



SECOR  
INTERNATIONAL  
INCORPORATED

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RO 455

March 26, 2004

Alameda County

APR 01 2004

Environmental Health

Mr. Thomas Kosel  
ConocoPhillips  
76 Broadway  
Sacramento, CA 95818

RE: **Quarterly Remedial Performance Summary-Third and Fourth Quarter 2003**  
ConocoPhillips Station No. 1871  
96 MacArthur Boulevard  
Oakland, CA  
SECOR Project No.: 77CP.60004.01.1871

Dear Mr. Kosel:

This letter, prepared by SECOR International Incorporated (SECOR) on behalf of ConocoPhillips, presents a remedial action performance summary for the ozone injection system operating at the site referenced above. Attachment A presents the remedial performance summary for the third and fourth quarter 2003. Field Data Sheets are presented as Attachment B. Certified laboratory analytical reports and chain of custody documentation are presented as Attachment C. A brief site background and the status of recent remedial activities are presented below.

#### SITE BACKGROUND

The site is located on MacArthur Boulevard to the southeast of Oakland Avenue in Oakland, California. The site is currently an operating service station. In April 2002 an ozone injection system was installed at the site. SECOR took over operation of the remedial system in September 2003.

#### REMEDIAL PERFORMANCE EVALUATION

##### Ozone Injection Operation

The ozone injection system consists of a panel mounted KVA C-Sparge™ System that produces 4 grams per hour (0.009 pounds per hour) of ozone. The system injects to ten sparge wells: SP-A, SP-BS/BD, SP-C, SP-DS/DD, SP-E, SP-F, SP-G, and SP-H. During the third and fourth quarters of 2003 the system operated at 100% of the programmed runtime.

##### Ozone Injection Effectiveness

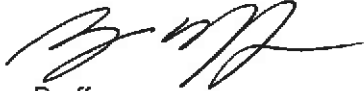
The effectiveness of the ozone injection system in causing breakdown of contaminants beneath the site is determined by groundwater sampling. Monthly groundwater samples were collected from monitoring wells MW-1 and MW-7 on August 29, November 17, and December 5, 2003 and from MW-1 and MW-6 on September 18 and October 16, 2003 and analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), and methyl tert-butyl ether (MtBE). Results of monthly groundwater sampling events are summarized in Table A-2. Since monthly remedial system performance sampling was initiated in February 2003, concentrations of dissolved TPHg, benzene, and MtBE have decreased in both MW-1 and MW-6. TPHg, benzene, and MtBE concentrations increased in MW-7 until June 2003 when they decreased slightly and have been fairly steady since. Initial increases in dissolved constituent concentrations are often caused by desorption of petroleum hydrocarbons from soil caused by the aggressive mechanical scrubbing of the ozone microbubbles. Concentration versus time graphs for dissolved TPHg, benzene, and MtBE in monitoring wells MW-1, MW-6, and MW-7 are provided in Figures A-1, A-2, and A-3. Field data sheets are provided in Attachment B. Certified laboratory

Quarterly Remedial Performance Summary  
March 26, 2004  
Page 2

analytical reports and chain-of-custody documentation for the groundwater monitoring events conducted during the third and fourth quarter of 2003 are provided in Attachment C.

If you have any questions, please contact us at (916) 861-0400.

Sincerely,  
SECOR International Incorporated

  
Amy Draffan  
Staff Engineer

  
Rusty E. Benkosky, P.E.  
Senior Engineer



Attachments: Figure 1 – Site Plan

Attachment A – Quarterly Remedial Performance Summary – Third and Fourth  
Quarter 2003

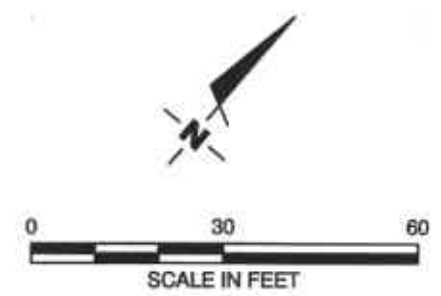
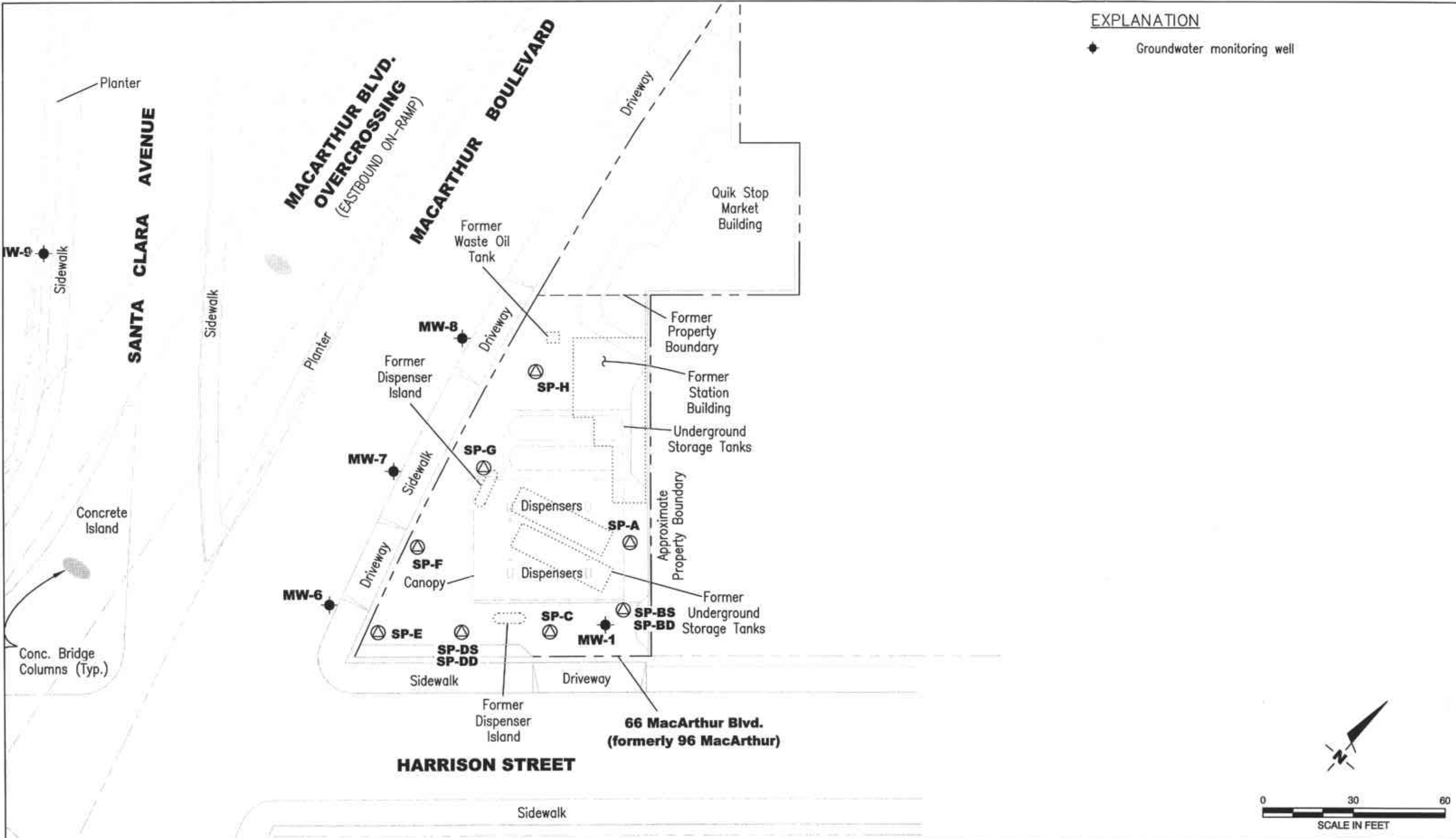
Attachment B – Field Data Sheets

Attachment C – Certified Analytical Reports and Chain of Custody Documentation

cc: Mr. Don Hwang, Alameda County Health Care Services Agency  
Ms. Barbara Moed, TRC  
Mr. Dan Truzzolino, ConocoPhillips

