



Kosel 408
76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

May 20, 2005

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

Re: **Document Transmittal**
Fuel Leak Case
76 Station #3135
845 66th Avenue
Oakland, CA

Dear Mr. Hwang:

Please find attached TRC's *Dual-Phase Extraction Report*, dated 5/24/05. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or report is true and correct.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas H. Kosel".

Thomas H. Kosel
Site Manager, Risk Management and Remediation
ConocoPhillips
76 Broadway, Sacramento, CA 95818

Attachment
cc: Roger Batra, TRC



May 24, 2005

TRC Project No. 42-0138-04

Mr. Don Hwang
Alameda County Health Services
1131 Harbor Bay Parkway, Suite 250
Oakland, California 94502

SITE: 76 SERVICE STATION NO. 3135
845 66th AVENUE
OAKLAND, CALIFORNIA
ALAMEDA COUNTY

SUBJECT: DUAL-PHASE EXTRACTION REPORT

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC submits this report of dual-phase extraction (DPE) activities for ConocoPhillips Station No. 3135, located at 845 66th Avenue in Oakland, California. This action was performed in accordance with the workplan submitted by TRC on September 23, 2004. The work was conducted on April 10, 2005, and consisted of 8 continuous hours of DPE.

1.0 FIELD ACTIVITIES

1.1 Scope of Work

An 8-hour DPE event was performed on April 10, 2005. The DPE event was implemented to attempt to remove residual vapor-phase, adsorbed-phase and dissolved-phase hydrocarbons remaining in site soils. The event was originally scheduled to last 24-hours, but was terminated after 8 hours due to insufficient hydrocarbon recovery.

1.2 Pre-Field Activities

A notification letter dated March 30, 2005 was sent to the Bay Area Air Quality Management District (BAAQMD). A site-specific health and safety plan was prepared for TRC personnel.

1.3 Procedures

TRC used a mobile treatment system (MTS) to extract hydrocarbon vapors from monitoring well MW-6. Liquid- and vapor-phase hydrocarbons were removed from the extraction well and separated at the MTS. The liquids were automatically transferred into an aboveground storage

tank and the hydrocarbon vapors were abated using a catalytic/thermal oxidizer. The exclusion zone was constructed with consideration of the station refueling activities. As a result, refueling activities continued without interruption during the DPE event.

The extraction well was fitted with a custom wellhead seal and connected with flexible hose to convey soil vapors to the MTS unit. The MTS consists of a truck-mounted high vacuum (28 inches of Hg) liquid ring pump and thermal oxidizer, moisture knockout tank, air particulate filters, and all necessary piping and gauges. Abated soil vapors were discharged to the atmosphere.

A TRC operator was onsite throughout the course of the event to record system airflow rates [cubic feet per minute (cfm)], applied vacuum in the conveyance piping [inches of mercury (inches Hg)], and influent soil vapor screening data [parts per million by volume (ppmv)]. A HoribaTM organic vapor analyzer (OVA) was used to screen influent soil vapor concentrations.

Three influent soil vapor samples were collected in TedlarTM bags and submitted to a certified analytical laboratory under chain-of-custody documentation. Samples were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethyl benzene, and total xylenes (BTEX compounds), methyl tertiary butyl ether (MTBE), and ethanol using Environmental Protection Agency (EPA) Method 8260B.

1.4 Results

During the event, the MTS unit operated continuously for a total of 8 hours. Extraction was limited to well MW-6 as it had exhibited consistently high dissolved-phase hydrocarbon concentrations during monitoring and sampling events.

Refer to Table 1 for tabulated MTS data, and Appendix A for field data sheets. The average flow rate was 6 cfm and average applied vacuum was 23 inches Hg. OVA screening for influent concentrations of total petroleum hydrocarbons was performed during the event. Total petroleum hydrocarbon concentrations were measured with the OVA at the beginning and conclusion of the event at 780 ppmv and 400 ppmv, respectively. Total estimated hydrocarbon mass removal and hydrocarbon concentration are plotted versus time in Figure 3.

Laboratory analytical results are presented in Table 2, *Summary Sheet*. All certified analytical reports and chain-of-custody documentation are presented in Appendix B. Vapor-phase TPH-g concentrations ranged from 310 ppmv to 20 ppmv. Benzene concentrations ranged from 0.87 ppmv to 0.53 ppmv. MTBE concentrations range from 0.88 ppmv to 0.18 ppmv. Laboratory analytical TPH-g and benzene concentrations are plotted versus time in Figure 4. Vapor-phase TPH and benzene concentrations decreased during the event.

Influent soil vapor concentration data (measured every 30 minutes throughout the course of the event) was used to calculate mass removed during the DPE event. Table 1 presents the results.

Approximately 0.37 pounds of hydrocarbons were removed from the extraction wells in 8 hours of operation. A total of 5,000 gallons of groundwater were removed from the subsurface.

1.5 Waste Disposal

Groundwater generated during the course of DPE activities was transported by Onyx Environmental to the ConocoPhillips refinery in Rodeo, California for treatment and disposal. A copy of the waste manifest is included in Appendix C.

2.0 EVALUATION OF FINDINGS

The 8-hour DPE event was not successful at removing vapor-phase petroleum hydrocarbons from the subsurface. Influent vapor concentrations were low and remained low throughout the course of the event. Due to the low permeability soils in the subsurface, flow rates could not be elevated to a productive level.

The influent concentrations and mass removal rates suggest that DPE is not a viable remedial alternative for removing source hydrocarbons from this site.

Dissolved-phase hydrocarbon concentrations in the extraction well (MW-6) were lower after the MTS event. The decrease could be a result of the of the groundwater extraction activity, but the data is not conclusive.

3.0 RECOMMENDATIONS

Given the lack of productivity of DPE activities during this test, TRC recommends that DPE not be considered a viable potential remediation technique at the site.

TRC recommends investigation of alternative remedial methods to obtain site closure.

4.0 LIST OF ATTACHMENTS

Figures: 1) Vicinity Map
 2) Site Plan
 3) System Concentration and Hydrocarbon Recovery Versus Time
 4) Vapor-Phase TPH and Benzene Concentrations Versus Time

Tables: 1) Mobile Treatment System Vacuum Extraction Data
 2) Vacuum Extraction Event Report - Summary Sheet

Appendices: A) MTS Field Sheets
 B) Laboratory Analytical Reports

Dual-Phase Extraction Report
ConocoPhillips Station No. 3135
May 24, 2005

C) Waste Manifest

Should you have any questions regarding this report, please contact us at (925) 688-1200.

