water    Sampled: 12/13/02 16:25    Received: 12/16/02 18:00</b>									
Gasoline Range Organics	ND	50	ug/l	1	2120772	12/27/02	12/27/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		65-135	"	"	"	"	
<b>MW-10 (MLL0590-03) Water    Sampled: 12/13/02 15:20    Received: 12/16/02 18:00</b>									
Gasoline Range Organics	ND	50	ug/l	1	2120772	12/27/02	12/27/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		65-135	"	"	"	"	

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 Oakland CA, 94607

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 Project Manager: Robert Horwath

 MLL0590  
**Reported:**  
 01/03/03 13:00

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-11 (MLL0590-04) Water    Sampled: 12/13/02 16:05    Received: 12/16/02 18:00</b>									
<b>Gasoline Range Organics</b>	<b>1300</b>	1000	ug/l	20	2120771	12/27/02	12/27/02	EPA 8015B/8021B	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2000</b>	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99 %		65-135	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93 %		65-135	"	"	"	"	





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Project Manager: Robert Horwath

MLL0590  
Reported:  
01/03/03 13:00

**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 2L27037 - EPA 5035**

**Blank (2L27037-BLK1)**

Prepared & Analyzed: 12/26/02

Ethanol	ND	40	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	"							

*Surrogate: 1,2-Dichloroethane-d4*      4.86      "      5.00      97.2      78-129

**Blank (2L27037-BLK2)**

Prepared: 12/26/02 Analyzed: 12/27/02

Ethanol	ND	40	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	"							

*Surrogate: 1,2-Dichloroethane-d4*      5.05      "      5.00      101      78-129      O-09

**Laboratory Control Sample (2L27037-BS1)**

Prepared & Analyzed: 12/26/02

Methyl tert-butyl ether	9.22	0.50	ug/l	10.0		92.2	63-137			
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*Surrogate: 1,2-Dichloroethane-d4*      4.94      "      5.00      98.8      78-129

**Laboratory Control Sample (2L27037-BS2)**

Prepared: 12/26/02 Analyzed: 12/27/02

Methyl tert-butyl ether	11.0	0.50	ug/l	10.0		110	63-137			
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*Surrogate: 1,2-Dichloroethane-d4*      5.61      "      5.00      112      78-129      O-09

URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: BP Heritage Site #11120, Dublin, CA Project Number: BP Heritage Site #11120, Dublin, CA Project Manager: Robert Horwath	MLL0590 <b>Reported:</b> 01/03/03 13:00
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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
<b>Batch 2L27037 - EPA 5035</b>										
<b>Laboratory Control Sample Dup (2L27037-BSD1)</b>					Prepared: 12/26/02 Analyzed: 12/27/02					
Methyl tert-butyl ether	5.73	0.50	ug/l	10.0		57.3	63-137	46.7	13	Q-LIM
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.00</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>78-129</i>			
<b>Laboratory Control Sample Dup (2L27037-BSD2)</b>					Prepared: 12/26/02 Analyzed: 12/27/02					
Methyl tert-butyl ether	12.0	0.50	ug/l	10.0		120	63-137	8.70	13	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.73</i>		<i>"</i>	<i>5.00</i>		<i>115</i>	<i>78-129</i>			<i>O-09</i>

URS Corporation  
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 MLL0590  
 Reported:  
 01/03/03 13:00

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120771 - EPA 5030, waters**
**Blank (2120771-BLK1)**

Prepared &amp; Analyzed: 12/27/02

Gasoline Range Organics	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	304		"	300		101	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	276		"	300		92	65-135			

**Laboratory Control Sample (2120771-BS1)**

Prepared &amp; Analyzed: 12/27/02

Gasoline Range Organics	2650	50	ug/l	2750		96	65-135			
Benzene	41.5	0.50	"	34.0		122	65-135			
Toluene	209	0.50	"	208		100	65-135			
Ethylbenzene	47.9	0.50	"	49.0		98	65-135			
Xylenes (total)	224	0.50	"	241		93	65-135			
Methyl tert-butyl ether	65.7	2.5	"	56.0		117	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	337		"	300		112	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	298		"	300		99	65-135			