RB/ad

20040322.11030619 M:\CONOCOPHILLIPS\1871\CP 1871 SITEPLAN.dwg



Source: Caltrans As-Built Plans and Right of Way Maps confirmed by field observations

DRAWN BY: MD  
 CHECKED: AD  
 APPROVED: RB  
 DATE: 3/22/04 PR  
 JOB NO.: 77CP.60004.01  
 CAD FILE: SITEPLAN

PREPARED BY:  
  
**SECOR**  
 3017 KILGORE ROAD, SUITE 100  
 RANCHO CORDOVA, CA 95670

PREPARED FOR:  
**CONOCOPHILLIPS**  
 76 STATION #1871  
 96 MACARTHUR BOULEVARD  
 OAKLAND, CALIFORNIA

FIGURE 1

SITE PLAN

**ATTACHMENT A**  
**QUARTERLY REMEDIAL PERFORMANCE SUMMARY–**  
**THIRD AND FOURTH QUARTER 2003**

Quarterly Remedial Performance Summary  
ConocoPhillips Station No. 1871  
96 MacArthur Boulevard  
Oakland, CA

SECOR PROJECT NO.: 77CP.60004.01.1871

**ATTACHMENT A**  
**REMEDIAL ACTION PERFORMANCE SUMMARY: FOURTH QUARTER 2003**  
**Ozone Sparge System**

Site Name: ConocoPhillips Station # 1871  
 Site Address: 96 McArthur Blvd., Oakland  
 Abatement Equipment:  
 Start-Up Date:

Permitting Agency:  
 Permit Number:  
 Permit Expiration Date:  
 Estimated Shutdown Date: NA

**REMEDIAL OBJECTIVES**

**OPERATIONAL DATA (Fourth Quarter 2003)**

**Ozone Sparge Treatment System Data**

Operational Status

Mass Ozone Injected (lbs)

October	November	December	Cumulative
Operational	Operational	Operational	
-	-	0.98	88.00

**TPHg, Benzene and MtBE Summary**

MW1 Concentration TPHg (µg/L)  
 Concentration Benzene(µg/L)  
 Concentration MtBE (µg/L)  
 MW6 Concentration TPHg (µg/L)  
 Concentration Benzene(µg/L)  
 Concentration MtBE (µg/L)  
 MW7 Concentration TPHg (µg/L)  
 Concentration Benzene(µg/L)  
 Concentration MtBE (µg/L)

October	November	December
2,100	130	<50
6	<0.51	<0.5
110	43	36
<50	-	-
0.83	-	-
<0.5	-	-
-	16000	12000
-	<130	<100
-	17,000	19,000

**REMEDIAL ACTION PERFORMANCE EVALUATION**

**Regulatory Compliance**

**ACTIONS/RECOMMENDATIONS**

- o Continue operation of the ozone sparge system

**NOTES:**

ppmv = Parts per million by volume  
 cfm = Cubic feet per minute  
 lbs = Pounds  
 SVE = Soil Vapor extraction  
 ND = Not detected above the detection limit  
 TPHg = Total petroleum hydrocarbons as gasoline  
 MtBE = Methyl tert-butyl ether  
 - = Not available

Note: When appropriate, tabulated data is followed by graphical presentation.

**Table 1**  
**Ozone Injection - System Operation Data**

ConocoPhillips Service Station #1871  
95 MacArthur Blvd., Oakland, California

Date	OZONE SPARGE SYSTEM							OZ-1	OZ-2	OZ-3	OZ-4	OZ-5	OZ-6	OZ-7	OZ-8	OZ-9	OZ-10	Comments
	System Status on Arrival (On/Off)	System Status on Deprature (On/Off)	Hourometer Reading	Online Factor	Ozone Injected (lbs)	Pressure (psi)	Flow (scfm)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	
6/23/03	On	On	8807.26	0.83	--	--	--	20	18	19	20	21	23	20	26	14	26	a
7/16/03	Off	On	8850.46	0.79	0.39	--	--	27	18	31	40	28	29	31	36	24	25	a
8/30/03	On	On	9180.61	0.75	2.97	--	--	17	15	17	19	19	19	20	26	19	26	a
9/18/03	On	On	9327.43	0.74	1.32	--	--	13.5	14.7	17.0	16.3	16.0	19.7	16.8	19.8	15.7	20	a
10/16/03	On	On	--	--	--	--	--	27.0	19.5	40.8	39.0	40.8	38.5	34.2	46.4	24.2	39.8	a
11/17/03	On	On	9696.55	0.69	--	--	--	11.0	20.0	17.0	18.0	17.5	17.0	16.0	21.0	51.0	22.0	a
12/5/03	On	On	9804.98	0.67	0.98	--	--	33.0	21.0	44.0	40.0	43.0	39.0	33.5	44.0	26.0	33.0	a
<b>Reporting Period: Fourth Quarter 2003 (10/16/03 to 12/5/03)</b> <b>Total Hours Operational: 9,805</b> <b>Total Pounds Ozone Injected: 88</b> <b>Period Hours Operational: 478</b> <b>Period Percent Operational: 28%</b> <b>Period Pounds Ozone Injected: 4</b>																		
<b>Definitions:</b> psi Pounds per square inch scfm Standard cubic feet per minute -- Data not available NA Not applicable  <b>Notes:</b> a System cycles through points 1 through 7 for seven minutes per cycle, points 8 through 10 for ten minutes per cycle, 18 cycles per day, for 99% utilization																		

**Table 2**  
**Ozone Injection - Groundwater Monitoring Data**

ConocoPhillips Service Station #1871  
96 MacArthur Blvd., Oakland, California

Date	Monitoring Well: MW-1							Monitoring Well: MW-6							Monitoring Well: MW-7							
	ORP (mV)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	
1/31/2002	a	NM	42,000	5,800	--	--	26,000	NM	12,000	250	--	--	--	31,000	NM	25	0.25	--	--	--	--	9,900
4/11/2002	a	NM	58,000	2,900	--	--	19,000	NM	3,600	42	--	--	--	120,000	NM	--	--	--	--	--	--	--
7/11/2002	a	NM	5,900	330	--	--	3,400	NM	12,000	50	--	--	--	15,000	NM	--	--	--	--	--	--	--
10/15/2002	a	NM	470	16	--	--	390	NM	1,300	5.0	--	--	--	3,200	NM	2,500	25	--	--	--	--	12,000
1/14/2003	a	NM	25	0.25	--	--	49	NM	25	0.25	--	--	--	120	NM	12,500	125	--	--	--	--	33,000
2/12/2003	a	NM	120	4.9	--	--	180	NM	25	0.25	--	--	--	3.7	NM	12,500	125	--	--	--	--	37,000
4/16/2003	a	NM	510	57	0.62	29	61	160	NM	270	<0.50	<0.50	<0.50	1.3	15	NM	<25,000	<250	<250	<250	<500	37,000
6/23/2003	a	NM	75	<0.50	<0.50	<0.50	5.3	12	NM	--	--	--	--	--	NM	20,000	260	<0.50	<0.50	<1.0	20,000	
8/29/2003	a	NM	11,000	64	<10	330	1,400	440	NM	--	--	--	--	--	NM	<10,000	<100	<100	<100	<200	24,000	
9/18/2003		NM	390	2.3	<0.50	3.6	31	30	NM	<50	<0.50	<0.50	<1.0	1.8	NM	--	--	--	--	--	--	--
10/16/2003		NM	2100	6.0	<0.50	24.0	120	110	NM	<50	0.83	<0.50	<0.50	<1.0	<0.50	NM	--	--	--	--	--	--
11/17/2003		NM	130	0.51	<0.50	2.1	7.9	43	NM	--	--	--	--	--	NM	16,000	<130	<130	<130	<250	17,000	
12/5/2003		NM	<50	<0.50	<0.50	<1.0	36	NM	--	--	--	--	--	--	NM	12,000	<100	<100	<100	<200	19,000	

