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ANNUAL MONITORING REPORT

YEAR(S):
2003/2004

ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT

**CONOCOPHILLIPS
EAST HOBBS JUNCTION (AP-15)
HOBBS, LEA COUNTY, NEW MEXICO**

RECEIVED

APR 01 2004

**Oil Conservation Division
Environmental Bureau**

Prepared for:



Prepared By:

MAXIM Technologies Inc®
1703 W. Industrial Avenue
Midland, Texas 79701

March 30, 2004

March 30, 2004

Mr. Bill Olsen
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87504

**RE: ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT
ConocoPhillips East Hobbs Junction
Hobbs, Lea County, New Mexico**

INTRODUCTION

On behalf of ConocoPhillips, formerly Phillips Pipe Line Company, Maxim Technologies, Inc. (Maxim) is submitting the following annual status report for the East Hobbs Junction remediation site (Site). The Site is located in Lea County, New Mexico (Sec 8, T19S, R38E; Figure 1), approximately one mile south of the town of Hobbs. This report is a summary of the following activities performed from May 2003 through February 2004:

- Groundwater Monitoring and Sampling
- Free Petroleum Hydrocarbon Gauging, Recovery and Disposal
- Soil Vapor Extraction and Air Sparging Systems Monitoring
- Remediation System Operation and Maintenance

During this time period, no new groundwater monitoring wells, remediation wells or tanks were installed at the Site, and no system, process or facility modifications were performed which would alter the system design parameters. An investigation to determine the nature and extent of petroleum hydrocarbon impacts to soil and groundwater in the vicinity of well MW-15, located on the adjacent D.A. Cochran property, is currently under way, and the results of this investigation will be presented upon completion.

The previous Annual Monitoring Report for East Hobbs Junction, submitted by Higgins and Associates, L.L.C. on May 29, 2003 after an extension to the April 1st report deadline was granted, presented quarterly groundwater monitoring data through April 2003. As a

continuation of the quarterly sampling sequence, this current report presents three quarters of groundwater monitoring data collected in July and October 2003, and January 2004.

BACKGROUND

Project activities commenced at the site in January of 2000 following the discovery of a release of crude oil from a gathering line at the East Hobbs Junction. Assessment and remediation activities have been conducted at the site to define and address the crude oil impacts including the installation of a comprehensive soil and groundwater remediation system. The remediation system installation consisted of a soil vapor extraction (SVE) system, an air sparging system, and expanding the existing crude oil recovery system. Figure 1 illustrates the locations of the existing pipeline corridors, the Site monitoring and remediation wells, and the remediation system buildings and oil storage tank.

Higgins and Associates, L.L.C. of Centennial, Colorado performed the installation of the remediation system, initial startup procedures, system operation and maintenance, and required Site monitoring activities until September 2003. On September 24, 2003, Maxim assumed operation and maintenance of the system, and continued the required Site monitoring activities.

HEALTH AND SAFETY

Maxim required safety and health procedures that were appropriate for the level of environmental hazard known to exist at the Site. Procedures used complied with ConocoPhillips' "Contractors Safety Manual" (revised 2003). Modified Level D Personal Protective Equipment (PPE) was adequate for the Site activities. Personnel were equipped with respirators and organic vapor cartridges in the event of a sudden release of noxious fumes from the Site. Prior to commencement of work, a Site Specific Health and Safety Plan (HASP) was prepared by Maxim. The HASP was reviewed and signed by all personnel working at the Site. Safety procedures were reviewed during tailgate safety meetings conducted prior to the start of work each day.

GROUNDWATER MONITORING AND SAMPLING

Quarterly groundwater monitoring and sampling activities were conducted at the Site on July 14 and 15, 2003, October 15, 17 and 20, 2003, and January 19, 21 and 22, 2004. Accessible

monitoring, recovery and remediation wells were measured for groundwater elevations prior to the sampling events. Additional groundwater elevation measurements were collected on September 11, 2003. Wells containing free petroleum hydrocarbons were not sampled. On July 14, 2003, wells MW-4, MW-5, MW-12 through 14, MW-16 through 23, and SVE-10 were sampled. On October 17 and 20, 2003 and January 21 and 22, 2004, wells MW-4, MW-5, MW-12 through 14, MW-16, MW-18 through 23, and SVE-10 were sampled. It was determined during the latter two sampling events that the groundwater level in MW-17 was too low for sampling. The groundwater samples were collected into appropriate sample containers, placed in a cooler packed with ice, and shipped under chain-of-custody to an approved laboratory for analysis of total petroleum hydrocarbons (TPH), both diesel range organics (DRO) and gasoline range organics (GRO) by Method 8015B modified; benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Method 8021B; and for chloride by Method 300.0A.

Groundwater elevation measurements are summarized in Table 1. Potentiometric surface maps for each of the three sampling events are included as Figures 2a, 2b, and 2c. Groundwater flow direction is variable across the Site, and depending on location, can be to the west, southwest, south, or southeast. The groundwater flow direction was calculated for the southern portion of the Site and shown to be south-southeast at a gradient of 0.0019 feet per foot during the October 2003 and January 2004 events. Groundwater levels show an overall slight decrease at the Site during this time frame, which may reflect regional conditions due to low rainfall amounts in this area.