**Matrix Spike (2120771-MS1)**

Source: P212485-03

Prepared &amp; Analyzed: 12/27/02

Gasoline Range Organics	2700	50	ug/l	2750	28	97	65-135			
Benzene	40.9	0.50	"	34.0	ND	120	65-135			
Toluene	202	0.50	"	208	0.34	97	65-135			
Ethylbenzene	46.4	0.50	"	49.0	ND	95	65-135			
Xylenes (total)	221	0.50	"	241	0.41	92	65-135			
Methyl tert-butyl ether	115	2.5	"	56.0	60	98	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	329		"	300		110	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	299		"	300		100	65-135			

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  
 500 12th Street, Suite 100  
 Oakland CA, 94607

 Project: BP Heritage Site #11120, Dublin, CA  
 Project Number: BP Heritage Site #11120, Dublin, CA  
 Project Manager: Robert Horwath

 MLL0590  
**Reported:**  
 01/03/03 13:00

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120771 - EPA 5030, waters**
**Matrix Spike Dup (2120771-MSD1)**
**Source: P212485-03**
**Prepared & Analyzed: 12/27/02**

Gasoline Range Organics	2750	50	ug/l	2750	28	99	65-135	2	20	
Benzene	42.0	0.50	"	34.0	ND	124	65-135	3	20	
Toluene	209	0.50	"	208	0.34	100	65-135	3	20	
Ethylbenzene	48.2	0.50	"	49.0	ND	98	65-135	4	20	
Xylenes (total)	227	0.50	"	241	0.41	94	65-135	3	20	
Methyl tert-butyl ether	116	2.5	"	56.0	60	100	65-135	0.9	20	

*Surrogate: a,a,a-Trifluorotoluene*      329      "      300      110      65-135

*Surrogate: 4-Bromofluorobenzene*      292      "      300      97      65-135

**Batch 2120772 - EPA 5030, waters**
**Blank (2120772-BLK1)**
**Prepared & Analyzed: 12/27/02**

Gasoline Range Organics	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							

*Surrogate: a,a,a-Trifluorotoluene*      283      "      300      94      65-135

*Surrogate: 4-Bromofluorobenzene*      298      "      300      99      65-135

**Laboratory Control Sample (2120772-BS1)**
**Prepared & Analyzed: 12/27/02**

Gasoline Range Organics	2570	50	ug/l	2750		93	65-135			
Benzene	40.9	0.50	"	34.0		120	65-135			
Toluene	208	0.50	"	208		100	65-135			
Ethylbenzene	43.4	0.50	"	49.0		89	65-135			
Xylenes (total)	221	0.50	"	241		92	65-135			
Methyl tert-butyl ether	53.3	2.5	"	56.0		95	65-135			

*Surrogate: a,a,a-Trifluorotoluene*      319      "      300      106      65-135

*Surrogate: 4-Bromofluorobenzene*      325      "      300      108      65-135

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 MLL0590  
**Reported:**  
 01/03/03 13:00

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2120772 - EPA 5030, waters**
**Matrix Spike (2120772-MS1)**

Source: P212485-08

Prepared &amp; Analyzed: 12/27/02

Gasoline Range Organics	2500	50	ug/l	2750	120	87	65-135			
Benzene	40.6	0.50	"	34.0	ND	119	65-135			
Toluene	205	0.50	"	208	0.44	98	65-135			
Ethylbenzene	43.4	0.50	"	49.0	0.94	87	65-135			
Xylenes (total)	219	0.50	"	241	0.52	91	65-135			
Methyl tert-butyl ether	222	2.5	"	56.0	140	146	65-135			QM-07
<hr/>										
Surrogate: <i>a,a,a</i> -Trifluorotoluene	329		"	300		110	65-135			
Surrogate: 4-Bromofluorobenzene	301		"	300		100	65-135			

**Matrix Spike Dup (2120772-MSD1)**

Source: P212485-08

Prepared &amp; Analyzed: 12/27/02

Gasoline Range Organics	2620	50	ug/l	2750	120	91	65-135	5	20	
Benzene	40.4	0.50	"	34.0	ND	119	65-135	0.5	20	
Toluene	207	0.50	"	208	0.44	99	65-135	1	20	
Ethylbenzene	43.6	0.50	"	49.0	0.94	87	65-135	0.5	20	
Xylenes (total)	221	0.50	"	241	0.52	91	65-135	0.9	20	
Methyl tert-butyl ether	213	2.5	"	56.0	140	130	65-135	4	20	
<hr/>										
Surrogate: <i>a,a,a</i> -Trifluorotoluene	324		"	300		108	65-135			
Surrogate: 4-Bromofluorobenzene	328		"	300		109	65-135			