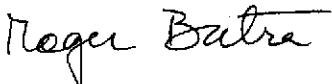
Sincerely,
TRC



Mark Trevor
Project Geologist

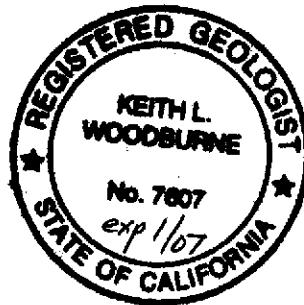


Keith Woodburne, R.G.
Senior Project Geologist



Roger Batra
Senior Project Manager

cc: Mr. Thomas Kosel, ConocoPhillips (electronic upload only)





1 MILE

3/4

1/2

1/4

0

1 MILE

SCALE 1 : 24,000

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps:
Oakland East and San Leandro
Quadrangles
California

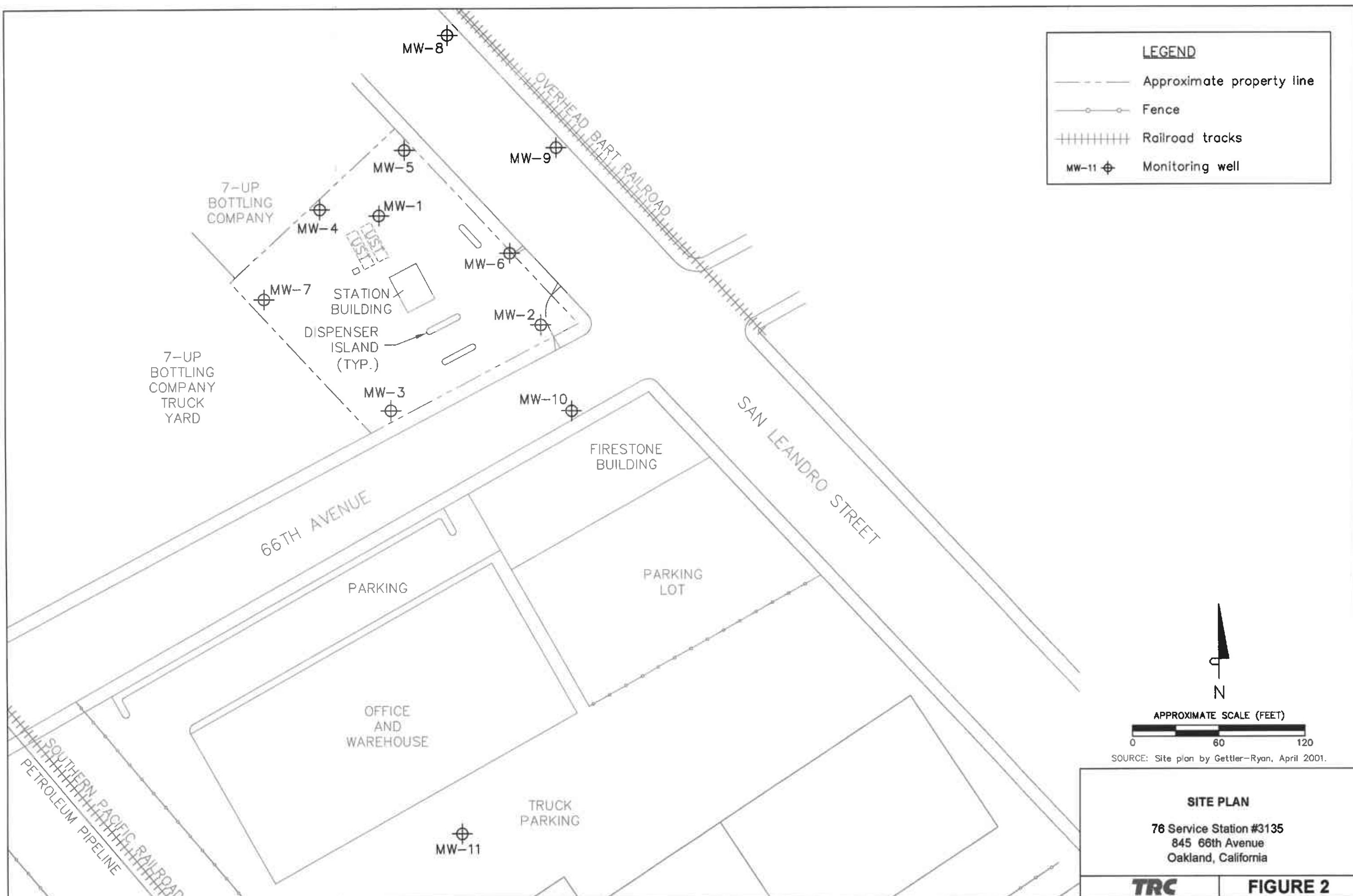


VICINITY MAP

76 Service Station #3135