Groundwater analytical results are presented in Tables 2a, 2b and 2c, and figures depicting the groundwater analytical results for the July and October 2003, and January 2004 sampling events are included as Figures 3a, 3b and 3c, respectively. The laboratory analytical data is included in Appendix A. Analytical results from the groundwater monitoring events show that the lateral extent of the dissolved-phase plume remains defined to the west, south and east. To the north, the dissolved-phase plume is monitored by wells MW-4 and MW-5. These wells reported an initial increase in BTEX constituents after startup of the remediation system due to dispersion and diffusion of the dissolved-phase hydrocarbons. However, the concentrations of hydrocarbon constituents have now begun to show an overall decreasing trend, as indicated by the October 2003 data. The January 2004 data reported concentrations similar to the October 2003 data at MW-5, with slight increases and decreases of various BTEX constituents, while MW-4 was reported as non-detect for all hydrocarbon constituents in January 2004. These

results indicate that the remediation system is having an overall attenuating effect on the dissolved-phase plume.

FREE PETROLEUM HYDROCARBON GAUGING

Free-phase petroleum hydrocarbons were measured in wells MW-2, MW-3, MW-6 through MW-10, and MW-15 on June 25, 2003. On September 11, 2003, November 5, 2003 and January 19, 2004, free-phase petroleum hydrocarbons were measured in wells MW-2, MW-3, MW-6 through MW-11, and MW-15. The pneumatic pumps were removed from the recovery wells prior to measuring hydrocarbon thickness, and then reinstalled. Free-phase petroleum hydrocarbon thickness isopleth maps for June 25, 2003, September 11, 2003, November 5, 2003 and January 19, 2004 are included as Figures 4a, 4b, 4c, and 4d, respectively, and free-phase petroleum hydrocarbon measurements are summarized in Table 1.

FREE PETROLEUM HYDROCARBON RECOVERY

The pneumatic oil recovery system consisting of Durham Geo F.A.P. Plus pumps installed in wells MW-2, MW-3, MW-6, MW-7, MW-9, MW-10, and MW-11 pumps crude oil from the wells through petroleum rated hoses contained in PVC piping to a bermed 140-barrel aboveground storage tank (AST) located adjacent to the oil recovery system compound (Figure 1). The recovered crude oil was initially transported to ConocoPhillips' Gaines Pump Station where it was added to the main crude oil pipeline. However, beginning in August 2003, the volume of groundwater being recovered by the oil recovery pumps increased and required that the recovered groundwater and crude oil be disposed at a licensed waste facility. On September 11, 2003, approximately 15 barrels of crude oil and 85 barrels of recovered groundwater were removed from the oil storage tank, and on February 16, 2004, approximately 10 barrels of crude oil and 120 barrels of recovered groundwater were removed from the oil storage tank. On both occasions, the recovered groundwater and crude oil were transported by Key Energy Services, Inc. to Sundance Services' Eunice, New Mexico facility for disposal. Documentation for the disposal activities is included in Appendix B. From initial abatement activities and ongoing oil removal activities, approximately 365 barrels of crude oil have been recovered through February 2004.

SOIL VAPOR EXTRACTION AND AIR SPARGING SYSTEMS MONITORING

The SVE system has been operational since October 17, 2002. To wait on New Mexico Air Quality Bureau (NMAQB) permit approval, the SVE system was inactive from June 9, 2003 until July 14, 2003. The system was placed back online July 14, 2003 and has been in continuous operation since. On June 26, 2003, the SVE effluent was sampled as part of the NMAQB permit approval criteria. The SVE effluent sample was collected into an appropriate sample container and shipped under chain-of-custody to an approved laboratory for analysis of volatile organic compound (VOC) concentrations in air using Method 8260. A summary of the VOC concentrations detected in the SVE effluent sample is presented in Table 2d and the laboratory analytical data is included in Appendix A. For air quality permit compliance, the on-site SVE system has been periodically monitored for effluent temperature, flow rate and VOC concentrations since startup. A photo-ionization detector (PID) has been used in the field to measure VOCs as organic vapor in air in parts per million (ppm) at the blower exhaust stack. Effluent temperatures flow rates, and PID readings have ranged from 51 to 121 degrees Fahrenheit, from 849 to 875 cubic feet per minute, and from 50 to 907 ppm, respectively. Approximately 28,235 pounds (~14 tons) of VOCs have been removed from the vadose zone by the SVE system since startup on October 17, 2002 to February 25, 2004. The yearly total of VOCs removed by SVE from October 2002 to October 2003 was 11.45 tons. The Site is permitted by the NMAQB for a maximum VOC extraction rate of 15 tons per year. A summary of SVE operations data and effluent measurements is presented in Tables 3a and 3b.

The air sparging system has been operational since October 21, 2002. Injection pressures have ranged from 10 to 15 pounds per square inch, measured at the air sparge manifold. Sparge wells outside the area of the free-phase plume (SP-15 through SP-19) have been continuously operated, while the remaining sparge wells located within and immediately adjacent the free-phase plume (SP-1 through SP-14) have remained offline. The inactive air sparge wells will be incrementally placed online once it is evident that the free-phase plume has attenuated and new plume boundaries are determined. A summary of monitoring wellhead pressure measurements is presented in Table 3b.