**Definitions:**

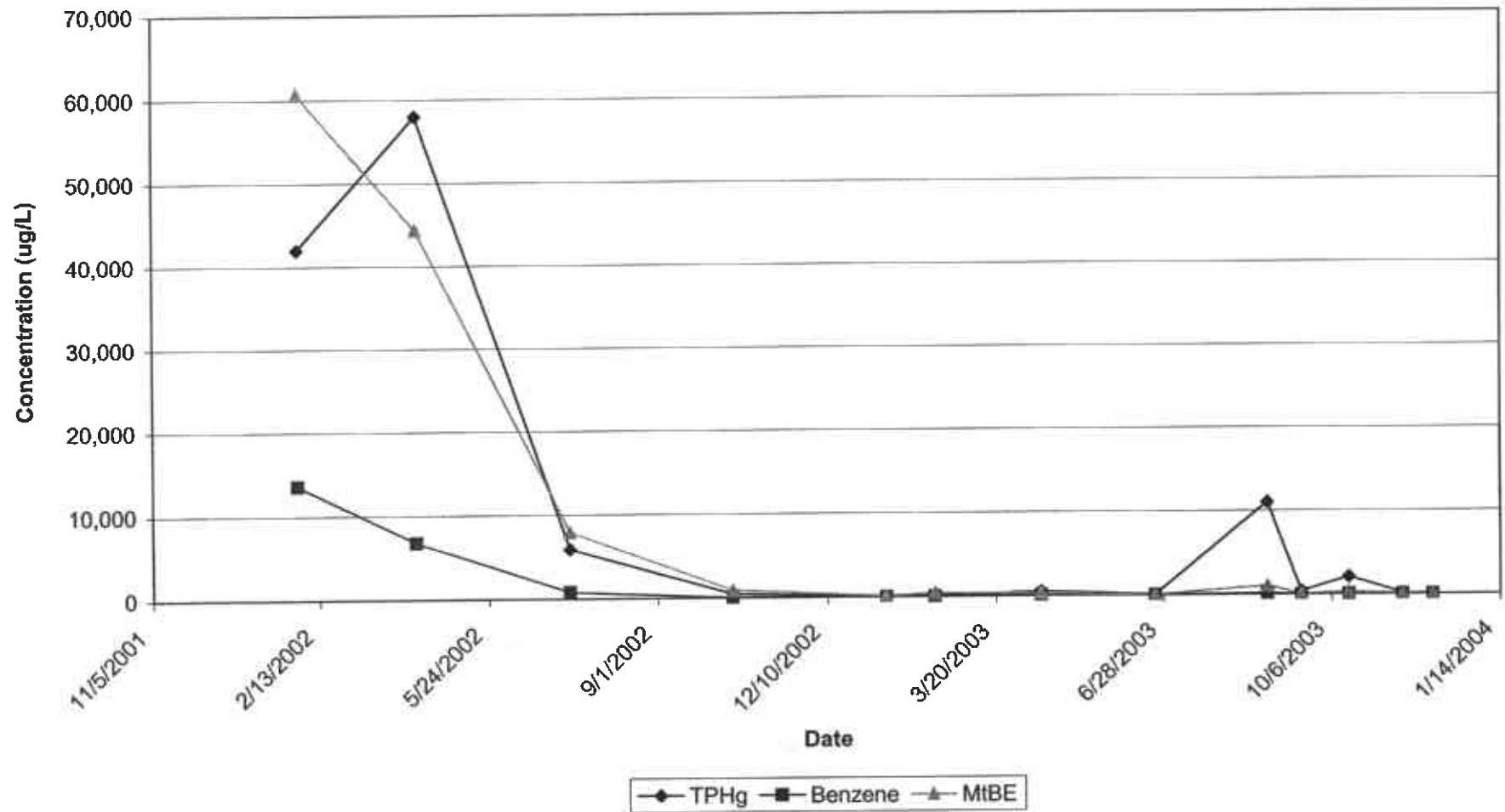
TPHg = Total petroleum hydrocarbons as gasoline  
 MtBE = Methyl tert-butyl ether  
 µg/L = Micrograms per liter  
 ORP = Oxidation Reduction Potential  
 NM = Not Measured

**Notes:**

- a Sampled by Gettier-Ryan, Inc.
- b Hydrocarbon in gasoline range does not match laboratory gasoline standard.
- Data not available

**Figure 1**  
**MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations**

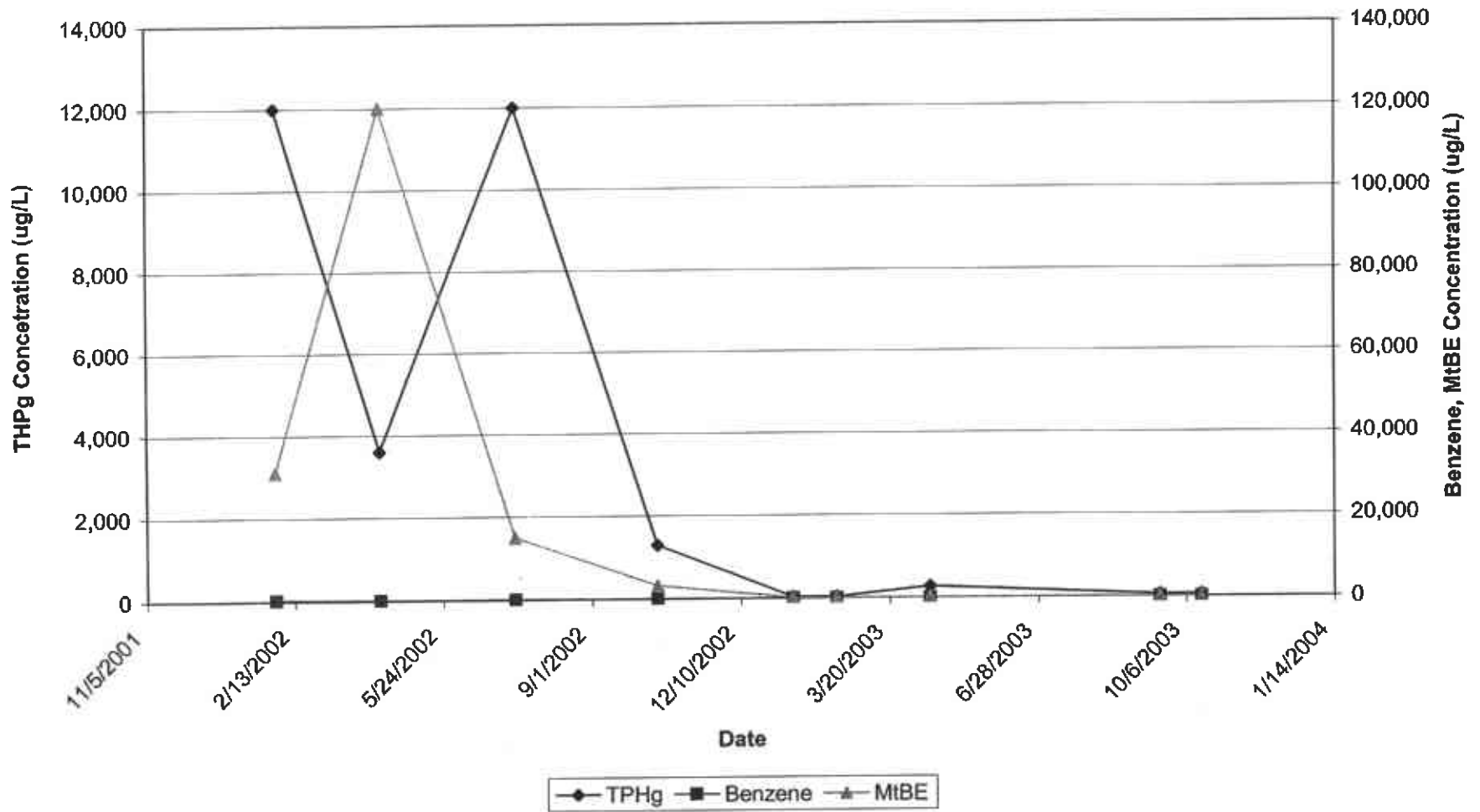
ConocoPhillips Service Station # 1871  
96 MacArthur Blvd., Oakland, California





