



SECOR
INTERNATIONAL
INCORPORATED

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Rancho Cordova, CA 95670
916-861-0400 TEL
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January 25, 2005

Mr. Thomas Kosel
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Alameda County
Environmental Health
FEB 24 2005

RE: **Quarterly Remedial Performance Summary-Fourth Quarter 2004**
76 Service 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. Included in this report are tables and figures summarizing the system operation during the current quarter. Field data sheets and laboratory reports are included as Attachments A and B, respectively. 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 SUMMARY

The ozone injection system consists of a panel mounted KVA C-Sparge™ System that produces up to 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 current quarter the system operated for 1,312 hours, resulting in 91% runtime. On December 2, 2004, the system was shut down due to a ruptured hose inside the ozone panel. The hose will be replaced in January 2005 and the system restarted.

The effectiveness of the ozone injection system is evaluated by groundwater sampling. Monthly groundwater samples were collected from monitoring wells MW-1 and MW-7 on October 5, November 5, and December 2, 2004 and analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tert-butyl ether (MtBE). Results of monthly groundwater sampling events are summarized in Table 2. Concentration versus time graphs for dissolved TPHg, benzene, and MtBE in monitoring wells MW-1 and MW-7 are provided in Figures 2 and 3. Field data sheets are provided in Attachment A. Certified laboratory analytical reports and chain-of-custody documentation are provided in Attachment B.

Quarterly Remedial Performance Summary
January 25, 2005
Page 2

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

Sincerely,
SECOR International Incorporated



Amy Draffan
Project Engineer



Rusty E. Benkosky, P.E.
Senior Engineer



Attachments: Figure 1 – Site Plan
Figure 2 – MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
Figure 3 – MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations

Table 1 – System Operation Data
Table 2 – Groundwater Analytical Data

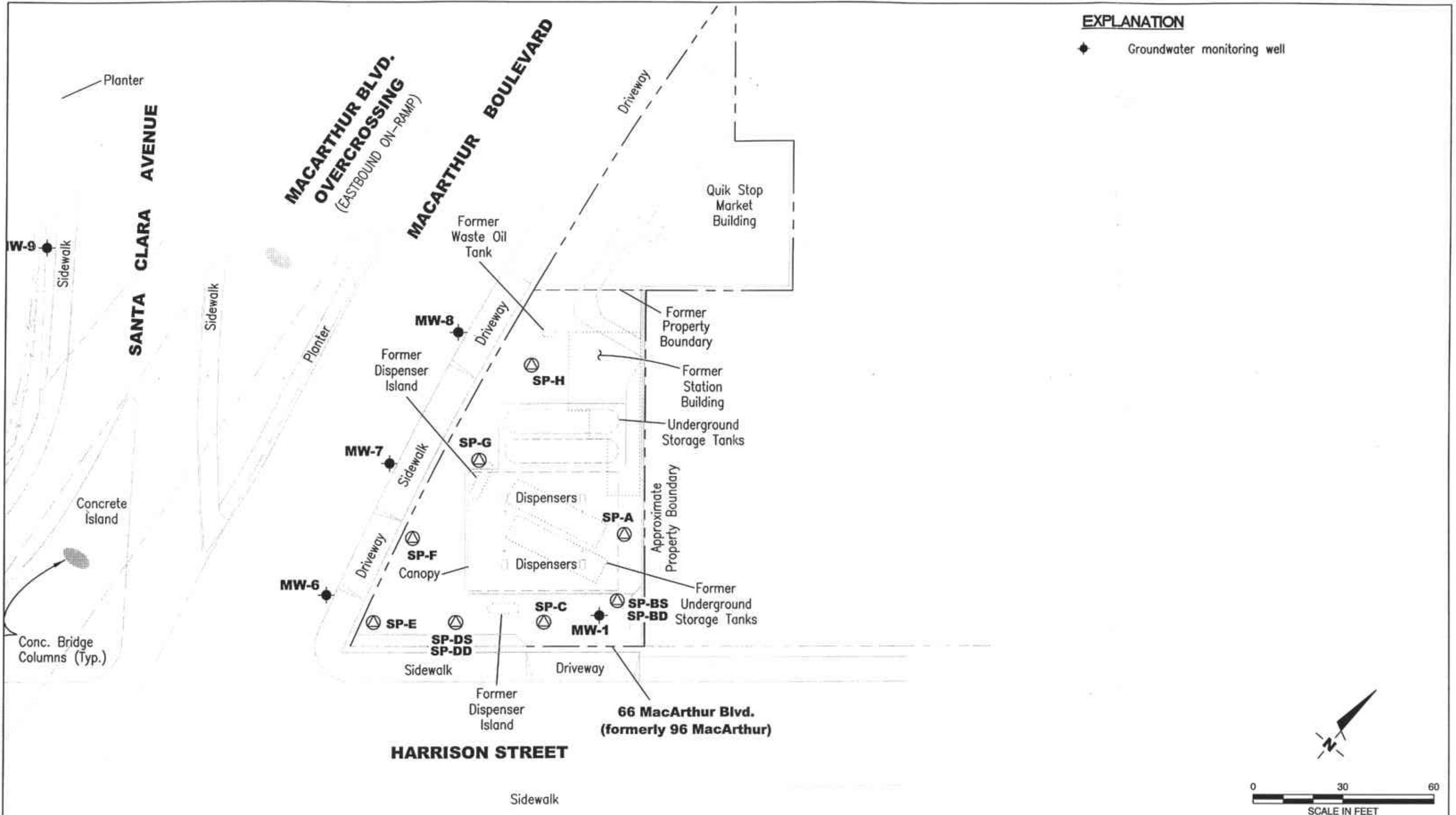
Attachment A – Field Data Sheets
Attachment B – Certified Laboratory Analytical Reports and Chain of Custody
Documentation