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MLL0590  
**Reported:**  
01/03/03 13:00

### Notes and Definitions

- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



# Chain of Custody Record

MLL0590

Project Name \_\_\_\_\_  
 BP BU/GEM CO Portfolio: \_\_\_\_\_  
 BP Laboratory Contract Number: \_\_\_\_\_  
 Date: 12/13/02 Requested Due Date (mm/dd/yy) Standard

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

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 6400 Dublin Ave., Dublin, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. 11120	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail BDD: syed_rehan@urscorp.com
	California Global ID #: T0600101432	Consultant/Contractor Project No.:
Lab PM: Latonya Pelt	BP/GEM PM Contact: Scott Hooton	Consultant Tele/Fax: 510-874-3115 / 510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Robert Horwath
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.: 400-6-21124	Tele/Fax:	BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH/G/TEX (8015/8021)	TPH-D (8015)	MTHH (8021)	MIBB, TAME, BTBE, EPE, TEA (8260)	1,2-DCA & EDB (8260)	
1	MW-8 ✓	1545	X				01	6				X	X	X	X	X		
2	MW-9 ✓	1625	X				02	6				X	X	X	X	X		
3	MW-10 ✓	1520	X				03	6				X	X	X	X	X		
4	MW-11 ✓	1605	X				04	6				X	X	X	X	X		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Brian Alford</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>12/13/02</u>	Time: <u>1056</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>12/14/02</u>	Time: <u>1056</u>
Sampler's Company: <u>Blank Tech Services</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						

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

Dry Seals In Place Yes  No 
 Temperature Blank Yes  No 
 Cooler Temperature on Receipt  NO
 Trip Blank Yes  No

**SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG**

CLIENT NAME: URS  
 REC. BY (PRINT): HT  
 WORKORDER: MLL0590

DATE Received at Lab: 12/12/02  
 TIME Received at Lab: 1300  
 LOG IN DATE: 12-18-02

Drinking water for regulatory purposes: YES /  NO  
 Wastewater for regulatory purposes: YES /  NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <input checked="" type="radio"/> Absent Intact / Broken*	01		MW-8	6 can HDL	L	12/13	Lot B 2116020
2. Chain-of-Custody	<input checked="" type="radio"/> Present / Absent*	02		MW 9	↓	↓	↓	↓
3. Traffic Reports or Packing List:	Present / <input checked="" type="radio"/> Absent	03		↓ 10	↓	↓	↓	↓
4. Airbill:	Airbill / Sticker Present / <input checked="" type="radio"/> Absent	04		↓ 11	↓	↓	↓	↓
5. Airbill #:								
6. Sample Labels:	<input checked="" type="radio"/> Present / Absent							
7. Sample IDs:	<input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	<input checked="" type="radio"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	<input checked="" type="radio"/> Yes / No*							
10. Sample received within hold time:	<input checked="" type="radio"/> Yes / No*							
11. Proper Preservatives used:	<input checked="" type="radio"/> Yes / No*							
12. Temp Rec. at Lab:	<u>2°C</u>							
(Acceptance range for samples requiring thermal pres.: 4+/-2°C)	<input checked="" type="radio"/> Yes / No**							
**Exception (if any):								

**\*If Circled, contact Project Manager and attach record of resolution.**



**ATTACHMENT C**

**EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION**

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## Error Summary Log

01/30/03

EDF 1.2i All files present in deliverable.

---

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage Site #11120,
Work Order Number:	MLL0590
Global ID:	T0600101432
Lab Report Number:	MLL0590010320031300