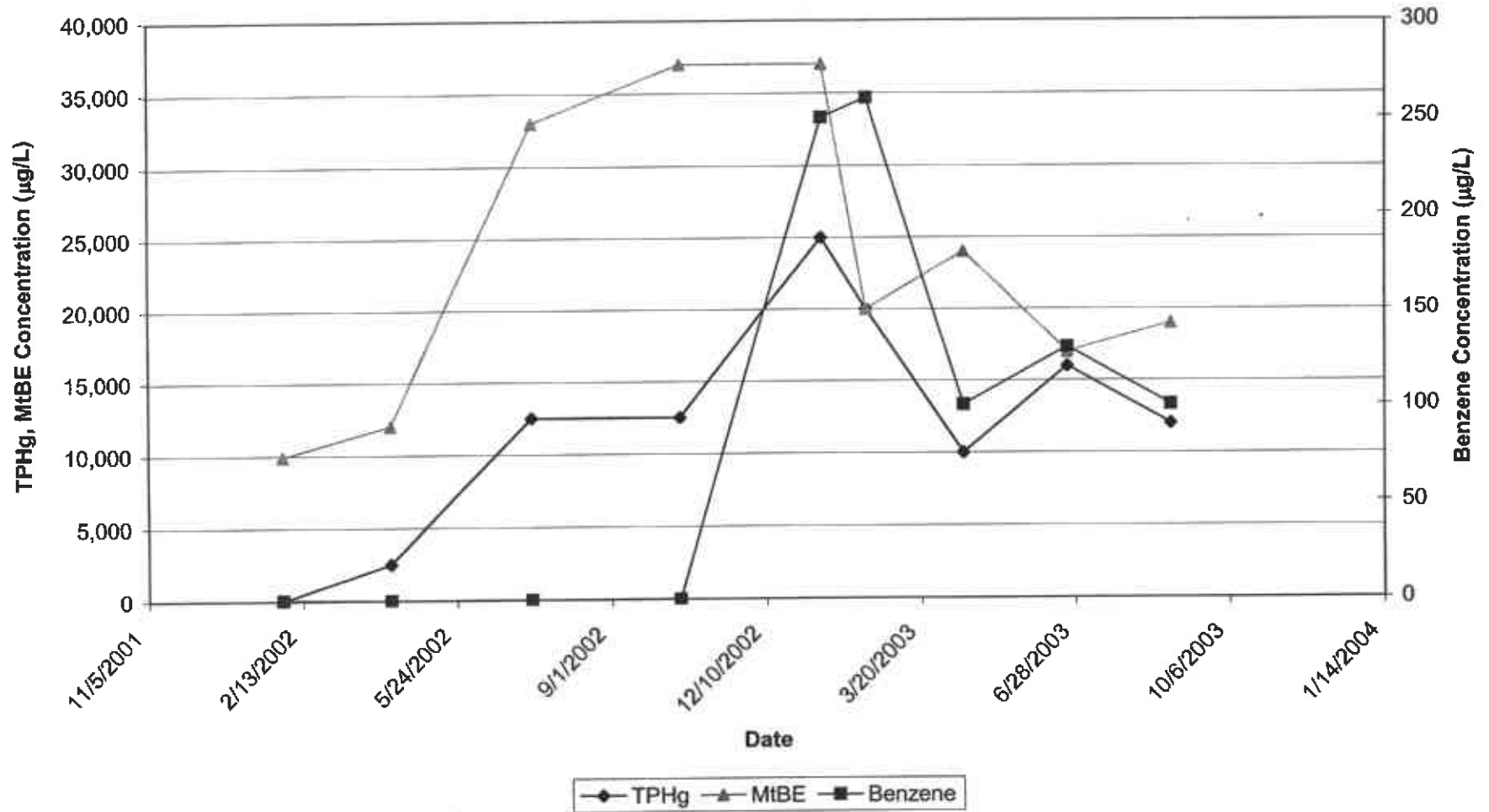
**Figure 2**  
**MW-6 TPHg, Benzene, and MtBE Groundwater Concentrations**

ConocoPhillips Service Station # 1871  
96 MacArthur Blvd., Oakland, California



**Figure 3**  
**MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations**

ConocoPhillips Service Station # 1871  
 96 MacArthur Blvd., Oakland, California



**ATTACHMENT B  
FIELD DATA SHEETS**

Quarterly Remedial Performance Summary  
ConocoPhillips Station No. 1871  
96 MacArthur Boulevard  
Oakland, CA  
SECOR Project No.: 77CP.60004.01.1871



# Gettler - Ryan, Inc.

6747 Sierra Ct., Sr51-7555  
Dublin, CA 94568

Client: ConocoPhillips

Site No: 1871

Address: 66 MacArthur Blvd.

City: Oakland CA

Job No.: 25-140156

Name: E. JAWZAK

Date: 29 Aug 03

Hour Meter  
91920.61

PG&E Meter  
NA

Point No.	Pressure (psig)	Panel Connection	Wellhead Connection
1	10	/	/
2	14	/	/
3	11	/	/
4	13	/	/
5	13	/	/
6	18	/	/
7	19	/	/
8	25	/	/
9	18	/	/
10	20	/	/

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

System Running on Arrival?

Tighten Electrical Connections?

System Running at Departure?

Observations and Comments:

Repaired Broken Dose handle

Discovered OHA and Sampled Site

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_

Work Conducted By: M. KEAN

DATE: 9-18-03

**SITE VISITATION REPORT**

Arrival Time: 1330

Departure Time: 1530

**WASTE AND DRUM INVENTORY**

<input checked="" type="checkbox"/> SOIL	<input checked="" type="checkbox"/> CARBON	<input checked="" type="checkbox"/> TOTAL OPEN TOP
<input checked="" type="checkbox"/> WATER	<input checked="" type="checkbox"/> EMPTY	<input checked="" type="checkbox"/> TOTAL BUNG TOP
Estimated Water Volume _____	Other Waste: <u>N/A</u>	

**HEALTH AND SAFETY ASSESSMENT**

**OZONE MONITORING NOTES:**

Hour Meter: 9327.43

System Pressure: \_\_\_\_\_

Wind Direction: NW

System Flow Rate: \_\_\_\_\_

Estimated Wind Speed: 3-5 mph

Estimated Air Temp: 83F

Ozone meter Brand: ECO

Ozone meter sensitivity range: 0.00 → 10.0

Ozone Badge on: Yes  No \_\_\_\_\_

Time Badge Put on: 1330

Time Badge Take Off: 1530

Circle Badge Color: White  Tan  Brown

Estimate Temp within Ozone Panel or containment shed: 72°F

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_ 0.00

SITE ADDRESS: 96 McArthur Blvd, Oakland, CA

DATE: 9-18-03

MONITORED BY: M. Keah

WELL I.D.	Vapor Readings			Field Notes or Comments
	Ozone (ppm)	Odors	Pressure	
<b>Compound and System Readings</b>				
Outside Compound	0.02	NONE		C-Sparge hrs - 09327.43
Inside Compound	0.03	NONE		
Inside Shed or Panel	0.03	NONE		
<b>Secondary Containment</b>				
<b>Well Box Ozone Readings</b>				
OZ-1	0.04	NONE ↓	13.5	
OZ-2	0.04		14.7	
OZ-3	0.05		17.0	
OZ-4	0.05		16.3	
OZ-5	0.06		16.0	
OZ-6	0.05		19.7	
OZ-7	0.05		16.8	
OZ-8	0.04		19.8	
OZ-9	0.04		15.7	
OZ-10	0.05		20.2	

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_

Work Conducted By: M. KEANDATE: 9-18-03

## DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

This was my initial site visit.

UPON ARRIVAL - ALL LOCK properly in place  
Vegetation GROWING AROUND C-SPARGE  
CONTAINMENT BOX

INSIDE THE C-SPARGE PANEL WAS  
MUCH DUST, DIRT AND BUGS.

There wasn't any filter in  
place for the intake fan. The fan  
was drawing in all the foreign  
matter around the Containment  
Box.

I used compressed GAS (air) to  
clean out the inside of the  
C-SPARGE PANEL. I then  
installed a new filter for the  
air intake fan.

I took water samples from  
Monitoring Wells #'s 2 & 6 AND  
brought them to the STL LABORATORY  
FOR ANALYSIS.