845 66th Avenue
Oakland, California

TRC

FIGURE 1



SYSTEM CONCENTRATION AND HYDROCARBON RECOVERY VERSUS TIME

ConocoPhillips 3135
845 66th Avenue, Oakland CA
April 10, 2005

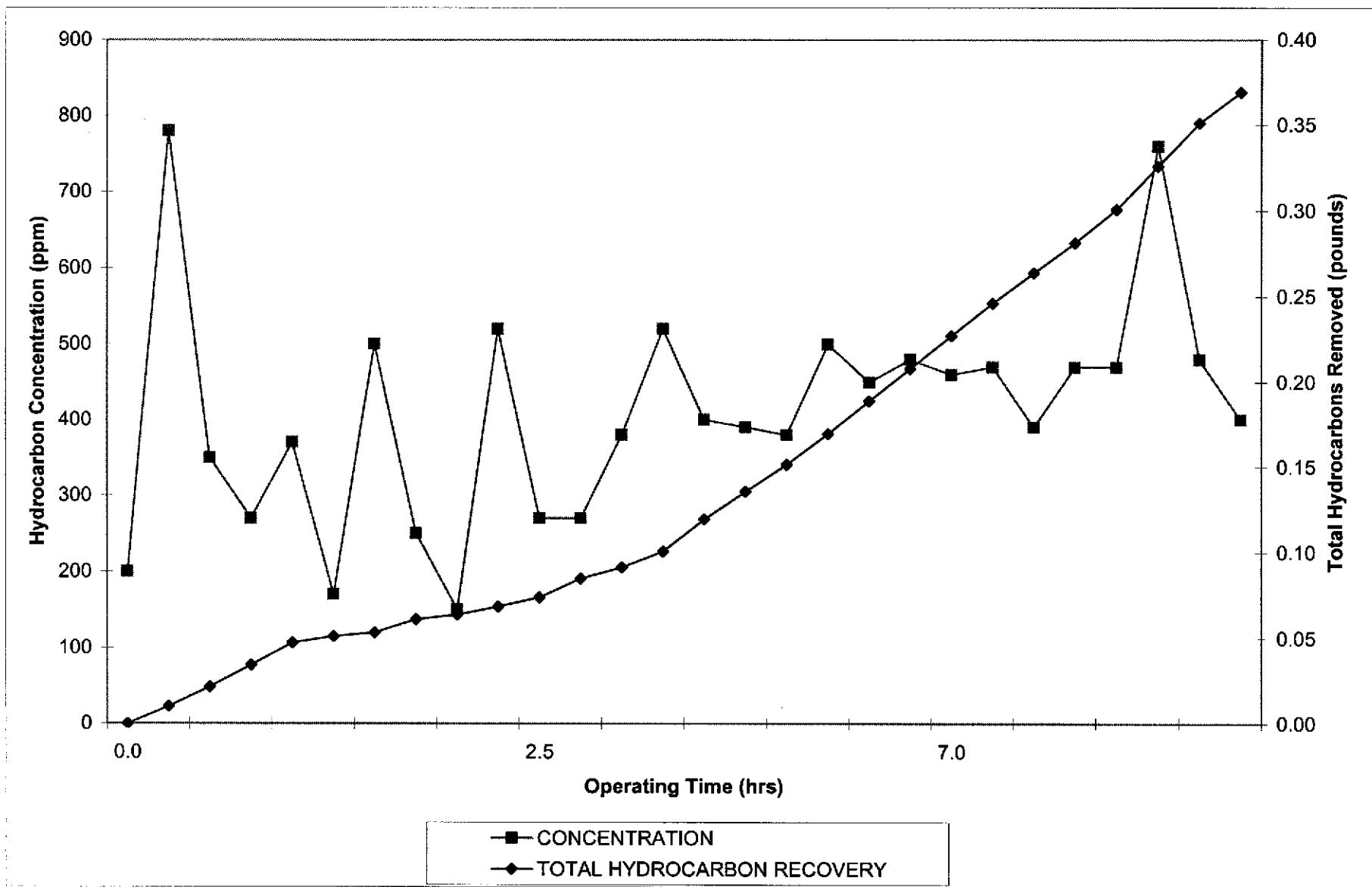


FIGURE 3

Vapor - Phase TPH and Benzene Concentrations Versus Time

ConocoPhillips 3135
845 66th Avenue, Oakland, CA
April 10, 2005

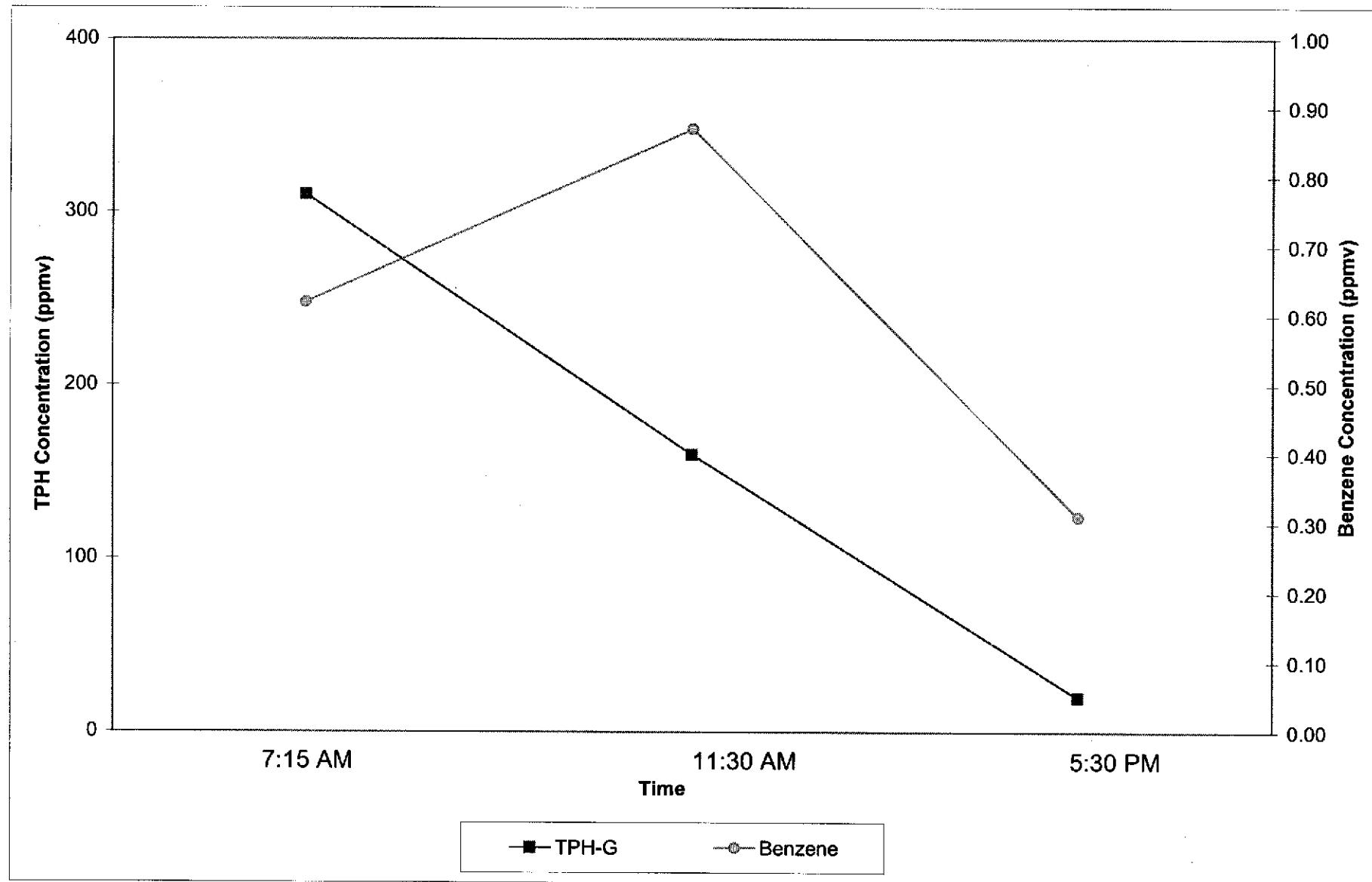


FIGURE 4

Table 1
MOBILE TREATMENT SYSTEM VACUUM EXTRACTION DATA
ConocoPhillips 3135
845 66th Avenue, Oakland CA
April 10, 2005