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MLL05900103200 31300	MW-10	MLL059003	W	CS	8260+OX	SW5035	12/13/02	12/26/02	12/27/02	2L27037	1	
MLL05900103200 31300	MW-10	MLL059003	W	CS	SW8020F	SW5030	12/13/02	12/27/02	12/27/02	2120772	1	SEQP
MLL05900103200 31300	MW-11	MLL059004	W	CS	8260+OX	SW5035	12/13/02	12/26/02	12/27/02	2L27037	1	
MLL05900103200 31300	MW-11	MLL059004	W	CS	SW8020F	SW5030	12/13/02	12/27/02	12/27/02	2120771	1	SEQP
MLL05900103200 31300	MW-8	MLL059001	W	CS	8260+OX	SW5035	12/13/02	12/26/02	12/27/02	2L27037	1	
MLL05900103200 31300	MW-8	MLL059001	W	CS	SW8020F	SW5030	12/13/02	12/27/02	12/27/02	2120772	1	SEQP
MLL05900103200 31300	MW-9	MLL059002	W	CS	8260+OX	SW5035	12/13/02	12/26/02	12/27/02	2L27037	1	
MLL05900103200 31300	MW-9	MLL059002	W	CS	SW8020F	SW5030	12/13/02	12/27/02	12/27/02	2120772	1	SEQP
		P21248503	W	NC	SW8020F	SW5030	//	12/27/02	12/27/02	2120771	1	SEQP
		P21248508	W	NC	SW8020F	SW5030	//	12/27/02	12/27/02	2120772	1	SEQP
		2120771BS1	WQ	BS1	SW8020F	SW5030	//	12/27/02	12/27/02	2120771	1	SEQP
		2120771BLK1	WQ	LB1	SW8020F	SW5030	//	12/27/02	12/27/02	2120771	1	SEQP
		2120771MS1	W	MS1	SW8020F	SW5030	//	12/27/02	12/27/02	2120771	1	SEQP
		2120771MSD1	W	SD1	SW8020F	SW5030	//	12/27/02	12/27/02	2120771	1	SEQP
		2120772BS1	WQ	BS1	SW8020F	SW5030	//	12/27/02	12/27/02	2120772	1	SEQP
		2120772BLK1	WQ	LB1	SW8020F	SW5030	//	12/27/02	12/27/02	2120772	1	SEQP
		2120772MS1	W	MS1	SW8020F	SW5030	//	12/27/02	12/27/02	2120772	1	SEQP
		2120772MSD1	W	SD1	SW8020F	SW5030	//	12/27/02	12/27/02	2120772	1	SEQP
		2L27037BSD1	WQ	BD1	8260+OX	SW5035	//	12/26/02	12/27/02	2L27037	1	
		2L27037BSD2	WQ	BD2	8260+OX	SW5035	//	12/26/02	12/27/02	2L27037	1	
		2L27037BS1	WQ	BS1	8260+OX	SW5035	//	12/26/02	12/26/02	2L27037	1	
		2L27037BS2	WQ	BS2	8260+OX	SW5035	//	12/26/02	12/27/02	2L27037	1	
		2L27037BLK1	WQ	LB1	8260+OX	SW5035	//	12/26/02	12/26/02	2L27037	1	
		2L27037BLK2	WQ	LB2	8260+OX	SW5035	//	12/26/02	12/27/02	2L27037	1	

# EDFSAMP: Error Summary Log

01/30/03

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

---

## EDFTEST: Error Summary Log

01/30/03

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

# EDFRES: Error Summary Log

01/30/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2120771MS1	MS1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120771MS1	MS1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120771MS1	MS1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120771MSD1	SD1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120771MSD1	SD1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120771MSD1	SD1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772MS1	MS1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772MS1	MS1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772MS1	MS1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772MSD1	SD1	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772MSD1	SD1	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772MSD1	SD1	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	MLL059001	CS	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	MLL059001	CS	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	MLL059001	CS	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	MLL059002	CS	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	MLL059002	CS	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	MLL059002	CS	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	MLL059003	CS	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	MLL059003	CS	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	MLL059003	CS	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	MLL059004	CS	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	MLL059004	CS	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	MLL059004	CS	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	P21248503	NC	W	SW8020F	PR	12/27/02	1	AAATFBZME

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	P21248503	NC	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	P21248503	NC	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	P21248508	NC	W	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	P21248508	NC	W	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	P21248508	NC	W	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120771BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120771BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120771BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120771BS1	BS1	WQ	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120771BS1	BS1	WQ	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120771BS1	BS1	WQ	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772BLK1	LB1	WQ	SW8020F	PR	12/27/02	1	MTBE
Warning: extra parameter	2120772BS1	BS1	WQ	SW8020F	PR	12/27/02	1	AAATFBZME
Warning: extra parameter	2120772BS1	BS1	WQ	SW8020F	PR	12/27/02	1	BR4FBZ
Warning: extra parameter	2120772BS1	BS1	WQ	SW8020F	PR	12/27/02	1	MTBE

---

## EDFQC: Error Summary Log

01/30/03

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



---

## EDFCL: Error Summary Log

01/30/03

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

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**Facility Global ID:** T0600101432

**Facility Name:** BP

**Submittal Title:** Fourth Quarter 2002 Monitoring Report

**Submittal Type:** GW Monitoring Report

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**Submittal Date/Time: 1/30/2003 3:41:47 PM**