System RUNNING upon  
departure

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_

Work Conducted By: M. Kean

DATE: 10-16-03

### SITE VISITATION REPORT

Arrival Time: 10:20

Departure Time: \_\_\_\_\_

#### WASTE AND DRUM INVENTORY

_____ SOIL	_____ CARBON	_____ TOTAL OPEN TOP
_____ WATER	_____ EMPTY	_____ TOTAL BUNG TOP
_____ Estimated Water Volume	Other Waste: <u>0 Present</u>	

#### HEALTH AND SAFETY ASSESSMENT

#### OZONE MONITORING NOTES

Hour Meter: \_\_\_\_\_

System Pressure: \_\_\_\_\_

Wind Direction: 0

System Flow Rate: \_\_\_\_\_

Estimated Wind Speed: CALM

Estimated Air Temp: 60°F

Ozone meter Brand: ECO

Ozone meter sensitivity range: 0-10.0

Ozone Badge on: Yes No

Time Badge Put on: \_\_\_\_\_

Time Badge Take Off: \_\_\_\_\_

Circle Badge Color: White Tan Brown

Estimate Temp within Ozone Panel or containment shed: 62°F



JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_ 0.00

SITE ADDRESS: 96 McArthur Blvd, Oakland, CA

DATE: 10-16-03

MONITORED BY: M Kean

WELL I.D.	Vapor Readings			Field Notes or Comments
	Ozone (ppm)	Odors	Pressure	
<b>Compound and System Readings</b>				
Outside Compound	0.02	NONE		
Inside Compound	0.02	↓		
Inside Shed or Panel	0.03			
Secondary Containment	0.03			
<b>Well Box Ozone Readings</b>				
				PRESSURES
OZ-1	0.02			27.0
OZ-2	0.03			19.5
OZ-3	0.03			40.8
OZ-4	0.03			39.0
OZ-5	0.03			40.8
OZ-6	0.03			38.5
OZ-7	0.03			34.2
OZ-8	0.02			46.4
OZ-9	0.03			24.2
OZ-10	0.02			39.8

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_

Work Conducted By: M. Kean

DATE: 10-16-03

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Tubing was disconnected from  
valve under the ozone panel -  
Reconnected it after repairing the  
bushing. Cylanoide #7

Cut back Bush that had  
grown over and in front of  
C-sparge panel

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: 776P.60004.00-1871

Work Conducted By: M. KEAN

DATE: 11-17-03

### SITE VISITATION REPORT

Arrival Time: 1110

Departure Time: \_\_\_\_\_

#### WASTE AND DRUM INVENTORY

_____ SOIL	_____ CARBON	_____ TOTAL OPEN TOP
_____ WATER	_____ EMPTY	_____ TOTAL BUNG TOP
_____ Estimated Water Volume	Other Waste: <u>NONE AT THIS SITE!</u>	

#### HEALTH AND SAFETY ASSESSMENT

#### OZONE MONITORING NOTES

Hour Meter: 9696.55 System Pressure: \_\_\_\_\_

Wind Direction: NE System Flow Rate: \_\_\_\_\_

Estimated Wind Speed: 3-5 mph

Estimated Air Temp: 65°

Ozone meter Brand: ECO Ozone meter sensitivity range: 0-10

Ozone Badge on: Yes  No

Time Badge Put on: 1110

Time Badge Take Off: \_\_\_\_\_ Circle Badge Color: White  Tan  Brown

Estimate Temp within Ozone Panel or containment shed: \_\_\_\_\_

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_ 0.00

SITE ADDRESS: 96 McArthur Blvd, Oakland, CA

DATE: 11-17-03

MONITORED BY: M. Kean

WELL I.D.	Vapor Readings			Field Notes or Comments
	Ozone (ppm)	Odors	Pressure	
<b>Compound and System Readings</b>				
Outside Compound	0.03	NONE	---	
Inside Compound	0.03	↓	---	
Inside Shed or Panel			---	
Secondary Containment	N/A		↓	
<b>Well Box Ozone Readings</b>				
OZ-1	0.03		11.0	
OZ-2	0.04		20.0	
OZ-3	0.05		17.0	
OZ-4	0.05		18.0	
OZ-5	0.05		17.5	
OZ-6	0.05		17.0	
OZ-7	0.06		16.0	
OZ-8	0.07		21.0	
OZ-9	0.05		15.0	
OZ-10	0.05		22.0	

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: 77C.P.60004.DD.1871

Work Conducted By: M. KEAN

DATE: 11-17-03

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Cut back vegetation in order to open  
C-sparge panel. Check all valves and hoses.  
Tight and intact.

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_ 0.00

SITE ADDRESS: 96 McArthur Blvd, Oakland, CA

DATE: 12-5-03

MONITORED BY: M. Keen

WELL I.D.	Vapor Readings			Field Notes or Comments
	Ozone (ppm)	Odors	Pressure	
<b>Compound and System Readings</b>				
Outside Compound	0.03		Ambient	↓
Inside Compound	0.03			
Inside Shed or Panel	0.03			
Secondary Containment	0.03			
<b>Well Box Ozone Readings</b>				
OZ-1	0.03		33.0	
OZ-2	0.03		21.0	
OZ-3	0.03		44.0	
OZ-4	0.03		40.0	
OZ-5	0.03		43.0	
OZ-6	0.03		39.0	
OZ-7	0.03		33.5	
OZ-8	0.03		44.0	
OZ-9	0.03		26.0	
OZ-10	0.03		33.0	

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_

Work Conducted By: \_\_\_\_\_

DATE: 12-5-03

### SITE VISITATION REPORT

Arrival Time: 1030

Departure Time: 1145

#### WASTE AND DRUM INVENTORY

_____ SOIL	_____ CARBON	_____ TOTAL OPEN TOP
_____ WATER	_____ EMPTY	_____ TOTAL BUNG TOP
_____ Estimated Water Volume	Other Waste: _____	

#### HEALTH AND SAFETY ASSESSMENT

#### OZONE MONITORING NOTES

Hour Meter: 9804.98

System Pressure: \_\_\_\_\_

Wind Direction: NW

System Flow Rate: \_\_\_\_\_

Estimated Wind Speed: 3 mph

Estimated Air Temp: 55°

Ozone meter Brand: ECO

Ozone meter sensitivity range: 0-10

Ozone Badge on:  Yes  No

Time Badge Put on: 1040

Time Badge Take Off: 1130

Circle Badge Color: White  Tan  Brown

Estimate Temp within Ozone Panel or containment shed: \_\_\_\_\_

JOB NAME: ConocoPhillips Station 1871

JOB NUMBER: \_\_\_\_\_

Work Conducted By: M Kean

DATE: 12-5-03

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

I installed the fuse from the rainbird to the controls.

The rainbird has a lot of play in the switch. I'm not sure it's working properly. I also noticed, while checking the pressures, bubbles coming from the area where the ozone hose goes into the solenoid manifold.

I would like to get Bill McCaulough to come check this system out.



**ATTACHMENT C**  
**CERTIFIED LABORATORY ANALYTICAL REPORTS AND**  
**CHAIN-OF-CUSTODY DOCUMENTATION**

Quarterly Remedial Performance Summary  
ConocoPhillips Station No. 1871  
96 MacArthur Boulevard  
Oakland, CA

SECOR Project No.: 77CP.60004.01.1871

**Gettler Ryan**

September 15, 2003

6747 Sierra Court Suite J  
Dublin, CA 94568

Attn.: Eric Janzen  
Project: Conoco #1871  
Site: 66 MacArthur Blvd.

Dear Mr. Janzen:

Attached is our report for your samples received on 08/29/2003 15:25  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
10/13/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [tgranicher@stl-inc.com](mailto:tgranicher@stl-inc.com)

Sincerely,



Tod Granicher  
Project Manager

**Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Eric Janzen

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7555 Fax: (925) 551-7888

Project: Conoco #1871

Received: 08/29/2003 15:25

Site: 66 MacArthur Blvd.

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW1 1871	08/29/2003 14:15	Water	1
MW7 1871	08/29/2003 14:20	Water	2

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

09/10/2003 16:42



**Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Eric Janzen

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7555 Fax: (925) 551-7888

Project: Conoco #1871

Received: 08/29/2003 15:25

Site: 66 MacArthur Blvd.