DATE	TIME	ELAPSED TIME (MINUTES)	TOTAL TIME (HOURS)	TOTAL SYSTEM MEASUREMENTS					EXTRACTION WELL OPEN	
				INLET BLOWER VACUUM (IN OF Hg)	SYSTEM INLET FLOW* (CFM)	CONCENTRATION** (PPMV)	CUMULATIVE HYDROCARBON RECOVERY			
							POUNDS	GALLONS*		
10-Apr-05	7:00	0.0	0.0	24.5	6	200	0.00	0.00	MW-6	
10-Apr-05	7:15	15.00	0.25	26.0	6	780	0.01	0.00	MW-6	
10-Apr-05	7:30	15.00	0.50	25.5	6	350	0.02	0.00	MW-6	
10-Apr-05	8:00	30.00	1.00	24.1	6	270	0.03	0.01	MW-6	
10-Apr-05	8:30	30.00	1.50	23.0	6	370	0.05	0.01	MW-6	
10-Apr-05	8:40	10.00	1.67	22.5	6	170	0.05	0.01	MW-6	
10-Apr-05	8:45	5.00	1.75	22.0	6	500	0.05	0.01	MW-6	
10-Apr-05	9:00	15.00	2.00	21.6	6	250	0.06	0.01	MW-6	
10-Apr-05	9:10	10.00	2.17	20.5	6	150	0.06	0.01	MW-6	
10-Apr-05	9:20	10.00	2.33	20.6	6	520	0.07	0.01	MW-6	
10-Apr-05	9:30	10.00	2.50	20.6	6	270	0.07	0.01	MW-6	
10-Apr-05	10:00	30.00	3.00	20.4	6	270	0.08	0.01	MW-6	
10-Apr-05	10:15	15.00	3.25	25.0	6	380	0.09	0.01	MW-6	
10-Apr-05	10:30	15.00	3.50	24.5	6	520	0.10	0.02	MW-6	
10-Apr-05	11:00	30.00	4.00	23.3	6	400	0.12	0.02	MW-6	
10-Apr-05	11:30	30.00	4.50	21.5	6	390	0.14	0.02	MW-6	
10-Apr-05	12:00	30.00	5.00	20.5	6	380	0.15	0.02	MW-6	
10-Apr-05	12:30	30.00	5.50	23.0	6	500	0.17	0.03	MW-6	
10-Apr-05	13:00	30.00	6.00	22.0	6	450	0.19	0.03	MW-6	
10-Apr-05	13:30	30.00	6.50	24.3	6	480	0.21	0.03	MW-6	
10-Apr-05	14:00	30.00	7.00	23.7	6	460	0.23	0.04	MW-6	
10-Apr-05	14:30	30.00	7.50	22.2	6	470	0.25	0.04	MW-6	
10-Apr-05	15:00	30.00	8.00	22.2	6	390	0.26	0.04	MW-6	
10-Apr-05	15:30	30.00	8.50	22.0	6	470	0.28	0.04	MW-6	
10-Apr-05	16:00	30.00	9.00	22.0	6	470	0.30	0.05	MW-6	
10-Apr-05	16:30	30.00	9.50	24.5	6	760	0.33	0.05	MW-6	
10-Apr-05	17:00	30.00	10.00	24.0	6	480	0.35	0.06	MW-6	
10-Apr-05	17:30	30.00	10.50	23.0	6	400	0.37	0.06	MW-6	
TOTAL HYDROCARBONS RECOVERED						0.37	0.06			
TOTAL WATER RECOVERED (GALLONS)						5,000				

Notes

TPH = total petroleum hydrocarbons

CFM = cubic feet per minute

IN of Hg = inches of mercury

ppmv = per million by volume

— = Unit down for extraction well transfer

* = Based on hydrocarbon density of 6.28 pounds per gallon.

** = Based on field Horiba OVA readings.

Table 2**TRC****Vacuum Extraction Event Report****Summary Sheet**

76 Station 3135
845 66th Avenue
Oakland, California

BAAQMD # **262**
NPDES# **NA**

VACUUM EXTRACTION PERFORMANCE

Date(s) of Event(s):	10-Apr-05
Total Operating Hours:	8.00
Technology Used:	High-vacuum liquid-ring pump with Thermal Oxidizer
Total System Max/Min Influent Vapor Concentration (ppmv):	780 / 150
Total System Max/Min Flow Rate (cfm):	6 / 6
Total Max/Min Vacuum (in Hg):	26.0 / 20.4
Total Recovery Volume by Vapor (pounds/gallons):	0.37 / 0.06

LABORATORY ANALYSIS OF VAPOR SAMPLES

Well ID	Date	Time Sampled	Sample Result (ppmv)							Comments
			TPH-G *	Benzene*	Toluene*	Ethyl Benzene*	Total Xylenes*	MTBE*		
MW-6	10-Apr-05	7:15 AM	310	ND<0.62	1.8	1.7	5.3	ND<0.28		Influent
MW-6	10-Apr-05	11:30 AM	160	0.87	1.8	2.3	8.6	0.88		Influent
MW-6	10-Apr-05	5:30 PM	160	0.53	0.89	1.2	4.1	0.18		Influent

LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

Well ID	Date	Time Sampled	Sample Result (ug/L)							Comments
			TPH-G *	Benzene*	Toluene*	Ethyl Benzene*	Total Xylenes*	MTBE*		
MW-6	14-Feb-05	12:36 PM	6,600	44	9	640	750	160		pre MTS
MW-1	09-May-05	2:12 PM	5,400	26	12	480	1,900	35		post MTS

ADDITIONAL INFORMATION:

* = Analyzed by EPA method 8260B
PPMV = parts per million by volume
ug/L = micrograms per liter
cfm = cubic feet per minute
in Hg = inches of mercury
TPH-g = total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-Butyl Ether
N.D. = not detectable
NA = not tested

Note: Total system concentration and flow measurements are taken on the pressure side of the blower after dilution.