cc: Ms. Barbara Moed, TRC
Mr. Dan Truzzolino, DXT Services

RB/ad

EXPLANATION

◆ Groundwater monitoring well



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

Figure 2
MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California

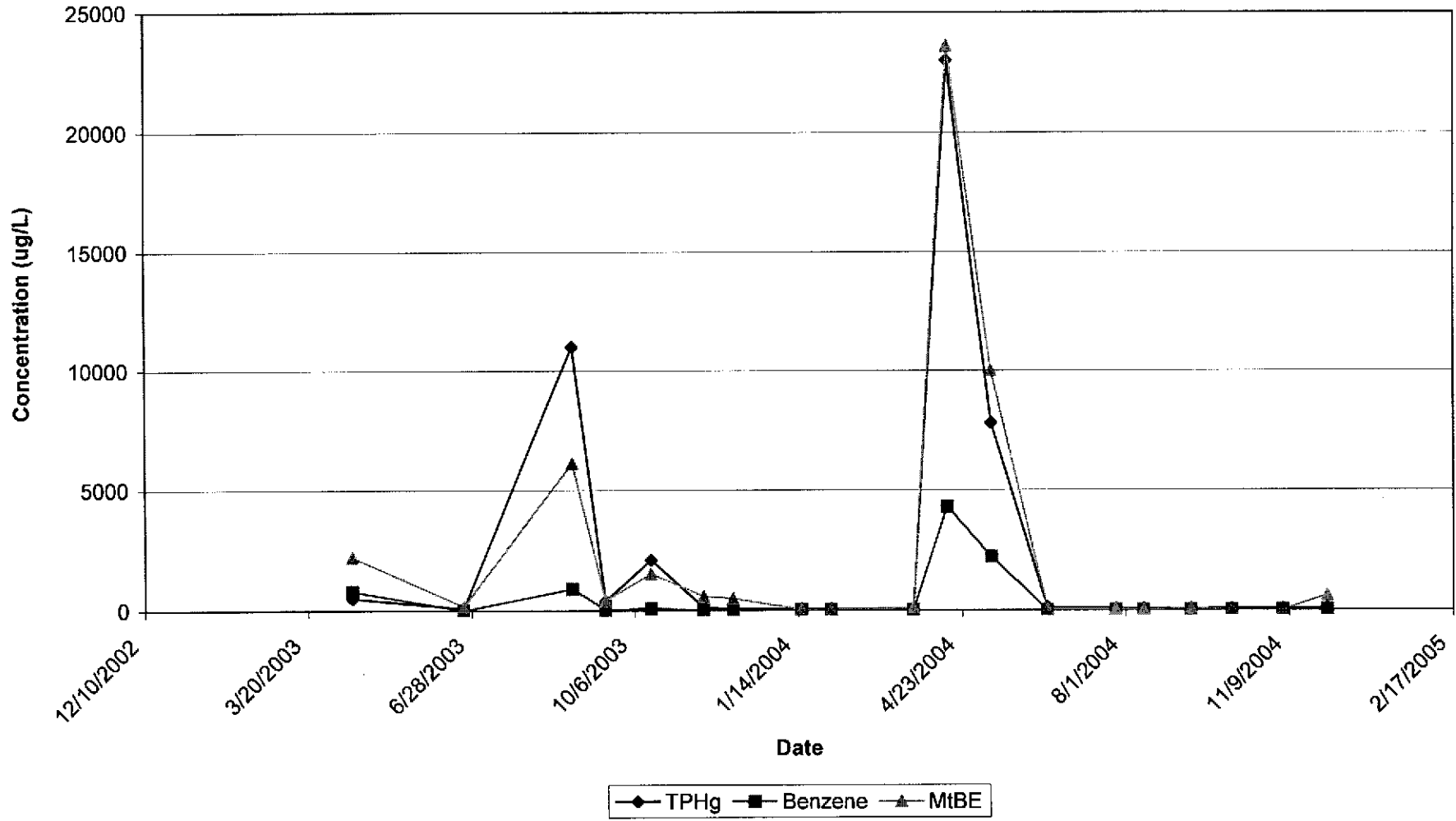


Figure 3
MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California

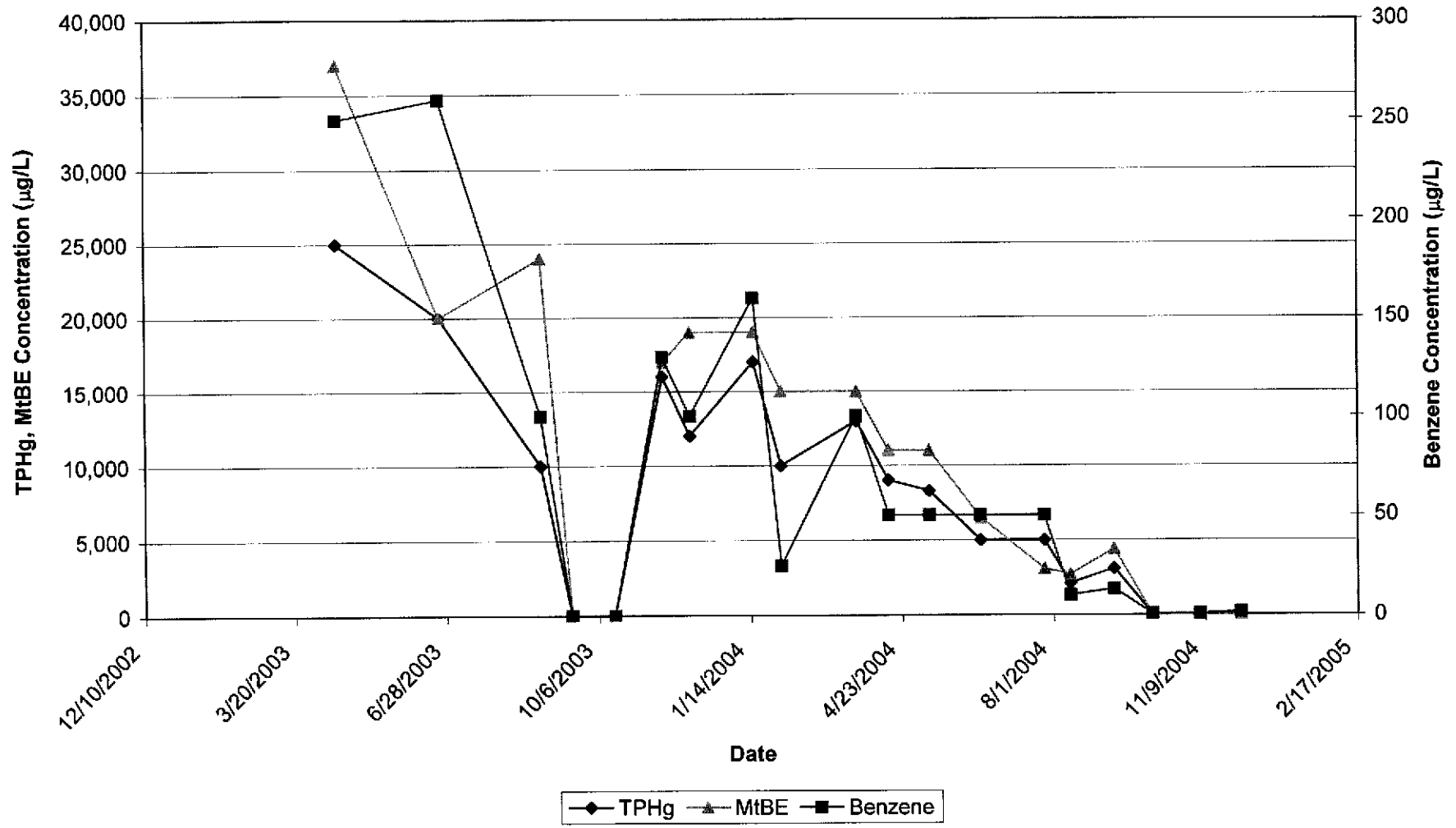


Table 1
Ozone Injection - System Operation Data
 76 Service Station No. 1871
 96 MacArthur Blvd., Oakland, California