SYSTEM OPERATION AND MAINTENANCE

The remediation system equipment operation and maintenance schedule was performed according to manufacture recommendations and included oil and oil filter changes, air filter

replacement, motor bearing lubrication and air/oil separator maintenance on the Sullivan/Palatek 20D air compressor; lubrication of the bearings and oil changes on the Roots SVE blower; replacement of fuses and indicator bulbs on the system control panel as needed; monitoring and replacement/repair of gauges, fittings, air regulators and hoses on the pneumatic pumps and wellhead assemblies; and routine monitoring of all system fittings, hoses, sight glasses, gauges, valves, seals, lines, bearings, control switches and solenoids. The operation and maintenance schedule also included recording the system gauge and timer readings into a table for monitoring of system functions over time.

The failure of various components on the air compressor caused intermittent shutdown of the oil recovery and air sparging systems from October to December 2003. However, all faulty compressor components were repaired or replaced and the air compressor has been in continuous operation since December 2, 2003.

CONCLUSIONS

Based on the data presented in this report, the following conclusions can be determined:

- Groundwater sampling results are consistent with previous data and no significant changes in the crude oil impacts to groundwater are evident except along the northern boundary of the Site. In this area, wells MW-4 and MW-5 have shown a decrease in sample concentrations from previous sampling data with MW-4 reporting non-detect for hydrocarbon constituents during the most recent sampling event.
- The SVE and air sparging systems are operating according to design parameters.
- The crude oil recovery system has operated consistently at the Site except for October to December 2003 when intermittent shutdown of the air compressor occurred due to component failure. From initial abatement activities through February 2004, approximately 365 barrels of crude oil have been recovered.
- Maxim is currently assessing the existing performance monitoring data and will determine what adjustments, if any, are necessary to optimize the performance of the remediation system including reducing the amount of groundwater being recovered by the oil recovery pumps.
- An investigation to determine the nature and extent of petroleum hydrocarbon impacts to soil and groundwater in the vicinity of well MW-15, located on the adjacent D.A.

Cochran property, is currently under way, and the results of this investigation will be presented upon completion.

Should you have any questions or comments upon review of this report, please contact Greg W. Pope at (432) 686-8081.

Sincerely,

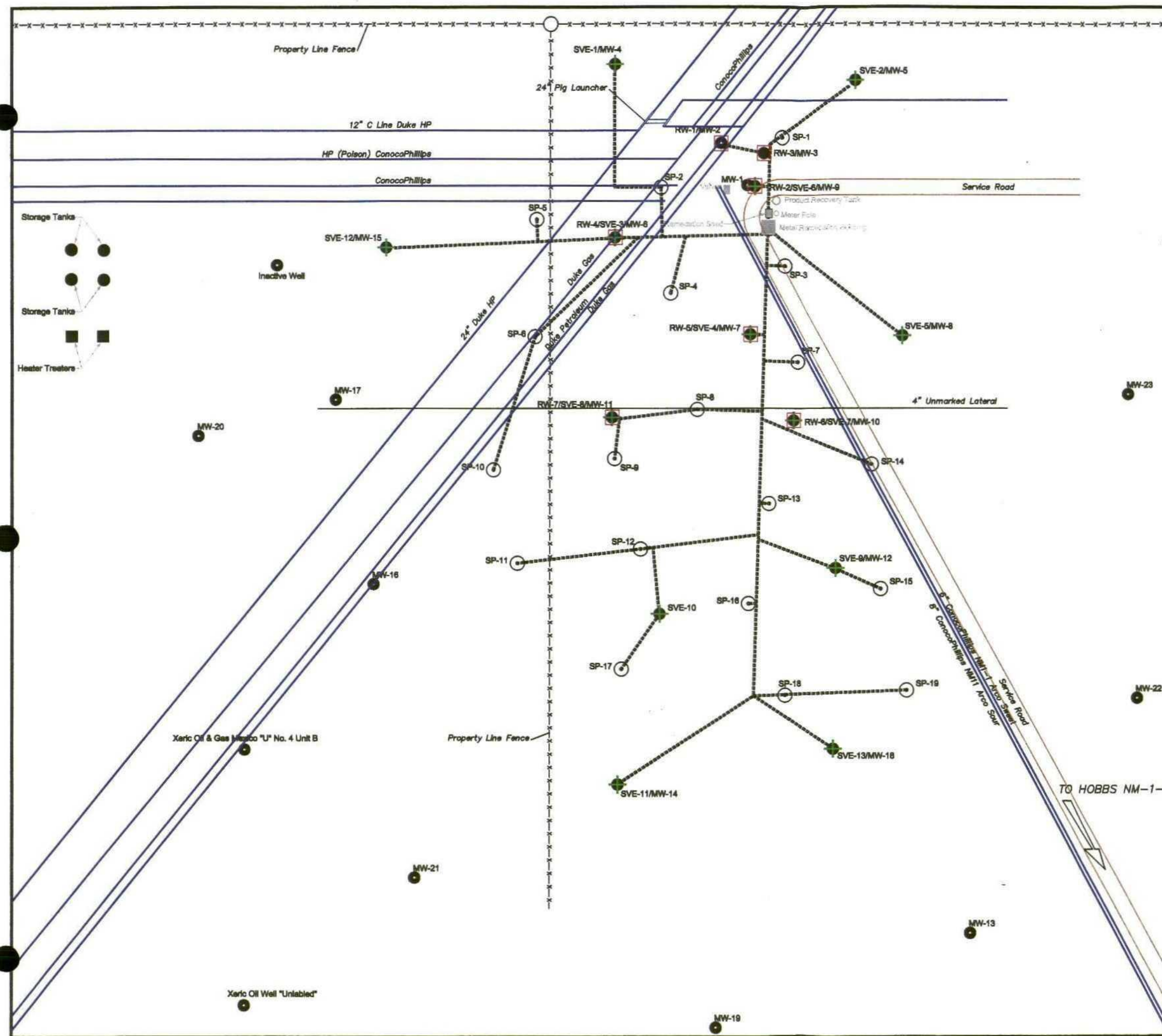
MAXIM TECHNOLOGIES, INC.