Prepared by: _____

Mark Trevor, Project Geologist

TRC Project No: 42-0138-04



MTS FIELD DATA

Client: CONOCO PHILLIPS
 Site: 710 3135
 Date: 4/10/05

Customer-Focused Solutions

MTS Unit #: 0934

Laptop Unit #: 3

Sheet: 1 / 1

Project No.: 42-0138-04
 Task No.: UAO3
 Technician: LCC RG

CUMULATIVE WELLS								EXTRACTION WELL #1				EXTRACTION WELL #2				
TOTALIZER START (gallons):				Time:				WELL ID: MW-6								
TOTALIZER END (gallons):				Time:				DTW (ft): 5.01'								
STACK HC CONCENTRATION (ppmv):				Time:				DEPTH to FP (ft): ~ NO -								
Mwats (d)								TOTAL DEPTH (ft): 25.65								
CASING DIAM. (in): 2"								Casing Diam. (in): 2"								
VACUUM SIDE DATA		PRESSURE SIDE DATA														
Time (24 hr.)	Total Well Flow DP (in. H2O)	Total Well Flow Rate (scfm)	Total Well Inf. Conc. (ppmv)	Manifold Vacuum (in. of Hg)	+20° Temp	108°	System Flow DP (in. H2O)	System Flow Rate (scfm)	System Inf. Conc. (ppmv)	System Temp (deg. F)	Extraction wells open:	Flow DP (in. H2O)	Flow Rate (scfm)	HC Conc. (ppmv)	Vacuum (in. of Hg)	Stinger Depth (ft)
7:00	62°			24.5	71	96	.01	6	200	1449	1		Dilution was open			
7:15	63			26.0	75	86	.01	6	780	1449				13'		
0730	65			25.5	82	88	.01	6	350	1447						
8:00	65°			24.1	105°	85°	.01	6	270	1449				↓		
8:30	65°			23.0	120°	105°	.01	6	370	1450				15'	Nearly Dead Heading	
8:40	-			22.5	-	-	.01	6	170	1449				15'	8-10 min later	
8:45	-			22.0	130°	110°	.01	6	500	1448				10'		
9:00	66°			21.6	137°	132°	.01	6	260	1448				10'	Venting at well head	
9:10	66°			20.5	145°	135°	.01	6	150	1449				10'	NO Venting	
9:20	66°			20.6	148°	146°	.01	6	520	1451				7'	Venting	
9:30	66°			20.6	153°	156°	.01	6	270	1448				7'	Venting	
10:00	66°			20.4	160°	158°	.01	6	270	1448				7'		
10:15	66°			25.0	86°	132	.01	6	380	1448				13'	(cooled down so it +20)	
10:30	67°			24.5	100°	122	.01	6	520	1448						
11:00	67°			23.3	117°	115°	.01	6	400	1445						
11:30	67			21.5	140	130	.01	6	390	1454						
12:00	65			20.5	150	151	.01	6	380	1444						
12:30	65			23.0	118	119	.01	6	500	1446						
13:00	65			22.0	135	133	.01	6	450	1447						
13:30	68°			24.3	100	136	.01	6	480	1457						

NOTES: Trying to find optimum (Flow + PPM) 7:00 AM to 10 AM (RG Stinger Depth).
 TAKING on open 350 gals and we expect this job to be 12hrs. Recalled
 Tool Starts -> Tool in and tool out after 4 hrs.

Client: Barcoo \ hullips
Site: 760 3155
Date: 7/10/05



MTS FIELD DATA

Customer-Focused Solutions

MTS Unit #: 0934

Laptop Unit #:

Sheet: ✓ 1
Z 013804

42 013804

UA03

26 Lee

CUMULATIVE WELLS

TOTALIZER START (gallons)

100

TOTALIZER END (gallons)

Time:

STACK HC CONCENTRATION (PPM)

Time:

VACUUM SIDE DATA

NOTES: 17:30 Bacter tank full Took Effluent sample and first test on!

TRC/Alton Geoscience-Concord

April 21, 2005

1590 Solano Way
Concord, CA 94520

Attn.: Amy Wilson
Project: Conoco Phillips #3135
Site: 845 66th Ave., Oakland

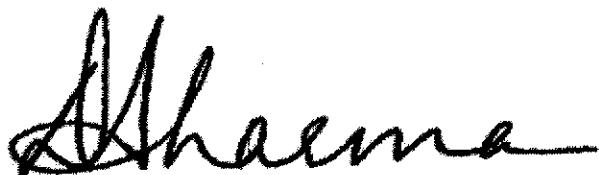
Attached is our report for your samples received on 04/11/2005 10:25
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
05/26/2005 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: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INFLUENT VAPOR MW-6	04/10/2005 07:15	Air	1
INFLUENT VAPOR MW-6	04/10/2005 11:30	Air	2
EFFLUENT VAPOR MW-6	04/10/2005 17:30	Air	3
INFLUENT VAPOR MW-6	04/10/2005 17:30	Air	4

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INFLUENT VAPOR MW-6	Lab ID:	2005-04-0262 - 1
Sampled:	04/10/2005 07:15	Extracted:	4/12/2005 19:16 4/12/2005 20:16
Matrix:	Air	QC Batch#:	2005/04/12-2A.64 2005/04/12-2A.66

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	310	28	ppmv	2.00	04/12/2005 20:16	
Benzene	ND	0.62	ppmv	2.00	04/12/2005 19:16	
Toluene	1.8	0.52	ppmv	2.00	04/12/2005 19:16	
Ethylbenzene	1.7	0.46	ppmv	2.00	04/12/2005 19:16	
Total xylenes	5.3	0.46	ppmv	2.00	04/12/2005 19:16	
Methyl tert-butyl ether (MTBE)	ND	0.28	ppmv	2.00	04/12/2005 19:16	
Ethanol	ND	50	ppmv	2.00	04/12/2005 19:16	
Surrogate(s)						
1,2-Dichloroethane-d4	92.4	72-128	%	2.00	04/12/2005 20:16	
1,2-Dichloroethane-d4	104.7	72-128	%	2.00	04/12/2005 19:16	
Toluene-d8	97.6	80-113	%	2.00	04/12/2005 20:16	
Toluene-d8	91.8	80-113	%	2.00	04/12/2005 19:16	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	INFLUENT VAPOR MW-6	Lab ID:	2005-04-0262 - 2
Sampled:	04/10/2005 11:30	Extracted:	4/12/2005 19:38 4/13/2005 03:51
Matrix:	Air	QC Batch#:	2005/04/12-2A.64 2005/04/12-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	160	14	ppmv	1.00	04/13/2005 03:51	
Benzene	0.87	0.31	ppmv	1.00	04/12/2005 19:38	
Toluene	1.8	0.26	ppmv	1.00	04/12/2005 19:38	
Ethylbenzene	2.3	0.23	ppmv	1.00	04/12/2005 19:38	
Total xylenes	8.6	0.23	ppmv	1.00	04/12/2005 19:38	
Methyl tert-butyl ether (MTBE)	0.88	0.14	ppmv	1.00	04/12/2005 19:38	
Ethanol	ND	25	ppmv	1.00	04/12/2005 19:38	
Surrogate(s)						
1,2-Dichloroethane-d4	105.6	72-128	%	1.00	04/12/2005 19:38	
1,2-Dichloroethane-d4	101.6	72-128	%	1.00	04/13/2005 03:51	
Toluene-d8	89.3	80-113	%	1.00	04/12/2005 19:38	
Toluene-d8	95.5	80-113	%	1.00	04/13/2005 03:51	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	EFFLUENT VAPOR MW-6	Lab ID:	2005-04-0262 - 3
Sampled:	04/10/2005 17:30	Extracted:	4/12/2005 19:59 4/13/2005 04:17
Matrix:	Air	QC Batch#:	2005/04/12-2A.64 2005/04/12-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	20	14	ppmv	1.00	04/13/2005 04:17	
Benzene	ND	0.31	ppmv	1.00	04/12/2005 19:59	
Toluene	0.57	0.26	ppmv	1.00	04/12/2005 19:59	
Ethylbenzene	0.43	0.23	ppmv	1.00	04/12/2005 19:59	
Total xylenes	1.8	0.23	ppmv	1.00	04/12/2005 19:59	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	04/12/2005 19:59	
Ethanol	ND	25	ppmv	1.00	04/12/2005 19:59	
Surrogate(s)						
1,2-Dichloroethane-d4	103.5	72-128	%	1.00	04/12/2005 19:59	
1,2-Dichloroethane-d4	97.3	72-128	%	1.00	04/13/2005 04:17	
Toluene-d8	92.5	80-113	%	1.00	04/12/2005 19:59	
Toluene-d8	97.6	80-113	%	1.00	04/13/2005 04:17	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: INFLUENT VAPOR MW-6