**Confirmation Number: 6913456559**

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**ATTACHMENT D**

**HISTORICAL GROUNDWATER ANALYTICAL DATA FOR FORMER  
WELLS ABANDONED IN 1999 (SOURCE ALISTO ENGINEERING)**

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1 (c)	10/27/92	328.96	8.19	320.77	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	04/09/93	328.96	4.79	324.17	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	08/25/93	328.96	6.85	322.11	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	11/22/93	328.96	7.38	321.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-1	03/07/94	328.96	5.89	323.07	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	4.3	PACE
MW-1	06/09/94	328.96	6.42	322.54	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	8.8	PACE
MW-1	09/12/94	328.96	7.33	321.63	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	7.8	PACE
MW-1	12/20/94	328.96	6.34	322.62	---	---	---	---	---	---	---	---	---
MW-1	03/16/95	328.96	4.37	324.59	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	5.6	ATI
MW-1	06/28/95	328.96	5.35	323.61	---	---	---	---	---	---	---	---	---
MW-1	09/06/95	328.96	6.44	322.52	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.4	ATI
MW-1	12/22/95	328.96	6.04	322.92	---	---	---	---	---	---	---	---	---
MW-1	08/20/96	328.96	5.65	323.31	---	---	---	---	---	---	---	---	---
MW-1	08/21/96	328.96	---	---	ND<50	160	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.8	SPL
MW-1	10/31/96	328.96	5.99	322.97	---	---	---	---	---	---	---	---	---
MW-1 (d)	12/02/96	328.96	---	---	---	---	---	---	---	---	---	---	---
MW-1 (d)	06/26/98	328.96	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/27/92	328.50	7.64	320.86	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	04/09/93	328.50	4.12	324.38	ND<50	80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	08/25/93	328.50	6.31	322.19	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	11/22/93	328.50	7.12	321.38	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-2	03/07/94	328.50	5.60	322.90	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	4.3	PACE
MW-2	06/09/94	328.50	5.91	322.59	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	8.2	PACE
MW-2	09/12/94	328.50	6.87	321.63	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	7.5	PACE
MW-2	12/20/94	328.50	5.86	322.64	---	---	---	---	---	---	---	---	---
MW-2	03/16/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	6.6	ATI
MW-2	03/16/95	328.50	3.77	324.73	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	6.6	ATI
MW-2	06/28/95	328.50	4.33	324.17	---	---	---	---	---	---	---	---	---
MW-2	09/06/95	328.50	5.85	322.65	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.0	ATI
MW-2	12/22/95	328.50	5.50	323.00	---	---	---	---	---	---	---	---	---
MW-2	08/20/96	328.50	5.07	323.43	---	---	---	---	---	---	---	---	---
MW-2	08/21/96	328.50	---	---	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.0	SPL
MW-2	10/31/96	328.50	5.44	323.06	---	---	---	---	---	---	---	---	---
MW-2	12/02/96	328.50	5.50	323.00	---	---	---	---	---	---	---	---	---
MW-2	03/27/97	328.50	4.61	323.89	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.8	SPL
MW-2	06/03/97	328.50	7.14	321.36	---	---	---	---	---	---	---	---	---
MW-2	09/16/97	328.50	6.10	322.40	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.2	SPL
MW-2	12/03/97	328.50	6.22	322.28	---	---	---	---	---	---	---	---	---
MW-2	06/26/98	328.50	4.86	323.64	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.6	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	10/27/92	329.36	8.43	320.93	210	ND<50	3	0.7	0.9	30	—	—	PACE
MW-3	04/09/93	329.36	4.90	324.46	400	260	6.1	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	08/25/93	329.36	7.13	322.23	2000	440	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3300	(e)	PACE
MW-3	11/22/93	329.36	7.60	321.76	1800	360	ND<2.5	ND<2.5	ND<2.5	ND<2.5	910	(e)	PACE
MW-3	03/07/94	329.36	6.08	323.28	1300	5000	22	4.0	2.2	3.8	7200	(e)	PACE
MW-3	06/09/94	329.36	6.51	322.85	8500	2600	25	8.3	0.5	15	13000	(e)	PACE
QC-1 (f)	06/09/94	—	—	—	8800	—	23	6.3	0.5	10	13000	(e)	PACE
MW-3	09/12/94	329.36	7.63	321.73	2100	3200	ND<5.0	ND<5.0	8.8	20	3800	(e)	PACE
QC-1 (f)	09/12/94	—	—	—	1800	—	ND<5.0	ND<5.0	8.0	10	3900	(e)	PACE
MW-3	12/20/94	329.36	6.41	322.95	18000	9600	79	28	89	9.3	—	—	PACE
QC-1 (f)	12/20/94	—	—	—	17000	—	79	33	80	ND<2.5	—	—	PACE
MW-3	03/16/95	329.36	4.39	324.97	6300	7000	470	ND<5.0	210	9.9	—	5.5	ATI