A handwritten signature in black ink, appearing to read 'G. W. Pope', written in a cursive style.

Greg W. Pope
Hydrogeologist

FIGURES

Figure 1	Site Map
Figure 2a	Groundwater Contour Map (07/14/03)
Figure 2b	Groundwater Contour Map – October/November 2003
Figure 2c	Groundwater Contour Map – January 2004
Figure 3a	Hydrocarbon Concentration Map (07/14/03)
Figure 3b	Summary of Groundwater Analytical Results – October 2003
Figure 3c	Summary of Groundwater Analytical Results – January 2004
Figure 4a	Apparent Liquid Phase Hydrocarbon (LPH) Thickness Map (06/25/03)
Figure 4b	Apparent Liquid Phase Hydrocarbon (LPH) Thickness Map (09/11/03)
Figure 4c	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – November 2003
Figure 4d	Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – January 2004



LEGEND

- MW-1 ● Existing Monitor Well Location and Designation
- SVE-1 ● Soil Vapor Extraction Location and Designation
- SP-2 ○ Sparge Well Location and Designation
- RW-1 □ Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor
- Note: Site is restricted to public access.

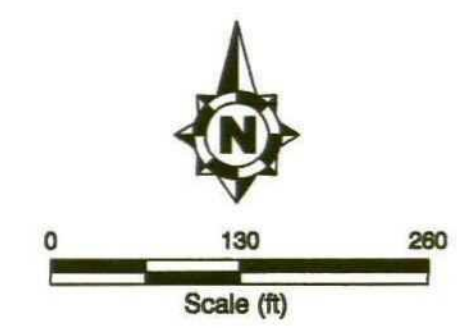
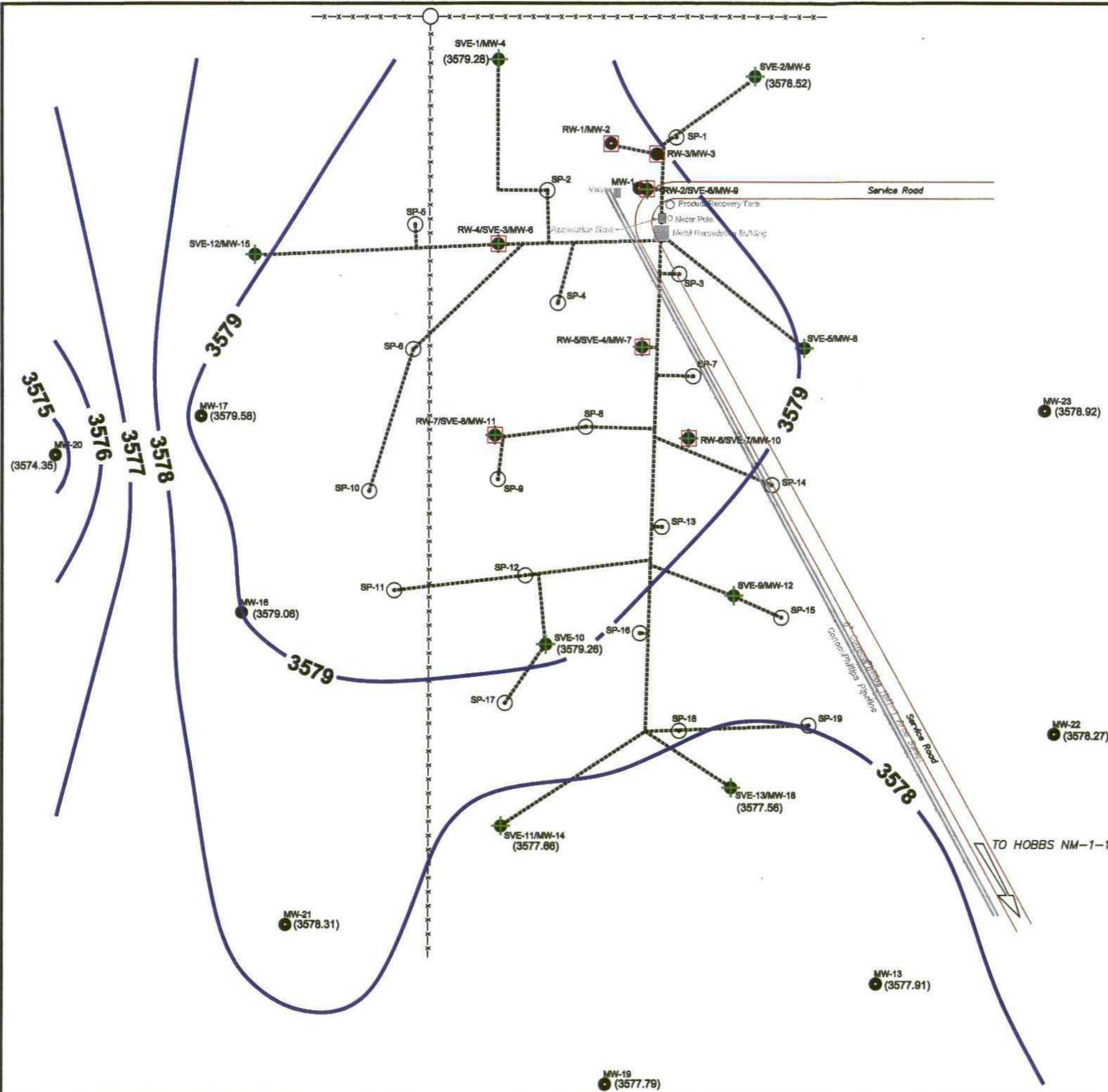