Lab ID: 2005-04-0262 - 4

Sampled: 04/10/2005 17:30

Extracted: 4/12/2005 20:21

4/13/2005 11:05

Matrix: Air

QC Batch#: 2005/04/12-2A-64

2005/04/13-1A 66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	160	0.31	ppmv	1.00	04/13/2005 11:05	
Benzene	0.53	0.31	ppmv	1.00	04/12/2005 20:21	
Toluene	0.89	0.26	ppmv	1.00	04/12/2005 20:21	
Ethylbenzene	1.2	0.23	ppmv	1.00	04/12/2005 20:21	
Total xylenes	4.1	0.23	ppmv	1.00	04/12/2005 20:21	
Methyl tert-butyl ether (MTBE)	0.18	0.14	ppmv	1.00	04/12/2005 20:21	
Ethanol	ND	25	ppmv	1.00	04/12/2005 20:21	
Surrogate(s)						
1,2-Dichloroethane-d4	104.1	72-128	%	1.00	04/12/2005 20:21	
1,2-Dichloroethane-d4	95.2	72-128	%	1.00	04/13/2005 11:05	
Toluene-d8	91.7	80-113	%	1.00	04/12/2005 20:21	
Toluene-d8	95.5	80-113	%	1.00	04/13/2005 11:05	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Water****QC Batch # 2005/04/12-2A.64**

MB: 2005/04/12-2A.64-049

Date Extracted: 04/12/2005 18:49

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/12/2005 18:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/12/2005 18:49	
Benzene	ND	0.5	ug/L	04/12/2005 18:49	
Toluene	ND	0.5	ug/L	04/12/2005 18:49	
Ethylbenzene	ND	0.5	ug/L	04/12/2005 18:49	
Total xylenes	ND	1.0	ug/L	04/12/2005 18:49	
Ethanol	ND	50	ug/L	04/12/2005 18:49	
Surrogates(s)					
1,2-Dichloroethane-d4	105.2	73-130	%	04/12/2005 18:49	
Toluene-d8	96.2	81-114	%	04/12/2005 18:49	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Water****QC Batch # 2005/04/12-2A.66**

MB: 2005/04/12-2A.66-015

Date Extracted: 04/12/2005 19:15

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/12/2005 19:15	
Benzene	ND	0.5	ug/L	04/12/2005 19:15	
Toluene	ND	0.5	ug/L	04/12/2005 19:15	
Ethylbenzene	ND	0.5	ug/L	04/12/2005 19:15	
Total xylenes	ND	1.0	ug/L	04/12/2005 19:15	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/12/2005 19:15	
Ethanol	ND	50	ug/L	04/12/2005 19:15	
Surrogates(s)					
1,2-Dichloroethane-d4	95.6	73-130	%	04/12/2005 19:15	
Toluene-d8	102.0	81-114	%	04/12/2005 19:15	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Water****QC Batch # 2005/04/13-1A.66**

MB: 2005/04/13-1A.66-049

Date Extracted: 04/13/2005 08:49

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/13/2005 08:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/13/2005 08:49	
Benzene	ND	0.5	ug/L	04/13/2005 08:49	
Toluene	ND	0.5	ug/L	04/13/2005 08:49	
Ethylbenzene	ND	0.5	ug/L	04/13/2005 08:49	
Total xylenes	ND	1.0	ug/L	04/13/2005 08:49	
Ethanol	ND	50	ug/L	04/13/2005 08:49	
Surrogates(s)					
1,2-Dichloroethane-d4	99.0	73-130	%	04/13/2005 08:49	
Toluene-d8	102.8	81-114	%	04/13/2005 08:49	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/04/12-2A.64**

LCS 2005/04/12-2A.64-005

Extracted: 04/12/2005

Analyzed: 04/12/2005 18:05

LCSD 2005/04/12-2A.64-027

Extracted: 04/12/2005

Analyzed: 04/12/2005 18:27

Compound	Conc.	ug/L	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %	Flags		
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.5	29.2	25	106.0	116.8	9.7	65-165	20		
Benzene	26.4	27.0	25	105.6	108.0	2.2	69-129	20		
Toluene	26.0	27.2	25	104.0	108.8	4.5	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	512	541	500	102.4	108.2		73-130			
Toluene-d8	471	500	500	94.2	100.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/04/12-2A.66**

LCS 2005/04/12-2A.66-050

Extracted: 04/12/2005

Analyzed: 04/12/2005 18:50

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.6		25	102.4			65-165	20		
Benzene	23.3		25	93.2			69-129	20		
Toluene	27.7		25	110.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	454		500	90.8			73-130			
Toluene-d8	499		500	99.8			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/04/13-1A.66**LCS 2005/04/13-1A.66-023
LCSD

Extracted: 04/13/2005

Analyzed: 04/13/2005 08:23

Compound	Conc.	ug/L	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.2		25	104.8			65-165	20		
Benzene	22.2		25	88.8			69-129	20		
Toluene	27.1		25	108.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	447		500	89.4			73-130			
Toluene-d8	505		500	101.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/12-2A.64