Date	Notes	OZONE SPARGE SYSTEM					OZ-1	OZ-2	OZ-3	OZ-4	OZ-5	OZ-6	OZ-7	OZ-8	OZ-9	OZ-10	
		System Status (On/Off)		Hourmeter Reading	Period Online Factor	Cumulative Online Factor	Ozone Injected (lbs)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)
		Arrival	Departure														
6/23/03		On	On	8807.26	--	0.95	--	20	18	19	20	21	23	20	26	14	26
7/16/03		Off	On	8850.46	0.09	0.91	0.39	27	18	31	40	28	29	31	38	24	25
8/30/03		On	On	9180.61	0.35	0.86	2.97	17	15	17	19	19	19	20	26	19	26
9/18/03		On	On	9327.43	0.37	0.84	1.32	13.5	14.7	17.0	18.3	16.0	19.7	16.8	19.8	15.7	20
10/16/03		On	On	--	--	0.84	--	27.0	19.5	40.8	39.0	40.8	38.5	34.2	46.4	24.2	39.8
11/17/03		On	On	9696.55	0.29	0.81	--	11.0	20.0	17.0	18.0	17.5	17.0	16.0	21.0	51.0	22.0
12/5/03		On	On	9804.98	0.29	0.80	0.98	33.0	21.0	44.0	40.0	43.0	39.0	33.5	44.0	26.0	33.0
1/16/04		On	On	10471.28	0.76	0.79	6.00	12.5	11.0	18.5	16.5	17.5	17.0	16.0	20.0	16.0	20.0
2/3/04		On	On	10727.69	0.68	0.79	2.31	12.3	11.5	18.2	16.5	18.2	17.3	16.0	19.0	16.0	18.2
3/24/04		On	On	11424.95	0.66	0.78	6.28	31.0	18.3	37.5	26.0	34.0	33.2	32.3	41.5	23.0	31.0
4/14/04		On	On	11676.10	0.57	0.77	2.26	32.0	19.0	38.7	26.0	37.7	37.1	32.8	41.8	23.8	29.5
4/15/04	a	On	On	11685.29	0.44	0.77	0.08	--	--	--	--	--	--	--	--	--	--
4/16/04	a	On	On	11693.80	0.41	0.77	0.08	--	--	--	--	--	--	--	--	--	--
4/19/04	a	On	On	11742.90	0.78	0.77	0.44	--	--	--	--	--	--	--	--	--	--
4/23/04	a	On	On	11773.10	0.36	0.77	0.27	--	--	--	--	--	--	--	--	--	--
5/4/04		Off	On	11837.70	0.28	0.76	0.58	32.2	20.5	39.4	36.2	38.1	32.0	33.5	60.0	25.8	33.1
5/11/04		On	On	11950.51	0.77	0.76	1.02	32.5	20.0	38.5	29.8	38.8	39.5	34.8	60.0	23.5	35.9
6/14/04	b,c	On	On	12464.64	0.72	0.76	4.63	20.0	21.0	38.8	27.2	37.0	38.2	35.2	60.0	24.0	32.1
7/29/04	d	On	On	844.62	0.99	0.77	7.60	22	15	--	26	35	34	35	--	25	33
8/12/04	e	On	On	1075.97	0.98	0.78	2.08	--	--	--	--	--	--	--	--	--	--
9/10/04		On	On	1490.23	0.85	0.78	3.73	32	32	33	33	21	24	30	20	26	30
10/5/04		On	On	1868.83	0.90	0.78	3.41	31	32	33	31	22	23	31	21	26	28
11/5/04		On	On	2360.90	0.93	0.79	4.43	22	26	12	18	12	22	30	32	26	22
12/2/04	f	Off	Off	2802.02	0.97	0.79	3.97	--	--	--	--	--	--	--	--	--	--
1/13/05		Off	On	2802.07	0.00	0.76	0.00	23	27	15	20	15	23	31	34	28	25
Sparge time per cycle (min)							7	7	7	7	7	7	7	7	7	7	7
Reporting Period: Fourth Quarter 2004 (09/10/04 to 12/02/04) Total Hours Operational: 15,267 Total Pounds Ozone Injected: 27 Period Hours Operational: 1312 Period Percent Operational: 91% Period Pounds Ozone Injected: 12																	
Definitions: psi Pounds per square inch -- Data not available NA Not applicable lbs Pounds																	
Notes: System cycles through program 18 times per day, for 87.5% utilization a Troubleshooting time counter b Hourmeter replaced c Solenoid 8 has high pressure, taken offline d Solenoid 3 leaking, taken off line e Pressures not properly recorded f Ozone generator hose ruptured on effluent side to solenoid manifold. No Readings.																	

Table 2
Ozone Injection - Groundwater Monitoring Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California

Date	Notes	Monitoring Well: MW-1								Monitoring Well: MW-7							
		ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)
4/16/2003	a	NM	NM	510	57	0.62	29	61	160	NM	NM	<25,000	<250	<250	<250	<500	37,000
6/23/2003	a	NM	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	NM	11,000	64	<10	330	1,400	440	NM	NM	<10,000	<100	<100	<100	<200	24,000
9/18/2003		NM	NM	390	2.3	<0.50	3.6	31	30	NM	NM	--	--	--	--	--	--
10/16/2003		NM	NM	2,100	6.0	<0.50	24.0	120	110	NM	NM	--	--	--	--	--	--
11/17/2003		NM	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	NM	<50	<0.50	<0.50	<0.50	<1.0	36	NM	NM	12,000	<100	<100	<100	<200	19,000
1/16/2004	b	NM	NM	<50	<0.50	<0.50	<0.50	<1.0	<2.0	NM	NM	17,000	160	270	<130	<250	19,000
2/3/2004		238	NM	<50	<0.50	<0.50	<0.50	<1.0	<2.0	72	NM	10,000	<25	<25	<25	<50	15,000
3/24/2004	b	169	NM	55	<0.50	<0.50	0.80	2.9	7.8	56	NM	13,000	<100	<100	<100	<200	15,000
4/14/2004	b	0.4	NM	23,000	310	10	590	2400	1700	42	NM	9,000	<50	<50	<50	<100	11,000
5/11/2004	c	NM	NM	7,800	160	<10	170	700	720	-3	NM	8,300	<50	<50	<50	<100	11,000
6/14/2004		20	5.25	110	<0.50	<0.50	1.0	6.4	3.4	35	1.45	<5,000	<50	<50	<50	<100	6,500
7/26/2004		NM	NM	<50	<0.50	<0.50	<0.50	<1.0	3.2	NM	NM	<5,000	<50	<50	<50	<100	3,100
8/12/2004		171	0.07	<50	<0.50	<0.50	<0.50	<1.0	0.80	117	0.06	2,100	<10	<10	<10	<20	2,700
9/10/2004		180	0.08	<50	<0.50	<0.50	<0.50	<1.0	5.7	122	0.07	3,100	<13	<13	<13	<25	4,400
10/5/2004		175	0.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	117	0.08	<50	<0.50	<0.50	<0.50	<1.0	7.1
11/5/2004	d	117	0.05	<50	<0.50	<0.50	<0.50	<1.0	0.89	210	0.06	50	<0.50	<0.50	<0.50	<1.0	1.1
12/2/2004		109	0.03	83	0.83	<0.50	<0.50	1.2	44	214	0.03	180	1.6	<0.50	66	4.5	51