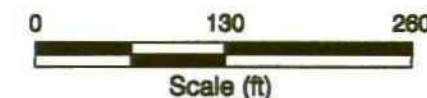
FIGURE 1 : SITE MAP

EAST HOBBS JUNCTION	DATA COLLECTED : JAN. 19, 2004
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 8 T19S R38E	PROJECT NO : 4640003 MODIFIED BY : GWP DATE MODIFIED : 03/09/2004 ACAD File : EHJ.Fig1SiteMap.dwg

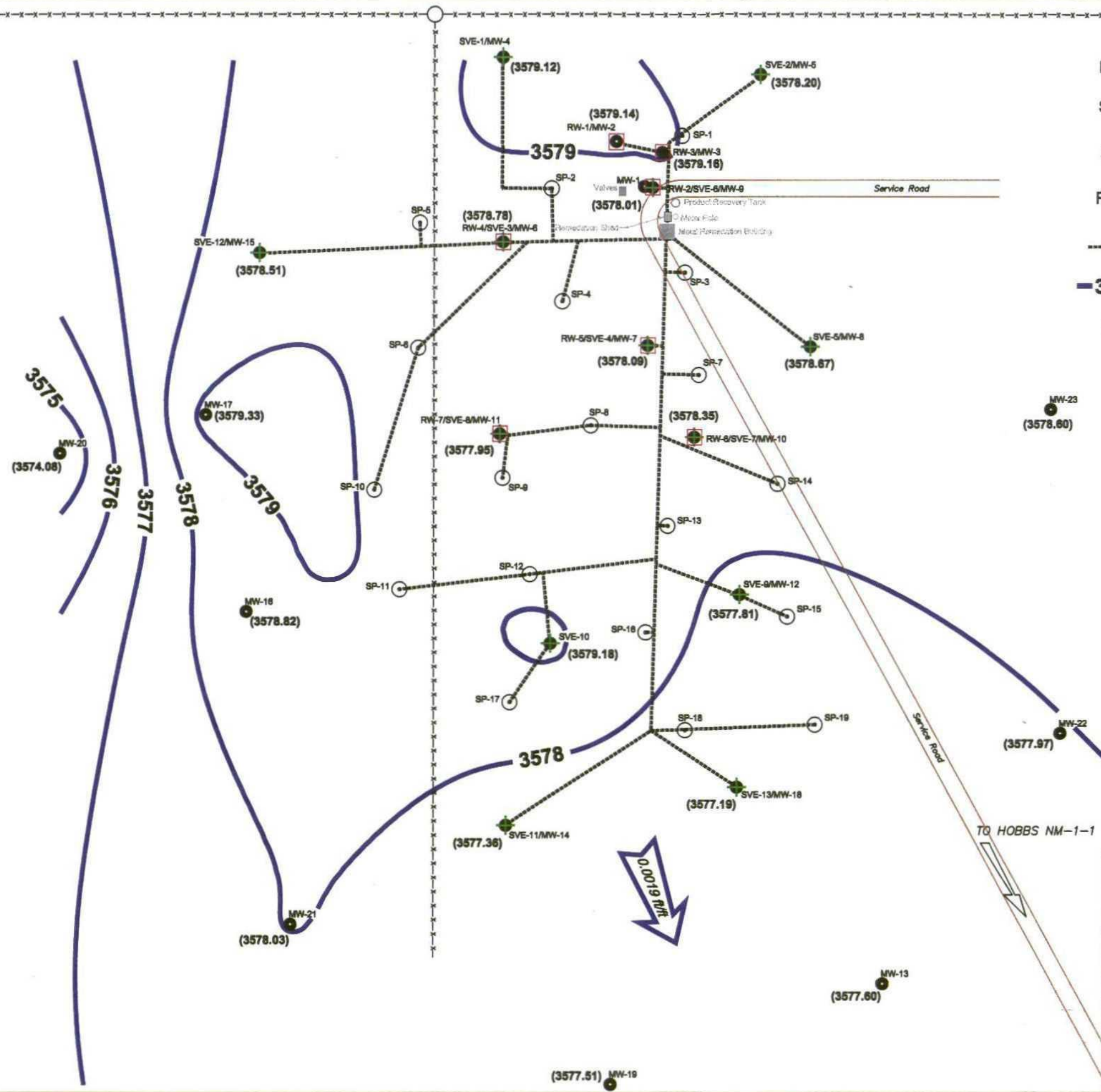


LEGEND

- MW-1 ● Existing Monitor Well Location and Designation
- SVE-1 ● Soil Vapor Extraction Location and Designation
- SP-2 ○ Sparge Well Location and Designation