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW7 1871 Lab ID: 2003-09-0006 - 2  
Sampled: 08/29/2003 14:20 Extracted: 9/9/2003 22:41  
Matrix: Water QC Batch#: 2003/09/09-02.64  
Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	09/09/2003 22:41	
Methyl tert-butyl ether (MTBE)	24000	100	ug/L	200.00	09/09/2003 22:41	
Benzene	ND	100	ug/L	200.00	09/09/2003 22:41	
Toluene	ND	100	ug/L	200.00	09/09/2003 22:41	
Ethylbenzene	ND	100	ug/L	200.00	09/09/2003 22:41	
Total xylenes	ND	200	ug/L	200.00	09/09/2003 22:41	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	111.9	76-114	%	200.00	09/09/2003 22:41	
Toluene-d8	100.6	88-110	%	200.00	09/09/2003 22:41	

**Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Eric Janzen

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7555 Fax: (925) 551-7888

Project: Conoco #1871

Received: 08/29/2003 15:25

Site: 66 MacArthur Blvd.

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2003/09/09-02.64-014

Water

Test(s): 8260B

QC Batch # 2003/09/09-02.64

Date Extracted: 09/09/2003 21:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/09/2003 21:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/09/2003 21:14	
Benzene	ND	0.5	ug/L	09/09/2003 21:14	
Toluene	ND	0.5	ug/L	09/09/2003 21:14	
Ethylbenzene	ND	0.5	ug/L	09/09/2003 21:14	
Total xylenes	ND	1.0	ug/L	09/09/2003 21:14	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	87.3	76-114	%	09/09/2003 21:14	
Toluene-d8	98.0	88-110	%	09/09/2003 21:14	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

09/10/2003 16:42

**Fuel Oxygenates by 8260B**

Gettler Ryan  
Attn.: Eric Janzen

6747 Sierra Court Suite J  
Dublin, CA 94568  
Phone: (925) 551-7555 Fax: (925) 551-7888  
Project: Conoco #1871

Received: 08/29/2003 15:25  
Site: 66 MacArthur Blvd.

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/09/09-02.64**

LCS: 2003/09/09-02.64-030

Extracted: 09/09/2003

Analyzed: 09/09/2003 20:30

LCSD: 2003/09/09-02.64-052

Extracted: 09/09/2003

Analyzed: 09/09/2003 20:52

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.8	18.8	25.0	83.2	75.2	10.1	65-165	20		
Benzene	20.3	20.0	25.0	81.2	80.0	1.5	69-129	20		
Toluene	21.4	21.4	25.0	85.6	85.6	0.0	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	472	443	500	94.4	88.6		76-114			
Toluene-d8	510	494	500	102.0	98.8		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

09/10/2003 16:42

**Fuel Oxygenates by 8260B**

Gettler Ryan

Attn.: Eric Janzen

6747 Sierra Court Suite J

Dublin, CA 94568

Phone: (925) 551-7555 Fax: (925) 551-7888

Project: Conoco #1871

Received: 08/29/2003 15:25

Site: 66 MacArthur Blvd.

---

**Legend and Notes**

---

**Analysis Flag**

0

Reporting limits were raised due to high level of analyte present in the sample.



Report To					Analysis Request														
Attn: <u>ERIC JAWZEN @ GENE.COM</u>					<input checked="" type="checkbox"/> TPH EPA 8010B <input checked="" type="checkbox"/> Gas W/ BTEX <input type="checkbox"/> Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8001 <input type="checkbox"/> 8060B TCEP/ EPA 8010B <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other Fuel Tests EPA 8090E <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Fm Condensate <input type="checkbox"/> DCA <input type="checkbox"/> EDG <input type="checkbox"/> Ethanol Purgeable Halocarbons (HVOCs) EPA 8021 Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 824 Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 825 Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8001 <input type="checkbox"/> 808 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 808 PMAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 CMM7 Metals (EPA 8007/107471) Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other WET (STL) TSSP Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O) Spec Cond. <input type="checkbox"/> Alkalinity TSS Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>														
Company: <u>GENE RYAN</u>																			
Address: <u>6747 BUREAU CT SUITE 1</u>																			
Phone: <u>925 277 2555</u> Email:																			
Bill To:		Sampled By:																	
<u>CONCORD PHILIPS</u>		<u>ERIC JAWZEN</u>																	
Attn: <u>Dave DeLuca</u>		Phone:																	
Sample ID	Q3/c	Time	Mat	Pres															
1X	err																		
<u>MW1 1871</u>	<u>29 AUG 15 54W</u>	<u>H19</u>	<u>X</u>																
<u>MW7 1871</u>	<u>29 AUG 14 20E</u>	<u>M1</u>	<u>X</u>																

Project Info.						Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: <u>100 MACADAMUE BLVD</u>						# of Containers: <u>6</u>		Signature: <u>[Signature]</u> Time: <u>1525</u>		Signature: _____ Time: _____		Signature: _____ Time: _____	
Project#: <u>1871</u>						Head Space: <u>NONE</u>		Printed Name: <u>ERIC JAWZEN</u> Date: <u>29 AUG 03</u>		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____	
PO#: <u>1</u>						Temp: <u>6.0°C</u>		Company: <u>Gene Ryan</u>		Company: _____		Company: _____	
Credit Card#:						Conforms to record:							
T	A	T	5	72h	48h	24h	Other:	1) Received by:		2) Received by:		3) Received by:	
							<u>10</u>	Signature: _____ Time: _____		Signature: _____ Time: _____		Signature: <u>[Signature]</u> Time: _____	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF								Printed Name: _____ Date: _____		Printed Name: _____ Date: _____		Printed Name: <u>D. Harrington</u> Date: <u>8/29/03</u>	
Special Instructions / Comments:								Company: _____		Company: _____		Company: <u>STL-SF</u>	

## SECOR-Sacramento

November 03, 2003

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670

Attn.: Amy Draffan  
Project: Conoco Phillips 1871  
Site: 96 Mac Arthur Blvd. Oakland

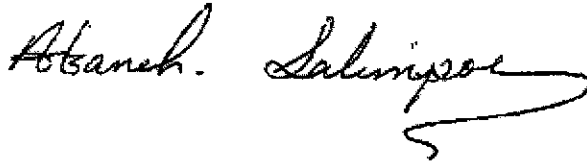
Attached is our report for your samples received on 10/16/2003 14:50  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
11/30/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips 1871

Received: 10/16/2003 14:50

Site: 96 Mac Arthur Blvd. Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-6	10/16/2003 11:15	Water	1
MW-1	10/16/2003 11:25	Water	2



## Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
 Rancho Cordova, CA 95670  
 Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips 1871

Received: 10/16/2003 14:50

Site: 96 Mac Arthur Blvd. Oakland

Prep(s): 5030B Test(s): 8260FAB  
 Sample ID: MW-1 Lab ID: 2003-10-0641 - 2  
 Sampled: 10/16/2003 11:25 Extracted: 10/27/2003 15:24  
 Matrix: Water QC Batch#: 2003/10/27-1A.68

Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2100	100	ug/L	2.00	10/27/2003 15:24	
Benzene	6.0	1.0	ug/L	2.00	10/27/2003 15:24	
Toluene	ND	1.0	ug/L	2.00	10/27/2003 15:24	
Ethylbenzene	24	1.0	ug/L	2.00	10/27/2003 15:24	
Total xylenes	120	2.0	ug/L	2.00	10/27/2003 15:24	
Methyl tert-butyl ether (MTBE)	110	1.0	ug/L	2.00	10/27/2003 15:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.5	76-114	%	2.00	10/27/2003 15:24	
Toluene-d8	101.2	88-110	%	2.00	10/27/2003 15:24	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

10/29/2003 13:39

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips 1871

Received: 10/16/2003 14:50

Site: 96 Mac Arthur Blvd. Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/27-1A.68

MB: 2003/10/27-1A.68-005

Date Extracted: 10/27/2003 10:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/27/2003 10:05	
Benzene	ND	0.5	ug/L	10/27/2003 10:05	
Toluene	ND	0.5	ug/L	10/27/2003 10:05	
Ethylbenzene	ND	0.5	ug/L	10/27/2003 10:05	
Total xylenes	ND	1.0	ug/L	10/27/2003 10:05	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/27/2003 10:05	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.4	76-114	%	10/27/2003 10:05	
Toluene-d8	103.8	88-110	%	10/27/2003 10:05	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips 1871

Received: 10/16/2003 14:50

Site: 96 Mac Arthur Blvd. Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/10/27-1A.68

LCS 2003/10/27-1A.68-022

Extracted: 10/27/2003

Analyzed: 10/27/2003 09:22

LCSD 2003/10/27-1A.68-043

Extracted: 10/27/2003

Analyzed: 10/27/2003 09:43

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.6	20.5	25	82.4	82.0	0.5	69-129	20		
Toluene	22.5	22.3	25	90.0	89.2	0.9	70-130	20		
Methyl teri-butyl ether (MTBE)	19.0	18.1	25	76.0	72.4	4.9	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	483	467	500	96.6	93.4		76-114			
Toluene-d8	508	508	500	101.6	101.6		88-110			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips 1871

Received: 10/16/2003 14:50

Site: 96 Mac Arthur Blvd. Oakland

---

Legend and Notes

---

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.