MS/MSD

Lab ID: 2005-04-0164 - 001

MS: 2005/04/12-2A.64-004

Extracted: 04/12/2005

Analyzed: 04/12/2005 21:04

MSD: 2005/04/12-2A.64-026

Extracted: 04/12/2005

Dilution: 1.00

Analyzed: 04/12/2005 21:26

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	23.2	24.1	ND	25	92.8	96.4	3.8	65-165	20		
Benzene	22.2	24.6	ND	25	88.8	98.4	10.3	69-129	20		
Toluene	20.8	22.8	ND	25	83.2	91.2	9.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	526	514		500	105.1	102.7		73-130			
Toluene-d8	446	455		500	89.3	91.1		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)**Water****QC Batch # 2005/04/12-2A.66****MS/MSD**

Lab ID: 2005-04-0285 - 001

MS: 2005/04/12-2A.66-041

Extracted: 04/12/2005

Analyzed: 04/12/2005 20:41

MSD: 2005/04/12-2A.66-006

Extracted: 04/12/2005

Analyzed: 04/12/2005 21:06

Dilution: 1.00

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	24.9	25.1	ND	25	99.6	100.4	0.8	65-165	20		
Benzene	22.7	23.1	ND	25	90.8	92.4	1.7	69-129	20		
Toluene	27.2	27.5	ND	25	108.8	110.0	1.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	447	457		500	89.4	91.4		73-130			
Toluene-d8	507	508		500	101.4	101.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/04/13-1A.66

MS/MSD

Lab ID: 2005-04-0055 - 016

MS: 2005/04/13-1A.66-015

Extracted: 04/13/2005

Analyzed: 04/13/2005 10:15

MSD: 2005/04/13-1A.66-040

Extracted: 04/13/2005

Dilution: 1.00

Analyzed: 04/13/2005 10:40

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	25.5	24.7	ND	25	102.0	98.8	3.2	65-165	20		
Benzene	22.2	21.4	ND	25	88.8	85.6	3.7	69-129	20		
Toluene	27.6	26.0	ND	25	110.4	104.0	6.0	70-130	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	447	449		500	89.5	89.8		73-130			
Toluene-d8	495	504		500	99.0	100.8		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Amy Wilson

1590 Solano Way
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: Conoco Phillips #3135

Received: 04/11/2005 10:25

Site: 845 66th Ave., Oakland

Legend and Notes

Analysis Flag

L2

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

Chain of Custody Record

SEVERN
TRENT

STL

Severn Trent Laboratories, Inc.

STL-4325 039011

2005-04-0262

114-050

Client Address		Project Manager		Date	Chain of Custody Number												
CONOCO PHILLIPS 6535 SAN LEANDRO		ROGER BARTA Telephone Number (Area Code) / Fax Number 925-688-2466		4/10/05	164398												
City CITY	State STATE	Zip Code ZIP CODE	Site Contact Name / Phone Number	Lab Contact Name / Phone Number	Lab Number Lab Number												
Project Name and Location (Share) 76-STATION - 3135		Analysis (Attach list if more space is needed)		Page 1 of 1													
Contract/Purchase Order/Quote No.				Special Instructions/ Conditions of Receipt													
Sample ID No. and Description (Containers for which samples may be combined are listed)	Date	Time	Matrix	Containers & Preservatives													
			Water	Aerosol	Oil	APC	Drum	Can	Bag	Ice	Soil	Groundwater	Filter	Port	Residue	Antifreeze	Coolant
INFILUENT VAPOR MW-6	4/10/05	0715	X											X	X	X	X
EFFLUENT VAPOR MW-6	4/10/05	1730	A											X	X	X	X
EFFLUENT VAPOR MW-6	4/10/05	1730	X											X	X	X	X
INFILUENT VAPOR MW-6	4/10/05	1730	X											X	X	X	X
Possible Hazard Identification			Sample Disposal		A fee may be assessed if samples are retained longer than 1 month												
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison S	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months									
Turn Around Time Required			CC Requirements (Specify)														
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input type="checkbox"/> Other	NORMAL											
1. Relinquished By <i>Joe Dukay</i>			Date 4/11/05	Time 1025	1. Received By <i>John M. O'Conor</i>										Date 4/11/05	Time 1025	
2. Relinquished By			Date	Time	2. Received By										Date	Time	
3. Relinquished By			Date	Time	3. Received By										Date	Time	

Digitized by srujanika@gmail.com

TRC/Alton Geoscience-Concord

May 16, 2005

1590 Solano Way, Suite A
Concord, CA 94520

Attn.: Roger Batra

Project#: 42013808

Project: Conoco Phillips # 3135

Site: 845 66th Avenue, Oakland

Attached is our report for your samples received on 05/10/2005 17:10
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
06/24/2005 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: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42013808

Received: 05/10/2005 17:10

Conoco Phillips # 3135

Site: 845 66th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-6	05/09/2005 14:12	Water	1

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord
Attn.: Roger Batra

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42013808
Conoco Phillips # 3135

Received: 05/10/2005 17:10

Site: 845 66th Avenue, Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-6

Lab ID: 2005-05-0294 - 1

Sampled: 05/09/2005 14:12

Extracted: 5/14/2005 01:57

Matrix: Water

QC Batch#: 2005/05/13-2A.62

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	5400	250	ug/L	5.00	05/14/2005 01:57	
Benzene	26	2.5	ug/L	5.00	05/14/2005 01:57	
Toluene	12	2.5	ug/L	5.00	05/14/2005 01:57	
Ethylbenzene	480	2.5	ug/L	5.00	05/14/2005 01:57	
Total xylenes	1900	5.0	ug/L	5.00	05/14/2005 01:57	
Methyl tert-butyl ether (MTBE)	35	2.5	ug/L	5.00	05/14/2005 01:57	
Ethanol	ND	250	ug/L	5.00	05/14/2005 01:57	
Surrogate(s)						
1,2-Dichloroethane-d4	104.1	73-130	%	5.00	05/14/2005 01:57	
Toluene-d8	95.8	81-114	%	5.00	05/14/2005 01:57	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42013808
Conoco Phillips # 3135

Received: 05/10/2005 17:10

Site: 845 66th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**QC Batch # 2005/05/13-2A.62**