- RW-1 □ Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor
- 3579- Groundwater Elevation Contour
- (3579.26) Groundwater Elevation (feet above sea level)



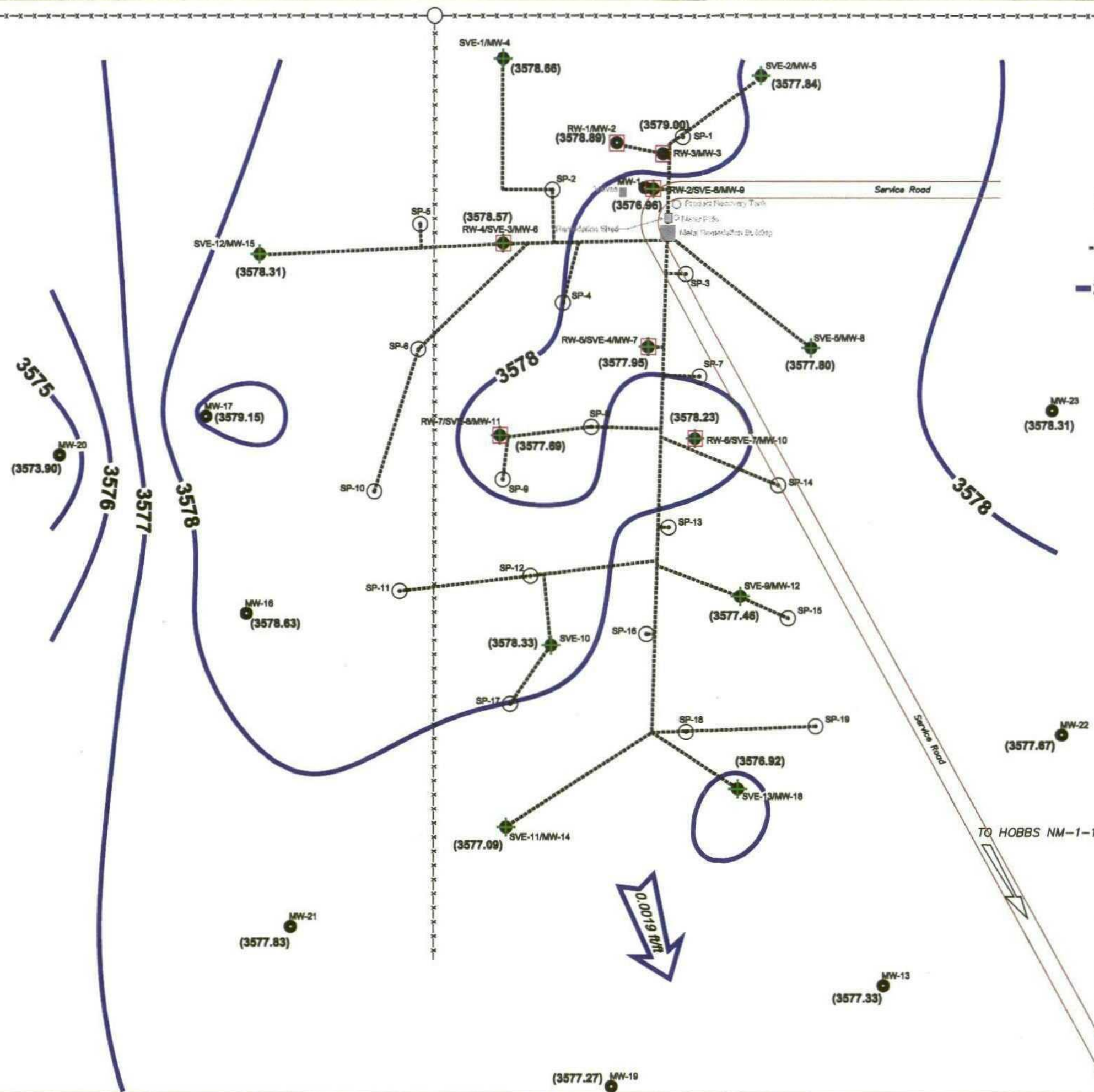
Project No.: 571-17	Date Map Generated: 10/06/03	Date Data Collected: 07/14/03	Figure No.: 2a
Author: CH	Title: GROUNDWATER CONTOUR MAP		
Checked: NF			
Detailed: EC	Client: ConocoPhillips		Location: East Hobbs Junction New Mexico
	ACAD File: 571-17 GW DATA.dwg; tab: 002 07-14-03		