# 2003-10-0641

78534  
CHAIN OF CUSTODY RECORD

STL Laboratory  
1220 Quarry Lane, Pleasanton, CA 94556

Company Contact(s) for Invoice:

DATE: 10-16-03

PAGE: 01 of 01

CONSULTANT: **SECOR International**  
ADDRESS: **3017 Kilgore Road**  
CITY: **Rancho Cordova, CA 95670**  
TEL: **916-861-0400** FAX: **916-861-0430** E-MAIL:

SITE ADDRESS: **96 MacArthur Blvd. Oakland #1871**  
PROJECT CONTACT: **Amy Draffan**  
CONSULTANT PROJECT NO.:  
SAMPLER(S) SIGNATURE: *Maurice A. Kean*

TURNAROUND TIME (BUSINESS DAYS)  
 10 DAYS  5 DAYS  72 HR  48 HR  24 HR  <24 HR

LA-RWQCB REPORT FORMAT LIST AGENCY:

MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT (C) **3.0**  
**Dan Truzzolino**  
**Conoco - Phillips**

REQUESTED ANALYSIS

TPH - Gasoline (8015m)	TPH - Diesel (8015m)	BTEX / MTBE (8021B)	TPH/BTEX / MTBE + <del>...</del> (8260B)	VOCs Full List + <del>...</del> (8260B)	MTBE Confirmation, See Note	Ethanol, Methanol (8018B)	Metals (Specify)	TRPH (418.1)	Methane (RSK-175)	Ferrous Iron #2	Sulfate, Nitrate (300.0)	Vapor VOCs BTEX / MTBE (10-15)	Vapor VOCs Full List (10-15)	Vapor TPH (ASTM 3418m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B- )	Other:	Field PID Reading or Laboratory Notes
			<input checked="" type="checkbox"/>															
			<input checked="" type="checkbox"/>															

Field Sample Identification	SAMPLING		MAT-RIX	NO. OF CONT.
	DATE	TIME		
MW-6	10-16-03	1115	W	3
MW-1	10-16-03	1125	W	3

Relinquished by: (Signature) *Maurice A. Kean*  
Relinquished by: (Signature)  
Relinquished by: (Signature)

Received by: (Signature) *SECOR International / STE-SF*  
Received by: (Signature)  
Received by: (Signature)

Date: 10-16-03 Time: 1450  
Date: Time:  
Date: Time:

## SECOR-Sacramento

December 02, 2003

3017 Kilgore Road, Suite 100

Rancho Cordova, CA 95670

Attn.: Amy Draffan

Project: 1871

Site: 96 MacArthur Blvd. Oakland

Attached is our report for your samples received on 11/17/2003 13:50

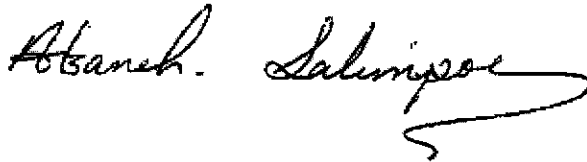
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/01/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 1871

Received: 11/17/2003 13:50

Site: 96 MacArthur Blvd. Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/17/2003 11:50	Water	1
MW-7	11/17/2003 12:00	Water	2

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 1871

Received: 11/17/2003 13:50

Site: 96 MacArthur Blvd. Oakland

Prep(s): 5030B Test(s): 8260B  
 Sample ID: MW-1 Lab ID: 2003-11-0617 - 1  
 Sampled: 11/17/2003 11:50 Extracted: 11/25/2003 20:39  
 Matrix: Water QC Batch#: 2003/11/25-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	130	50	ug/L	1.00	11/25/2003 20:39	
Benzene	0.51	0.50	ug/L	1.00	11/25/2003 20:39	
Toluene	ND	0.50	ug/L	1.00	11/25/2003 20:39	
Ethylbenzene	2.1	0.50	ug/L	1.00	11/25/2003 20:39	
Total xylenes	7.9	1.0	ug/L	1.00	11/25/2003 20:39	
Methyl tert-butyl ether (MTBE)	43	0.50	ug/L	1.00	11/25/2003 20:39	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	90.1	76	%	1.00	11/25/2003 20:39	
Toluene-d8	93.8	88	%	1.00	11/25/2003 20:39	

## Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 1871

Received: 11/17/2003 13:50

Site: 96 MacArthur Blvd. Oakland

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW-7 Lab ID: 2003-11-0617 - 2  
Sampled: 11/17/2003 12:00 Extracted: 11/25/2003 21:02  
Matrix: Water QC Batch#: 2003/11/25-2A.65  
Analysis Flag: 0 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	16000	13000	ug/L	250.00	11/25/2003 21:02	g
Benzene	ND	130	ug/L	250.00	11/25/2003 21:02	
Toluene	ND	130	ug/L	250.00	11/25/2003 21:02	
Ethylbenzene	ND	130	ug/L	250.00	11/25/2003 21:02	
Total xylenes	ND	250	ug/L	250.00	11/25/2003 21:02	
Methyl tert-butyl ether (MTBE)	17000	130	ug/L	250.00	11/25/2003 21:02	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.4	76	%	250.00	11/25/2003 21:02	
Toluene-d8	91.0	88	%	250.00	11/25/2003 21:02	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 1871

Received: 11/17/2003 13:50

Site: 96 MacArthur Blvd. Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/11/25-2A.65-018

Water

Test(s): 8260B

QC Batch # 2003/11/25-2A.65

Date Extracted: 11/25/2003 19:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/25/2003 19:18	
Gasoline	ND	50	ug/L	11/25/2003 19:18	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	11/25/2003 19:18	
Benzene	ND	0.5	ug/L	11/25/2003 19:18	
Toluene	ND	0.5	ug/L	11/25/2003 19:18	
Ethylbenzene	ND	0.5	ug/L	11/25/2003 19:18	
Total xylenes	ND	1.0	ug/L	11/25/2003 19:18	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	86.4	76-114	%	11/25/2003 19:18	
Toluene-d8	93.2	88-110	%	11/25/2003 19:18	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 1871

Received: 11/17/2003 13:50

Site: 96 MacArthur Blvd. Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/11/25-2A.65

LCS 2003/11/25-2A.65-057

Extracted: 11/25/2003

Analyzed: 11/25/2003 18:33

LCSD 2003/11/25-2A.65-056

Extracted: 11/25/2003

Analyzed: 11/25/2003 18:56

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.0	23.8	25	104.0	95.2	8.8	65-165	20		
Benzene	25.1	24.9	25	100.4	99.6	0.8	69-129	20		
Toluene	24.6	23.8	25	98.4	95.2	3.3	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	460	446	500	92.0	89.2		76-114			
Toluene-d8	453	465	500	90.6	93.0		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2003 18:58

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 1871

Received: 11/17/2003 13:50

Site: 96 MacArthur Blvd. Oakland

---

Legend and Notes

---

**Analysis Flag**

o

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.