Definitions:

TPHg = Total petroleum hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter

ORP = Oxidation Reduction Potential
DO = Dissolved Oxygen
mV = Millivolts
mg/l = Milligrams per liter

Notes:

a Sampled by Gettler-Ryan, Inc.
b Hydrocarbon in gasoline range does not match laboratory gasoline standard.
c ORP reading under the range
d Quantity of unknown hydrocarbon(s) in sample based on gasoline.
-- Data not available
NM Not Measured

**ATTACHMENT A
FIELD DATA SHEETS**

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

ATTACHMENT B
CERTIFIED LABORATORY ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION

Quarterly Remedial Performance Summary

76 Service Station No. 1871

96 MacArthur Boulevard

Oakland, CA

SECOR Project No.: 77CP.60004.01.1871

SECOR-Sacramento

October 20, 2004

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Attn.: Amy Draffan

Project#: 77CP.60004.01.1871

Project: Conoco Philips Site # 1871

Site: 96 MacArthur Blvd, Oakland, California

Attached is our report for your samples received on 10/06/2004 11:15

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 11/20/2004 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

Sincerely,



Afsaneh Salimpour
Project Manager

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

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: 77CP.60004.01.1871
Conoco Philips Site # 1871

Received: 10/06/2004 11:15

Site: 96 MacArthur Blvd, Oakland, California

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/05/2004 11:00	Water	1
MW-7	10/05/2004 11:10	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: 77CP.60004.01.1871
Conoco Philips Site # 1871

Received: 10/06/2004 11:15

Site: 96 MacArthur Blvd, Oakland, California

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2004-10-0219 - 1
Sampled:	10/05/2004 11:00	Extracted:	10/17/2004 12:58
Matrix:	Water	QC Batch#:	2004/10/17-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/17/2004 12:58	
Benzene	ND	0.50	ug/L	1.00	10/17/2004 12:58	
Toluene	ND	0.50	ug/L	1.00	10/17/2004 12:58	
Ethylbenzene	ND	0.50	ug/L	1.00	10/17/2004 12:58	
Total xylenes	ND	1.0	ug/L	1.00	10/17/2004 12:58	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/17/2004 12:58	
Surrogate(s)						
1,2-Dichloroethane-d4	119.9	72-128	%	1.00	10/17/2004 12:58	
Toluene-d8	95.6	80-113	%	1.00	10/17/2004 12:58	

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

10/19/2004 13:04

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: 77CP.60004.01.1871
Conoco Phillips Site # 1871

Received: 10/06/2004 11:15

Site: 96 MacArthur Blvd, Oakland, California

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/10/17-1A.65-046

Water

Test(s): 8260B

QC Batch # 2004/10/17-1A.65

Date Extracted: 10/17/2004 09:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/17/2004 09:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/17/2004 09:46	
Benzene	ND	0.5	ug/L	10/17/2004 09:46	
Toluene	ND	0.5	ug/L	10/17/2004 09:46	
Ethylbenzene	ND	0.5	ug/L	10/17/2004 09:46	
Total xylenes	ND	1.0	ug/L	10/17/2004 09:46	
Surrogates(s)					
1,2-Dichloroethane-d4	98.2	72-128	%	10/17/2004 09:46	
Toluene-d8	86.6	80-113	%	10/17/2004 09:46	

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

10/19/2004 13:04

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: 77CP.60004.01.1871
Conoco Phillips Site # 1871

Received: 10/06/2004 11:15

Site: 96 MacArthur Blvd, Oakland, California

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/10/17-1A.65

LCS 2004/10/17-1A.65-000

Extracted: 10/17/2004

Analyzed: 10/17/2004 09:00

LCSD 2004/10/17-1A.65-023

Extracted: 10/17/2004

Analyzed: 10/17/2004 09:23

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	19.8	21.0	25	79.2	84.0	5.9	65-165	20		
Benzene	22.2	20.7	25	88.8	82.8	7.0	69-129	20		
Toluene	20.9	20.9	25	83.6	83.6	0.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	442	447	500	88.4	89.4		72-128			
Toluene-d8	462	468	500	92.4	93.6		80-113			