QC-1 (f)	03/16/95	—	—	—	6300	—	500	ND<5.0	230	13	—	—	ATI
MW-3	06/28/95	329.36	5.50	323.86	9000	3000	(g) ND<10	ND<10	ND<10	ND<20	—	7.4	ATI
QC-1 (f)	06/28/95	—	—	—	8800	—	(g) ND<10	ND<10	ND<10	ND<20	—	—	ATI
MW-3	09/06/95	329.36	6.66	322.70	10000	2800	ND<50	ND<50	ND<50	ND<100	37000	7.1	ATI
QC-1 (f)	09/06/95	—	—	—	9700	—	ND<50	ND<50	ND<50	ND<100	36000	—	ATI
MW-3	12/22/95	329.36	6.31	323.05	9200	2500	ND<50	ND<50	ND<50	ND<100	29000	6.7	ATI
MW-3	08/20/96	329.36	5.87	323.49	—	—	—	—	—	—	—	—	—
MW-3	08/21/96	329.36	—	—	3700	1900	ND<25	ND<50	ND<50	ND<50	4100	6.8	SPL
QC-1 (f)	08/21/96	—	—	—	3500	—	ND<25	ND<50	ND<50	ND<50	4000	—	SPL
MW-3	10/31/96	329.36	6.20	323.16	ND<250	ND<500	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.8	SPL
QC-1 (f)	10/31/96	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	12/02/96	329.36	6.27	323.09	ND<250	50	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	6.4	SPL
QC-1 (f)	12/02/96	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	—	—
MW-3	03/27/97	329.36	5.39	323.97	470	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	490	6.2	SPL
MW-3	06/03/97	329.36	7.92	321.44	ND<250	100	ND<2.5	ND<5.0	ND<5.0	ND<5.0	84	5.9	SPL
QC-1 (f)	06/03/97	—	—	—	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	74.0	—	—
MW-3	09/16/97	329.36	6.67	322.69	ND<50	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
MW-3	12/03/97	329.36	6.81	322.55	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
QC-1 (f)	12/03/97	—	—	—	ND<50	—	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	—	SPL
MW-3	06/26/98	329.36	5.08	324.28	ND<250	—	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-4	10/27/92	329.45	8.61	320.84	2300	190	23	54	50	320	--	--	PACE
MW-4	04/09/93	329.45	5.25	324.20	1600	500	78	3.5	68	1.0	--	--	PACE
MW-4	08/25/88	329.45	7.32	322.13	1800	380	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	PACE
QC-1 (f)	08/25/93	--	--	--	1600	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2100	(e)	PACE
MW-4	11/22/93	329.45	7.83	321.62	610	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
QC-1 (f)	11/22/93	--	--	--	1700	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	3500	(e)	PACE
MW-4	03/07/94	329.45	6.29	323.16	710	1400	0.5	0.8	ND<0.5	ND<0.5	5900	(e)	PACE
QC-1 (f)	03/07/94	--	--	--	1600	--	ND<0.5	ND<0.5	1.4	0.6	4200	(e)	PACE
MW-4	06/09/94	329.45	6.76	322.69	6400	1800	ND<10	ND<10	ND<10	ND<10	10000	(e)	PACE
MW-4	09/12/94	329.45	7.83	321.62	2000	2700	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4200	(e)	PACE
MW-4	12/20/94	329.45	6.68	322.77	9200	2400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	PACE
MW-4	03/16/95	329.45	4.66	324.79	1400	960	140	ND<2.5	58	14	--	--	ATI
MW-4	06/28/95	329.45	5.93	323.52	5000	5400	(g)	ND<5.0	220	ND<10	--	--	ATI
MW-4	09/06/95	329.45	6.83	322.62	4400	4500	ND<13	ND<13	ND<13	ND<25	12000	--	ATI
MW-4	12/22/95	329.45	6.42	323.03	3800	4700	15	ND<13	ND<13	ND<25	9200	--	ATI
QC-1 (f)	12/22/95	--	--	--	3900	--	16	ND<13	ND<13	ND<25	8600	--	ATI
MW-4	08/20/96	329.45	6.01	323.44	--	--	--	--	--	--	--	--	--
MW-4	08/21/96	329.45	--	--	ND<250	470	ND<12	ND<25	ND<25	ND<25	ND<250	--	SPL
MW-4	10/31/96	329.45	6.37	323.08	ND<250	1600	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	--	SPL
MW-4	12/02/96	329.45	6.71	322.74	ND<50	13000	ND<5	ND<10	ND<10	ND<10	2200	--	SPL
MW-4	03/27/97	329.45	5.70	323.75	8300	1500	44	ND<25	ND<25	ND<25	8000	--	SPL
QC-1 (f)	03/27/97	--	--	--	6900	--	51	ND<25	ND<25	ND<25	8500	--	SPL
MW-4	06/03/97	329.45	8.37	321.08	2800	270	62	ND<1.0	ND<1.0	ND<1.0	7000	--	SPL
MW-4	09/16/97	329.45	6.91	322.54	110	1800	0.80	ND<1.0	ND<1.0	ND<1.0	7700	--	SPL
QC-1 (f)	09/16/97	--	--	--	130	--	1.2	ND<1.0	ND<1.0	1.1	7100	--	SPL
MW-4	12/03/97	329.45	7.16	322.29	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	SPL
MW-4	06/26/98	329.45	5.15	324.30	520	--	0.52	ND<1.0	ND<1.0	ND<1.0	1100	--	SPL
MW-5	04/09/93	329.60	5.18	324.42	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-5	08/25/93	329.60	7.28	322.32	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-5	11/22/93	329.60	7.82	321.78	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-5	03/07/94	329.60	6.27	323.33	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-5	06/09/94	329.60	6.73	322.87	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-5	09/12/94	329.60	7.78	321.82	ND<50	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-5	12/20/94	329.60	6.63	322.97	--	--	--	--	--	--	--	--	--
MW-5	03/16/95	329.60	4.65	324.95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	ATI