STL San Francisco

Sample Receipt Checklist

Submission #: 2003-11-0617

Checklist completed by: (initials) [Signature] Date: 11/18/03

Courier name:  STL San Francisco  Client

Custody seals intact on shipping container/samples Yes No Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance (4°C ± 2)? Temp: 9.2°C Yes  No

Water - VOA vials have zero headspace? No VOA vials submitted Yes  No

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O), or L (large - O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted - Preservative used  HNO3  HCl  H2SO4  NaOH  ZnOAc - Lot #(s)

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: 4 hrs of sampling

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/03

Client contacted:  Yes  No

Summary of discussion:

Corrective Action (per PM/Client):



**SECOR-Sacramento**

December 17, 2003

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Attn.: Amy Draffan  
Project: Conoco Phillips #1871  
Site: 96 Macarthur Blvd. Oakland

Attached is our report for your samples received on 12/04/2003 15:30  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
01/18/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [asalimpour@stl-inc.com](mailto:asalimpour@stl-inc.com)

Sincerely,



Afsaneh Salimpour  
Project Manager

**Gas/BTEX/MTBE by 8260B**

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips #1871

Received: 12/04/2003 15:30

Site: 96 Macarthur Blvd. Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	12/04/2003 14:00	Water	1
MW-7	12/04/2003 14:15	Water	2

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566  
Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/16/2003 10:00

**Gas/BTEX/MTBE by 8260B**

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips #1871

Received: 12/04/2003 15:30

Site: 96 Macarthur Blvd. Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2003-12-0153 - 1
Sampled:	12/04/2003 14:00	Extracted:	12/12/2003 19:34
Matrix:	Water	QC Batch#:	2003/12/12-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/12/2003 19:34	
Benzene	ND	0.50	ug/L	1.00	12/12/2003 19:34	
Toluene	ND	0.50	ug/L	1.00	12/12/2003 19:34	
Ethylbenzene	ND	0.50	ug/L	1.00	12/12/2003 19:34	
Total xylenes	ND	1.0	ug/L	1.00	12/12/2003 19:34	
Methyl tert-butyl ether (MTBE)	36	2.0	ug/L	1.00	12/12/2003 19:34	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.8	76-114	%	1.00	12/12/2003 19:34	
Toluene-d8	96.4	88-110	%	1.00	12/12/2003 19:34	



**Gas/BTEX/MTBE by 8260B**

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips #1871

Received: 12/04/2003 15:30

Site: 96 Macarthur Blvd. Oakland

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2003/12/12-2A.64-022

Water

Test(s): 8260B

QC Batch # 2003/12/12-2A.64

Date Extracted: 12/12/2003 18:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/12/2003 18:22	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	12/12/2003 18:22	
Benzene	ND	0.5	ug/L	12/12/2003 18:22	
Toluene	ND	0.5	ug/L	12/12/2003 18:22	
Ethylbenzene	ND	0.5	ug/L	12/12/2003 18:22	
Total xylenes	ND	1.0	ug/L	12/12/2003 18:22	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.8	76-114	%	12/12/2003 18:22	
Toluene-d8	95.0	88-110	%	12/12/2003 18:22	

**Gas/BTEX/MTBE by 8260B**

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips #1871

Received: 12/04/2003 15:30

Site: 96 Macarthur Blvd. Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/12/12-2A.64**

LCS 2003/12/12-2A.64-038

Extracted: 12/12/2003

Analyzed: 12/12/2003 17:38

LCSD 2003/12/12-2A.64-000

Extracted: 12/12/2003

Analyzed: 12/12/2003 18:00

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.3	22.8	25	89.2	91.2	2.2	65-165	20		
Benzene	22.9	22.7	25	91.6	90.8	0.9	69-129	20		
Toluene	23.5	24.1	25	94.0	96.4	2.5	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	456	470	500	91.2	94.0		76-114			
Toluene-d8	465	480	500	93.0	96.0		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/16/2003 10:00



**Gas/BTEX/MTBE by 8260B**

SECOR-Sacramento

Attn.: Amy Draffan

3017 Kilgore Road, Suite 100  
Rancho Cordova, CA 95670  
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: Conoco Phillips #1871

Received: 12/04/2003 15:30

Site: 96 Macarthur Blvd. Oakland

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**Legend and Notes**

---

**Analysis Flag**

o

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

# 2003-12-0153

## ConocoPhillips Chain Of Custody Record

80837

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS  
Attn: Dee Hochstetler  
3611 South Harbor, Suite 200  
Santa Ana, CA 92704

DATE: 12-04-03

PAGE: 01 of 01

SAMPLER COMPANY: <b>Secor Int.</b>		Year/Make/Id:	CONOCOPHILLIPS SITE NUMBER: <b>1871</b>	LEGAL # NO.:
ADDRESS: <b>3017 Kilgore Rd Rancho Cordova</b>		SITE ADDRESS (Street and City): <b>96 MacArthur Blvd Oakland</b>		
PROJECT CONTACT (Name, Title, or POB Report To): <b>Amy Draffan</b>		POB DELIVERABLE TO (POB or Designator):		
TELEPHONE: <b>916-961-0400</b>	FAX:	E-MAIL:		
SAMPLER NAME(S) (Print): <b>Mauricean Kean</b>		CONSULTANT PROJECT NUMBER:		

### REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		SPECIAL INSTRUCTIONS OR NOTES:		CHECK BOX IF EDD IS NEEDED <input type="checkbox"/>																																																							
<p>* Field Point name only required if different from Sample ID</p> <table border="1"> <thead> <tr> <th rowspan="2">Sample ID</th> <th colspan="2">Sample Identification/Field Point Name*</th> <th colspan="2">SAMPLING</th> <th rowspan="2">MATRIX</th> <th rowspan="2">NO. OF CONT.</th> <th rowspan="2">801 SW - TPH/d Extractable</th> <th rowspan="2">8250B - TPHg/BTEX/RB</th> <th rowspan="2">8260B - TPHg/BTEX/RB (Cyclohexanes)</th> <th rowspan="2">8260B - TPHg/BTEX/RB (Cyclohexanes + methanol) (60) (50)</th> <th rowspan="2">8260B - Full Scan VOCs (does not include oxygenates)</th> <th rowspan="2">8270C - Semi-Volatiles</th> <th rowspan="2">801 SW / 8021B - TPHg/BTEX/RB</th> <th rowspan="2">Lead</th> <th rowspan="2">Catalytic DTCU</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td>MW-1</td> <td></td> <td>12/4</td> <td>1400</td> <td>W</td> <td>3</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>MW-7</td> <td></td> <td>12/4</td> <td>1415</td> <td>W</td> <td>3</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Sample ID	Sample Identification/Field Point Name*		SAMPLING		MATRIX	NO. OF CONT.	801 SW - TPH/d Extractable	8250B - TPHg/BTEX/RB	8260B - TPHg/BTEX/RB (Cyclohexanes)	8260B - TPHg/BTEX/RB (Cyclohexanes + methanol) (60) (50)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	801 SW / 8021B - TPHg/BTEX/RB	Lead	Catalytic DTCU	DATE	TIME	DATE	TIME		MW-1		12/4	1400	W	3		<input checked="" type="checkbox"/>										MW-7		12/4	1415	W	3		<input checked="" type="checkbox"/>								
Sample ID	Sample Identification/Field Point Name*		SAMPLING		MATRIX		NO. OF CONT.	801 SW - TPH/d Extractable	8250B - TPHg/BTEX/RB	8260B - TPHg/BTEX/RB (Cyclohexanes)												8260B - TPHg/BTEX/RB (Cyclohexanes + methanol) (60) (50)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	801 SW / 8021B - TPHg/BTEX/RB	Lead	Catalytic DTCU																																
	DATE	TIME	DATE	TIME																																																							
	MW-1		12/4	1400	W	3		<input checked="" type="checkbox"/>																																																			
	MW-7		12/4	1415	W	3		<input checked="" type="checkbox"/>																																																			

FIELD NOTES:  
Contained/Preservative  
or PID Readings  
or Laboratory Notes

4.5°C

TEMPERATURE ON RECEIPT (°C)

Retrieved by (Signature): <b>Mauricean A Kean</b>	Received by (Signature): <b>Dee Hochstetler / STL-SF</b>	Date: <b>12-04-03</b>	Time: <b>1530</b>
Retrieved by (Signature):	Received by (Signature):	Date:	Time:
Retrieved by (Signature):	Received by (Signature):	Date:	Time:

12/16/2003 08:34 9156519430 SECOR PAGE 02/03