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

10/19/2004 13:04

2004-10-0219

ConocoPhillips Chain Of Custody Record

89529

STL-San Francisco

1220 Quarry Lane
Pleasanton, CA 94568
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

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

1120SEC550

ConocoPhillips Dev. Object

WNO:1120

DATE: 10/5/04
PAGE: 1 of 1

SAMPLING COMPANY:		VENDOR ID:		CONOCOPHILLIPS SITE NUMBER:		CUST. OBJECT:	
SECOR International Inc				1871		T0600101493	
ADDRESS:				SITE ADDRESS (Street and City):		CONOCOPHILLIPS SITE MANAGER:	
3017 Kilgore Rd Suite 106, Rancho Cordova, CA 95670				36 MacArthur Blvd, Oakland, California		Thomas Koel	
PROJECT CONTACT (Name/Title or PDF Report #):				PDF COLORABLE TO PDF or 2nd/3rd:		PHONE #:	
Amy Draffan				Amy Draffan		(916) 861-0400 ext 233	
TELEPHONE:		FAX:		E-MAIL:		SIGN USER ONE Y	
(916) 861-0400 x 233		(916) 861-0430		adraffan@secor.com			
SAMPLER NUMBER (P/N):		CONSULTANT PROJECT NUMBER:		REQUESTED ANALYSES			
Steve Thomson		77CP.61004.D1.1871					
TRIMMING 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"/>							

Sample ID	Field Point Name	DATE	TIME	MATRIX	NEL. OF CONT.	8015m - TPHd Extractable	8200B - TPHg/TEX/MBE	8200B - TPHg/STEX/TEX/MBE	8200B - TPHg/STEX/TEX/MBE + methanol (8015m)	8200B - Full Scan VOCs (does not include oxygenates)	8270C - 8m-Volatiles	8015m / 8021B - TPHg/STEX/MBE	Lead	Total	DBTL/C	OTCLP	FIELD NOTES:	
BRN-1		10/5/04	11:00	Water	3	X												20C
BRN-7		10/5/04	11:10	Water	3	X												

Sample Identification/Field Point		SAMPLING		MATRIX	NEL. OF CONT.	REQUESTED ANALYSES											FIELD NOTES:	
Name*		DATE	TIME			8015m - TPHd Extractable	8200B - TPHg/TEX/MBE	8200B - TPHg/STEX/TEX/MBE	8200B - TPHg/STEX/TEX/MBE + methanol (8015m)	8200B - Full Scan VOCs (does not include oxygenates)	8270C - 8m-Volatiles	8015m / 8021B - TPHg/STEX/MBE	Lead	Total	DBTL/C	OTCLP	TEMPERATURE ON RECEIPT C°	
BRN-1		10/5/04	11:00	Water	3	X												20C
BRN-7		10/5/04	11:10	Water	3	X												

Received by (Signature): <i>[Signature]</i>	Date: 10/5/04 12:17	Time: 12:47
Received by (Signature): <i>[Signature]</i>	Date: 10/6/04 0740	Time: 7:40
Received by (Signature): <i>[Signature]</i>	Date: 10/6/04	Time: 11:15

07/02/2004 15:19 9168610438 SECOR PAGE 20/20

SECOR-Sacramento

December 17, 2004

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Attn.: Rusty Benkosky
Project: Conoco Philips Site # 1871
Site: 96 MacArthur Blvd, Oakland, CA

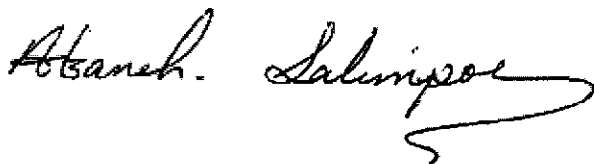
Attached is our report for your samples received on 12/03/2004 15:15
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
01/17/2005 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

Sincerely,



Afsaneh Salimpour
Project Manager

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Rusty Benkosky

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

Project: Conoco Philips Site # 1871

Received: 12/03/2004 15:15

Site: 96 MacArthur Blvd, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	12/02/2004 14:40	Water	1
MW-7	12/02/2004 14:50	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

01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Rusty Benkosky

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

Project: Conoco Phillips Site # 1871

Received: 12/03/2004 15:15

Site: 96 MacArthur Blvd, Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-7	Lab ID:	2004-12-0179 - 2
Sampled:	12/02/2004 14:50	Extracted:	12/8/2004 23:33
Matrix:	Water	QC Batch#:	2004/12/08-2B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	180	50	ug/L	1.00	12/08/2004 23:33	
Benzene	1.6	0.50	ug/L	1.00	12/08/2004 23:33	
Toluene	ND	0.50	ug/L	1.00	12/08/2004 23:33	
Ethylbenzene	0.66	0.50	ug/L	1.00	12/08/2004 23:33	
Total xylenes	4.5	1.0	ug/L	1.00	12/08/2004 23:33	
Methyl tert-butyl ether (MTBE)	51	0.50	ug/L	1.00	12/08/2004 23:33	
Surrogate(s)						
1,2-Dichloroethane-d4	98.3	73-130	%	1.00	12/08/2004 23:33	
Toluene-d8	95.2	81-114	%	1.00	12/08/2004 23:33	

Severn Trent Laboratories, Inc.