MB: 2005/05/13-2A.62-044

Date Extracted: 05/13/2005 20:44

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	05/13/2005 20:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/13/2005 20:44	
Benzene	ND	0.5	ug/L	05/13/2005 20:44	
Toluene	ND	0.5	ug/L	05/13/2005 20:44	
Ethylbenzene	ND	0.5	ug/L	05/13/2005 20:44	
Total xylenes	ND	1.0	ug/L	05/13/2005 20:44	
Ethanol	ND	50	ug/L	05/13/2005 20:44	
Surrogates(s)					
1,2-Dichloroethane-d4	104.8	73-130	%	05/13/2005 20:44	
Toluene-d8	94.0	81-114	%	05/13/2005 20:44	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42013808
Conoco Phillips # 3135

Received: 05/10/2005 17:10

Site: 845 66th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Water****QC Batch # 2005/05/13-2A.62**

LCS 2005/05/13-2A.62-018

Extracted: 05/13/2005

Analyzed: 05/13/2005 20:18

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.5		25	106.0		65-165	20			
Benzene	22.9		25	91.6		69-129	20			
Toluene	21.9		25	87.6		70-130	20			
Surrogates(s)										
1,2-Dichloroethane-d4	511		500	102.2		73-130				
Toluene-d8	484		500	96.8		81-114				

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42013808
Conoco Phillips # 3135

Received: 05/10/2005 17:10

Site: 845 66th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)**Water****QC Batch # 2005/05/13-2A.62**

MS/MSD

Lab ID: 2005-05-0072 - 001

MS: 2005/05/13-2A.62-006

Extracted: 05/13/2005

Analyzed: 05/13/2005 22:06

MSD: 2005/05/13-2A.62-032

Extracted: 05/13/2005

Dilution: 1.00

Analyzed: 05/13/2005 22:32

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	50.5	55.5	24.7	25	103.2	123.2	17.7	65-165	20		
Benzene	25.3	27.3	ND	25	101.2	109.2	7.6	69-129	20		
Toluene	23.6	24.5	ND	25	94.4	98.0	3.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	484	525		500	96.8	105.0		73-130			
Toluene-d8	470	495		500	94.0	99.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Roger Batra

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42013808
Conoco Phillips # 3135

Received: 05/10/2005 17:10

Site: 845 66th Avenue, Oakland

Legend and Notes

Analysis Flag

L2

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

05/15/2005 13:32

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

114964

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-16

ConocoPhillips Chain Of Custody Record

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
February 14, 2005
76 Station 3135

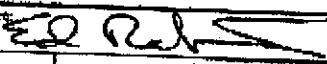
Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G	TPPH 8260B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1														
02/14/05	4.96	6.53	0.00	-1.57	1.07	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	26	
MW-2														
02/14/05	3.56	5.39	0.00	-1.83	0.47	--	290	ND<0.50	ND<0.50	1.8	1.9	--	5.7	
MW-3														
02/14/05	3.12	4.98	0.00	-1.86	0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
MW-4														
02/14/05	5.01	5.33	0.00	-0.32	2.35	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5														
02/14/05	4.31	5.83	0.00	-1.52	1.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
MW-6														
02/14/05	4.05	5.75	0.00	-1.70	1.01	--	6600	44	8.5	640	750	--	160	
MW-7														
02/14/05	4.45	6.19	0.00	-1.74	0.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-8														
02/14/05	4.43	6.09	0.00	-1.66	1.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-9														
02/14/05	4.60	5.92	0.00	-1.32	1.21	--	ND<50	ND<0.50	ND<0.50	0.72	1.0	--	ND<0.50	
MW-10														
02/14/05	2.69	4.81	0.00	-2.12	0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
MW-11														
02/14/05	2.63	5.12	0.00	-2.49	0.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

WATER QUALITY & COMPLIANCE		Remediation Wastewater from Petroleum Product Facilities	
Responsible Dept: ESD	Orig. Issue: 12/1/94	Latest Revision: 12/17/03	Page: 1

Form R-149: Authorization for Receipt of Remediation Wastewater @ ConocoPhillips San Francisco Refinery at Rodeo

WASTEWATER TREATMENT PLANT (UNIT 100) OPERATORS:

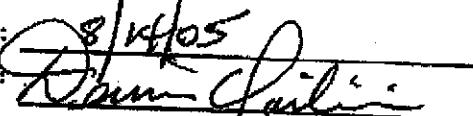
This form below, if approved, serves as an acceptance document to process the wastewater at the San Francisco Refinery Wastewater Treatment Plant, Unit 100. The Requester is required to supply all of the necessary analytical and completely fill out the following table:

Requester's Name/Signature:	Ed Ralston	Signature: 
Company:	ConocoPhillips	Date of Request: 5/12/2005
Address:	76 Broadway, Sacramento, CA. 95818	
Telephone/Fax:	916-558-7633	FAX: 916-558-7639
Station No. and Location:	COP #253135, 845 66 th Avenue, Oakland, CA	
Description of Water Source:	Purge Water - DPE test	
Total Volume of Water/Solids Expected:	Water: 5,000 gallons	Solids: minimal
Expected per-Delivery Volume/Frequency:	Volume: 5,000 gallons	Frequency: One time discharge
Pesticides/Fish Toxicity Expected:	Pesticide: Yes <input checked="" type="radio"/> No <input type="radio"/>	Fish Tox: Yes <input checked="" type="radio"/> No <input type="radio"/>
Maximum Rate of Disposal (ESD)	5000	Gallons per Week

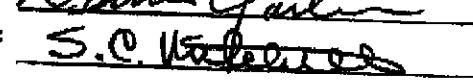
The remediation wastewater described above has been reviewed for Federal and California Hazardous Waste characteristics.

This water is (circle one): recommended / not recommended for processing at the WWTP.

This form is valid until:

ESD Signature: 

Date Recommended: 5/16/05

Operations Signature: 

Date Approved: 5/17/05

TRUCK DRIVERS: Please provide a copy of this R-149 form upon delivery of wastewater to Unit 100.
Driver's info:

Truck No. _____	pH at site _____
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UNIT 100 OPERATORS: Please fill out the portion below and forward this completed form to ESD in Room 111 of the Administration Building.

Date and time of delivery:

Delivered on: ____ / ____ / ____	@ ____ AM / PM
gallons or ____ bbl.	pH _____

NO FREE PRODUCT ACCEPTED

GRAVITY OFF-LOAD ONLY

Any questions? Call: (510) 245-4403, (510) 245-4465 or FAX (510) 245-4476.
ONYX/Mark Laliberte: FAX: (707) 745-0510; DIRECT: (707) 748-3722; CELL: (510) 715-6532
TRC: Dennis Jensen, 21 Technology Drive, Irvine, CA 92618; (949) 753-0101 (office); (949) 753-0111 (fax); djensen@tresolutions.com