MW-5	06/28/95	329.60	5.69	323.91	--	--	--	--	--	--	--	--	--
MW-5	09/06/95	329.60	6.82	322.78	ND<50	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	ATI
MW-5	12/22/95	329.60	6.40	323.20	--	--	--	--	--	--	--	--	--
MW-5	08/20/96	329.60	5.98	323.62	--	--	--	--	--	--	--	--	--
MW-5	08/21/96	329.60	--	--	ND<50	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10	--	SPL
MW-5	10/31/96	329.60	6.29	323.31	--	--	--	--	--	--	--	--	--
MW-5	12/02/96	329.60	6.37	323.23	--	--	--	--	--	--	--	--	--
MW-5	03/27/97	329.60	5.33	324.27	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	SPL
MW-5	06/03/97	329.60	8.00	321.60	--	--	--	--	--	--	--	--	--
MW-5	09/16/97	329.60	6.89	322.71	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	27	--	SPL
MW-5	12/03/97	329.60	6.99	322.61	--	--	--	--	--	--	--	--	--
MW-5	06/26/98	329.60	5.11	324.49	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	04/09/93	329.55	5.37	324.18	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-6	08/25/93	329.55	7.42	322.13	ND<50	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-6	11/22/93	329.55	7.93	321.62	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-6	03/07/94	329.55	6.25	323.30	ND<50	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	4.2	PACE
MW-6	06/09/94	329.55	6.85	322.70	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	7.0	PACE
MW-6	09/12/94	329.55	7.91	321.64	ND<50	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	6.7	PACE
MW-6	12/20/94	329.55	6.82	322.73	--	--	--	--	--	--	--	--	--
MW-6	03/16/95	329.55	4.78	324.77	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.1	ATI
MW-6	06/28/95	329.55	5.97	323.58	--	--	--	--	--	--	--	--	--
MW-6	09/06/95	329.55	6.94	322.61	ND<50	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.2	ATI
MW-6	12/22/95	329.55	6.53	323.02	--	--	--	--	--	--	--	--	--
MW-6	08/20/96	329.55	6.18	323.37	--	--	--	--	--	--	--	--	--
MW-6	08/21/96	329.55	--	--	ND<50	120	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	SPL
MW-6	10/31/96	329.55	6.52	323.03	--	--	--	--	--	--	--	--	--
MW-6	12/02/96	329.55	6.55	323.00	--	--	--	--	--	--	--	--	--
MW-6	03/27/97	329.55	5.50	324.05	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.3	SPL
MW-6	06/03/97	329.55	8.19	321.36	--	--	--	--	--	--	--	--	--
MW-6	09/16/97	329.55	6.95	322.60	ND<250	680	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	5.5	SPL
MW-6	12/03/97	329.55	7.22	322.33	--	--	--	--	--	--	--	--	--
MW-6	06/26/98	329.55	5.20	324.35	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.6	SPL
MW-7	04/09/93	329.49	5.36	324.13	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-7	08/25/93	329.49	7.44	322.05	ND<50	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-7	11/22/93	329.49	7.92	321.57	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	PACE
MW-7	03/07/94	329.49	6.20	323.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	3.7	PACE
MW-7	06/09/94	329.49	6.89	322.60	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	6.8	PACE
MW-7	09/12/94	329.49	7.87	321.62	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	6.8	PACE
MW-7	12/20/94	329.49	6.77	322.72	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	6.5	PACE
MW-7	03/16/95	329.49	4.77	324.72	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.9	ATI
MW-7	06/28/95	329.49	5.94	323.55	ND<50	320	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.8	ATI
MW-7	09/06/95	329.49	6.96	322.51	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	8.5	7.5	ATI
MW-7	12/22/95	329.49	6.65	322.84	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	7.2	6.9	ATI
MW-7	08/20/96	329.49	6.22	323.27	--	--	--	--	--	--	--	--	--
MW-7	08/21/96	329.49	--	--	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	SPL
MW-7	10/31/96	329.49	6.56	322.93	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	86	6.8	SPL
MW-7	12/02/96	329.49	6.13	323.36	ND<50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	59	7.3	SPL
MW-7	03/27/97	329.49	5.08	324.41	ND<50	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	6.6	SPL
MW-7	06/03/97	329.49	7.80	321.69	650	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	630	6.8	SPL
MW-7	09/16/97	329.49	6.50	322.99	120	ND<100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2200	6.0	SPL
MW-7	12/03/97	329.49	6.66	322.83	ND<50	ND<200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.0	SPL
MW-7 (h)	06/26/98	329.49	4.96	324.53	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.1	SPL