- LEGEND**
- MW-1 ● Existing Monitor Well Location and Designation
 - SVE-1 ● Soil Vapor Extraction Location and Designation
 - SP-2 ○ Sparge Well Location and Designation
 - RW-1 □ Product Recovery Well Location and Designation
 - Alignment of Conveyance Piping Corridor
 - 3579 — Groundwater Elevation Contour
 - (3578.67) Groundwater Elevation (feet above mean sea level)
 - ft/ft = feet per foot

FIGURE 2b : GROUNDWATER CONTOUR MAP
OCTOBER/NOVEMBER 2003

ConocoPhillips	MAXIM TECHNOLOGIES INC.
EAST HOBBS JUNCTION	DATA COLLECTED : OCT. 15, 2003 NOV. 05, 2003
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 8 T19S R38E	PROJECT NO : 4840003 MODIFIED BY : GWP DATE MODIFIED : 03/05/2004 ACAD File : EHL.GW Contour.Oct03.dwg



LEGEND

- MW-1 ● Existing Monitor Well Location and Designation
- SVE-1 ● Soil Vapor Extraction Location and Designation
- SP-2 ○ Sparge Well Location and Designation
- RW-1 □ Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor
- 3578** Groundwater Elevation Contour
- (3578.31) Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

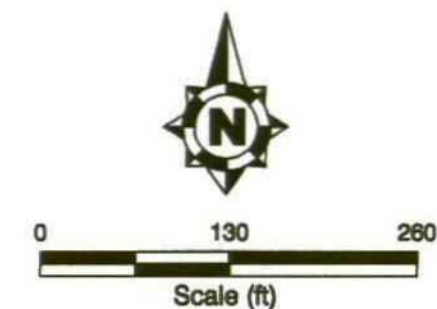


FIGURE 2c : GROUNDWATER CONTOUR MAP
JANUARY 2004

ConocoPhillips	MAXIM TECHNOLOGIES INC.
EAST HOBBS JUNCTION	DATA COLLECTED : JAN. 19, 2004
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 8 T19S R38E	PROJECT NO : 4640003 MODIFIED BY : GWP DATE MODIFIED : 03/05/2004 ACAD File : EHJ.GW Contour.Jan04.dwg

LEGEND

- MW-1  Existing Monitor Well Location and Designation
- SVE-1  Soil Vapor Extraction Location and Designation
- SP-2  Sparge Well Location and Designation
- RW-1  Product Recovery Well Location and Designation
-  Alignment of Conveyance Piping Corridor

CHEMICAL DATA

(all results are reported in µg/L)

B = Benzene

T = Toluene

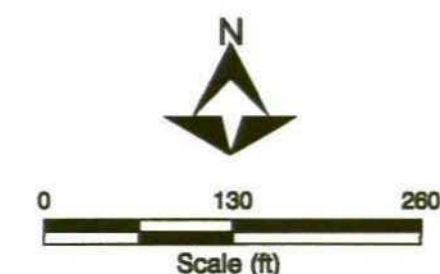
E = Ethylbenzene

X = Xylene

TVPH = Total Volatile Petroleum Hydrocarbons

TEPH = Total Extractable Petroleum Hydrocarbons

ND = Not Detected



Project No.: 571-17	Date Map Generated: 10/06/03	Date Data Collected: 07/14/03	Figure No.: 3a
Author: CH	Title: HYDROCARBON CONCENTRATION MAP		
Checked: NF			
Detailed: EC	Client: ConocoPhillips	Location: East Hobbs Junction New Mexico	
	ACAD File: 571-17 GW RESULTS.dwg; tab: 002 07-14-03		