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01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Rusty Benkosky

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430
Project: Conoco Philips Site # 1871

Received: 12/03/2004 15:15
Site: 96 MacArthur Blvd, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2004/12/08-2B.64

MB: 2004/12/08-2B.64-006

Date Extracted: 12/08/2004 18:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/08/2004 18:06	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/08/2004 18:06	
Benzene	ND	0.5	ug/L	12/08/2004 18:06	
Toluene	ND	0.5	ug/L	12/08/2004 18:06	
Ethylbenzene	ND	0.5	ug/L	12/08/2004 18:06	
Total xylenes	ND	1.0	ug/L	12/08/2004 18:06	
Surrogates(s)					
1,2-Dichloroethane-d4	92.8	73-130	%	12/08/2004 18:06	
Toluene-d8	98.2	81-114	%	12/08/2004 18:06	

Severn Trent Laboratories, Inc.

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

01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Rusty Benkosky

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

Project: Conoco Phillips Site # 1871

Received: 12/03/2004 15:15

Site: 96 MacArthur Blvd, Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/12/10-2B.62-025

Water

Test(s): 8260B

QC Batch # 2004/12/10-2B.62

Date Extracted: 12/10/2004 19:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/10/2004 19:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/10/2004 19:25	
Benzene	ND	0.5	ug/L	12/10/2004 19:25	
Toluene	ND	0.5	ug/L	12/10/2004 19:25	
Ethylbenzene	ND	0.5	ug/L	12/10/2004 19:25	
Total xylenes	ND	1.0	ug/L	12/10/2004 19:25	
Surrogates(s)					
1,2-Dichloroethane-d4	97.2	73-130	%	12/10/2004 19:25	
Toluene-d8	104.2	81-114	%	12/10/2004 19:25	

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01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Rusty Benkosky

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

Project: Conoco Philips Site # 1871

Received: 12/03/2004 15:15

Site: 96 MacArthur Blvd, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/08-2B.64

LCS 2004/12/08-2B.64-043

Extracted: 12/08/2004

Analyzed: 12/08/2004 17:43

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.4		25	97.6			65-165	20		
Benzene	24.3		25	97.2			69-129	20		
Toluene	24.2		25	96.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	454		500	90.8			73-130			
Toluene-d8	490		500	98.0			81-114			

Severn Trent Laboratories, Inc.

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

01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Rusty Benkosky

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430
Project: Conoco Phillips Site # 1871

Received: 12/03/2004 15:15
Site: 96 MacArthur Blvd, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/10-2B.62

LCS 2004/12/10-2B.62-002
LCSD

Extracted: 12/10/2004

Analyzed: 12/10/2004 19:02

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.2		25	96.8			65-165	20		
Benzene	25.5		25	102.0			69-129	20		
Toluene	26.1		25	104.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	475		500	95.0			73-130			
Toluene-d8	520		500	104.0			81-114			

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

01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento

Attn.: Rusty Benkosky

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

Project: Conoco Philips Site # 1871

Received: 12/03/2004 15:15

Site: 96 MacArthur Blvd, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/12/08-2B.64

MS/MSD

Lab ID: 2004-12-0209 - 003

MS: 2004/12/08-2B.64-028

Extracted: 12/08/2004

Analyzed: 12/08/2004 19:28

Dilution: 1.00

MSD: 2004/12/08-2B.64-050

Extracted: 12/08/2004

Analyzed: 12/08/2004 19:50

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	23.9	27.0	ND	25	95.6	108.0	12.2	65-165	20		
Benzene	24.4	27.2	ND	25	97.6	108.8	10.9	69-129	20		
Toluene	24.7	27.2	ND	25	98.8	108.8	9.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	426	471		500	85.2	94.2		73-130			
Toluene-d8	487	479		500	97.4	95.8		81-114			

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

01/10/2005 10:15

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Rusty Benkosky

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430
Project: Conoco Phillips Site # 1871

Received: 12/03/2004 15:15
Site: 96 MacArthur Blvd, Oakland, CA

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/12/10-2B.62**

MS/MSD Lab ID: 2004-12-0333 - 010

MS: 2004/12/10-2B.62-018 Extracted: 12/10/2004 Analyzed: 12/10/2004 20:18

Dilution: 1.00

MSD: 2004/12/10-2B.62-041 Extracted: 12/10/2004 Analyzed: 12/10/2004 20:41

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	30.4	29.4	ND	25	121.6	117.6	3.3	65-165	20		
Benzene	26.0	29.1	ND	25	104.0	116.4	11.3	69-129	20		
Toluene	25.1	28.2	ND	25	100.4	112.8	11.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	567	554		500	113.4	110.8		73-130			
Toluene-d8	520	503		500	104.0	100.6		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Rusty Benkosky

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

Project: Conoco Philips Site # 1871

Received: 12/03/2004 15:15

Site: 96 MacArthur Blvd, Oakland, CA

Legend and Notes

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

SECOR-Sacramento

November 29, 2004

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Attn.: Amy Draffan

Project#: 77CP.60004.01.1871

Project: Conoco Philips Site #1871

Site: 96 MacArthur Blvd., Oakland, CA

Attached is our report for your samples received on 11/11/2004 12:20

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 12/26/2004 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