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2	(i)	08/25/93	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i)	11/22/93	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i)	03/07/94	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i)	06/09/94	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i)	09/12/94	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i)	12/20/94	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(i)	03/16/95	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2	(i)	06/28/95	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2	(i)	09/06/95	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
QC-2	(i)	12/22/95	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 TPH-D Total petroleum hydrocarbons as diesel  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 MTBE Methyl tert butyl ether  
 DO Dissolved oxygen  
 ug/l Micrograms per liter  
 ppm Parts per million  
 ND Not detected above reported detection limit  
 --- Not analyzed/applicable/measured  
 PACE Pace, Inc.  
 ATI Analytical Technologies, Inc.  
 SPL Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed to an arbitrary datum.
- (b) Groundwater elevations relative to an arbitrary datum.
- (c) Analysis did not detect total oil and grease and halogenated volatile organic compounds above reported detection limits.
- (d) Well inaccessible.
- (e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-170-05-001.
- (f) Blind duplicate.
- (g) MTBE peak. Refer to documentation for this data in Appendix C of Alisto report 10-170-05-001.
- (h) Analysis did not detect volatile organic compounds above reported detection limits.
- (i) Travel blank.

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TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING FOR EPA METHOD 8260 ANALYSIS  
 BP OIL COMPANY SERVICE STATION NO. 11120  
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

\*ALISTO PROJECT NO. 10-170

WELL ID	DATE OF SAMPLING/ MONITORING	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	TAME (ug/l)	LAB
MW-4	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL
MW-7	06/26/98	ND<5	ND<5	ND<5	ND<5	ND<10	ND<10	ND<10	ND<500	ND<10	SPL

ABBREVIATIONS:

B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 MTBE Methyl tert butyl ether  
 DIPE Di-isopropyl ether  
 ETBE Ethyl t-butyl ether  
 TBA t-butyl ether  
 TAME tert-amyl methyl ether  
 ug/l Micrograms per liter  
 ND Not detected above reported detection limit  
 SPL Southern Petroleum Laboratories

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