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: 77CP.60004.01.1871
Conoco Philips Site #1871

Received: 11/11/2004 12:20

Site: 96 MacArthur Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/05/2004 14:00	Water	1
MW-7	11/05/2004 14:10	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

11/29/2004 08:39

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: 77CP.60004.01.1871
Conoco Philips Site #1871

Received: 11/11/2004 12:20

Site: 96 MacArthur Blvd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/11/19-1B.65-014

Water

Test(s): 8260B

QC Batch # 2004/11/19-1B.65

Date Extracted: 11/19/2004 14:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/19/2004 14:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/19/2004 14:14	
Benzene	ND	0.5	ug/L	11/19/2004 14:14	
Toluene	ND	0.5	ug/L	11/19/2004 14:14	
Ethylbenzene	ND	0.5	ug/L	11/19/2004 14:14	
Total xylenes	ND	1.0	ug/L	11/19/2004 14:14	
Surrogates(s)					
1,2-Dichloroethane-d4	107.0	72-128	%	11/19/2004 14:14	
Toluene-d8	105.0	80-113	%	11/19/2004 14:14	

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

11/29/2004 08:39

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: 77CP.60004.01.1871
Conoco Philips Site #1871

Received: 11/11/2004 12:20

Site: 96 MacArthur Blvd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/11/19-1B.65

LCS 2004/11/19-1B.65-049
LCSD

Extracted: 11/19/2004

Analyzed: 11/19/2004 13:49

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.4		25	97.6			65-165	20		
Benzene	22.5		25	90.0			69-129	20		
Toluene	25.3		25	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448		500	89.6			72-128			
Toluene-d8	538		500	107.6			80-113			

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

11/29/2004 08:39

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: 77CP.60004.01.1871
Conoco Philips Site #1871

Received: 11/11/2004 12:20

Site: 96 MacArthur Blvd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/11/19-1B.65

MW-1 >> MS

Lab ID: 2004-11-0443 - 001

MS: 2004/11/19-1B.65-007

Extracted: 11/19/2004

Analyzed: 11/19/2004 21:07

Dilution: 1.00

MSD: 2004/11/19-1B.65-031

Extracted: 11/19/2004

Analyzed: 11/19/2004 21:31

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	14.9	11.4	ND	25	59.6	45.6	26.6	69-129	20	M5	M5,R1
Toluene	21.4	21.3	ND	25	85.6	85.2	0.5	70-130	20		
Methyl tert-butyl ether	24.6	24.4	0.893	25	94.8	94.0	0.8	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	487	291		500	97.4	58.2		72-128			S6
Toluene-d8	542	504		500	108.4	100.8		80-113			

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

11/29/2004 08:39

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: 77CP.60004.01.1871
Conoco Philips Site #1871

Received: 11/11/2004 12:20

Site: 96 MacArthur Blvd., Oakland, CA

Legend and Notes

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

R1

Analyte RPD was out of QC limits.

S6

Surrogate recoveries lower than acceptance limits.

95641

ConocoPhillips Chain Of Custody Record

STL  Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

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

2004-11-0443

ConocoPhillips Work Order Number

1120SEC550

ConocoPhillips Cost Object

WNO.1120

DATE: 11/5/04

PAGE: 1 of 1

SAMPLING COMPANY: SECOR International Inc		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 1871		GLOBAL ID NO.: T0600101493
ADDRESS: 3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 96 MacArthur Blvd, Oakland, California		CONOCOPHILLIPS SITE MANAGER: Thomas Kosel	
PROJECT CONTACT (Hardcopy or PDF Request to): Amy Draffan		EFFECT DELIVERABLE TO (RFP or Designer): Amy Draffan		PHONE NO.: (916) 861-0400 ext 235	EMAIL: adraffan@secor.co
TELEPHONE: (916) 861-0400 x 235	FAX: (916) 861-0430	E-MAIL: adraffan@secor.com	LAB USE ONLY		

SAMPLER NAME(S) (Print): <i>Steve Thompson</i>	CONSULTANT PROJECT NUMBER: 77CP.60004.01.1871	REQUESTED ANALYSES			
---	---	--------------------	--	--	--

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS
 7 DAYS
 72 HOURS
 48 HOURS
 24 HOURS
 LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EDD IS NEEDED

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONY.	8015M - TPH/d Extractable	8280B - TPHg/BTEX/MBE	8280B - TPHg / BTEX / 8 Oxidates	8280B - TPHg / BTEX / 8 byxogenates + methanol (8015M)	8280B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8016M / 8021B - TPHg/BTEX/MBE	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 20C	TEMPERATURE ON RECEIPT C°
		DATE	TIME												
	MW-1	<i>11/5/04</i>	<i>2:00</i>	Water	3		X								
	MW-7	<i>11/5/04</i>	<i>2:10</i>	Water	3		X								

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <i>11-5-04 13:00</i>	Time:
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <i>11-11-04 1505</i>	Time: <i>1505</i>
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>Dee Hutchinson / STL-SF</i>	Date: <i>11-11-04</i>	Time: <i>1220</i>