MW-20	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	100

MW-17	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	126

MW-16	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	276

SVE-10	07-14-03
B	189
T	29.8
E	28.9
X	85.6
TVPH	1,740
TEPH	991

MW-14	07-14-03
B	58.6
T	<1.0
E	<1.0
X	<1.0
TVPH	284
TEPH	215

MW-19	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	<100

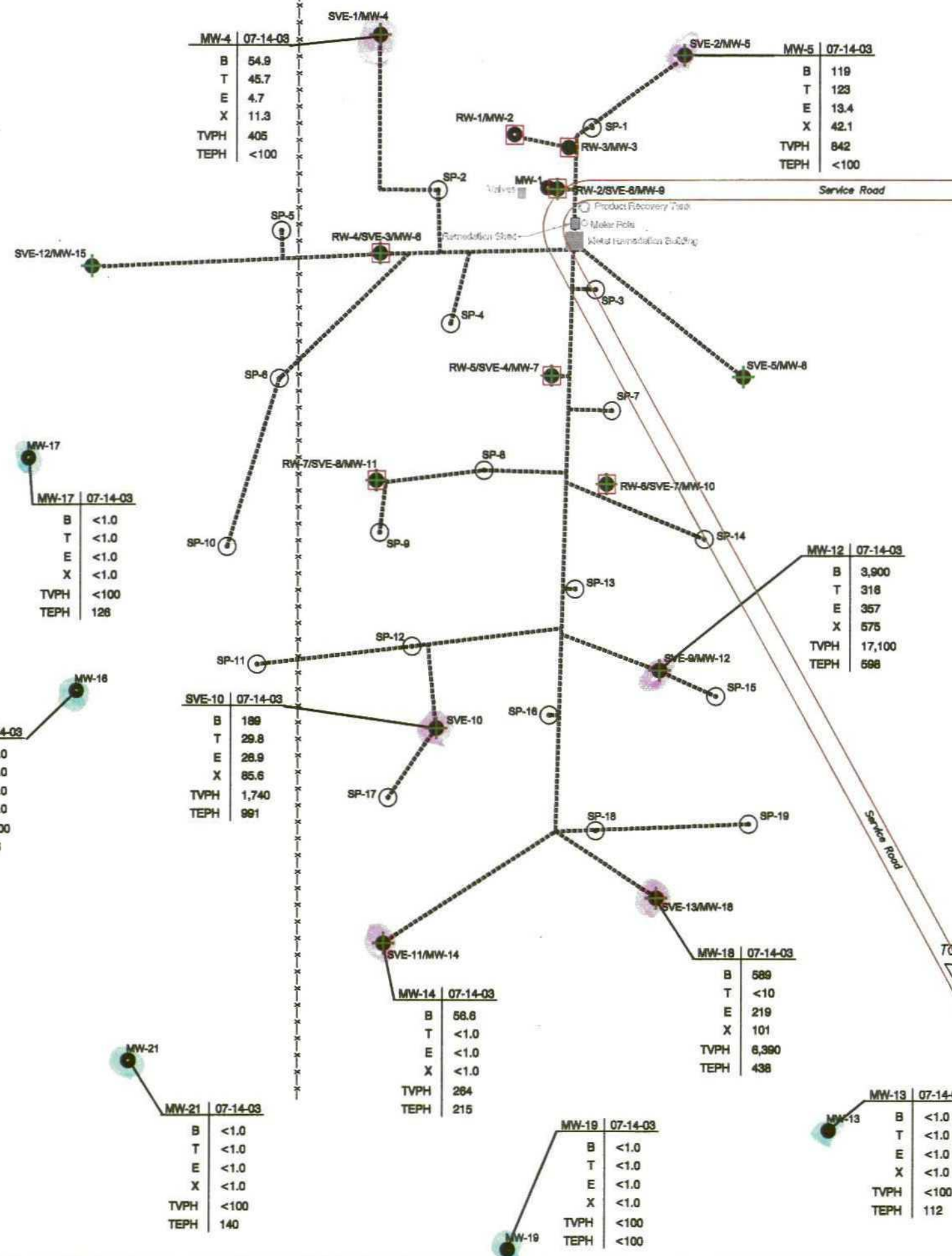
MW-18	07-14-03
B	589
T	<10
E	219
X	101
TVPH	6,390
TEPH	438

MW-13	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	112

MW-12	07-14-03
B	3,900
T	318
E	357
X	575
TVPH	17,100
TEPH	596

MW-23	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	<100

MW-22	07-14-03
B	<1.0
T	<1.0
E	<1.0
X	<1.0
TVPH	<100
TEPH	<100



LEGEND

- MW-1 Existing Monitor Well Location and Designation
- SVE-1 Soil Vapor Extraction Location and Designation
- SP-2 Sparge Well Location and Designation
- RW-1 Product Recovery Well Location and Designation

----- Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

Well Number	Sample Date
B	Benzene
T	Toluene
E	Ethylbenzene
X	Xylenes (Total)
TVPH	Total Volatile Petroleum Hydrocarbons (TPH-GRO)
TEPH	Total Extractable Petroleum Hydrocarbons (TPH-DRO)

µg/L = micrograms per liter
mg/L = milligrams per liter

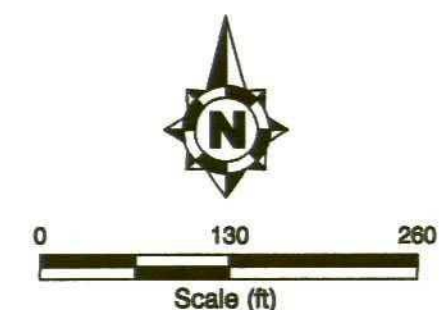


FIGURE 3b : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2003

ConocoPhillips	MAXIM TECHNOLOGIES INC.
EAST HOBBS JUNCTION	DATA COLLECTED : OCT. 17 & 20, 2003
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 8 T19S R38E	PROJECT NO : 4640003 MODIFIED BY : GWP DATE MODIFIED : 03/08/2004 ACAD File : EHJ.GW Results.Oct03.dwg

MW-20	10-17-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.63

MW-16	10-17-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.98

SVE-10	10-20-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	0.42
TEPH	0.46

MW-14	10-20-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	0.11
TEPH	0.14

MW-19	10-17-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.17

MW-18	10-20-03
B	300
T	2.3
E	<1.0
X	<3.0
TVPH	1.9
TEPH	0.13

MW-13	10-17-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.28

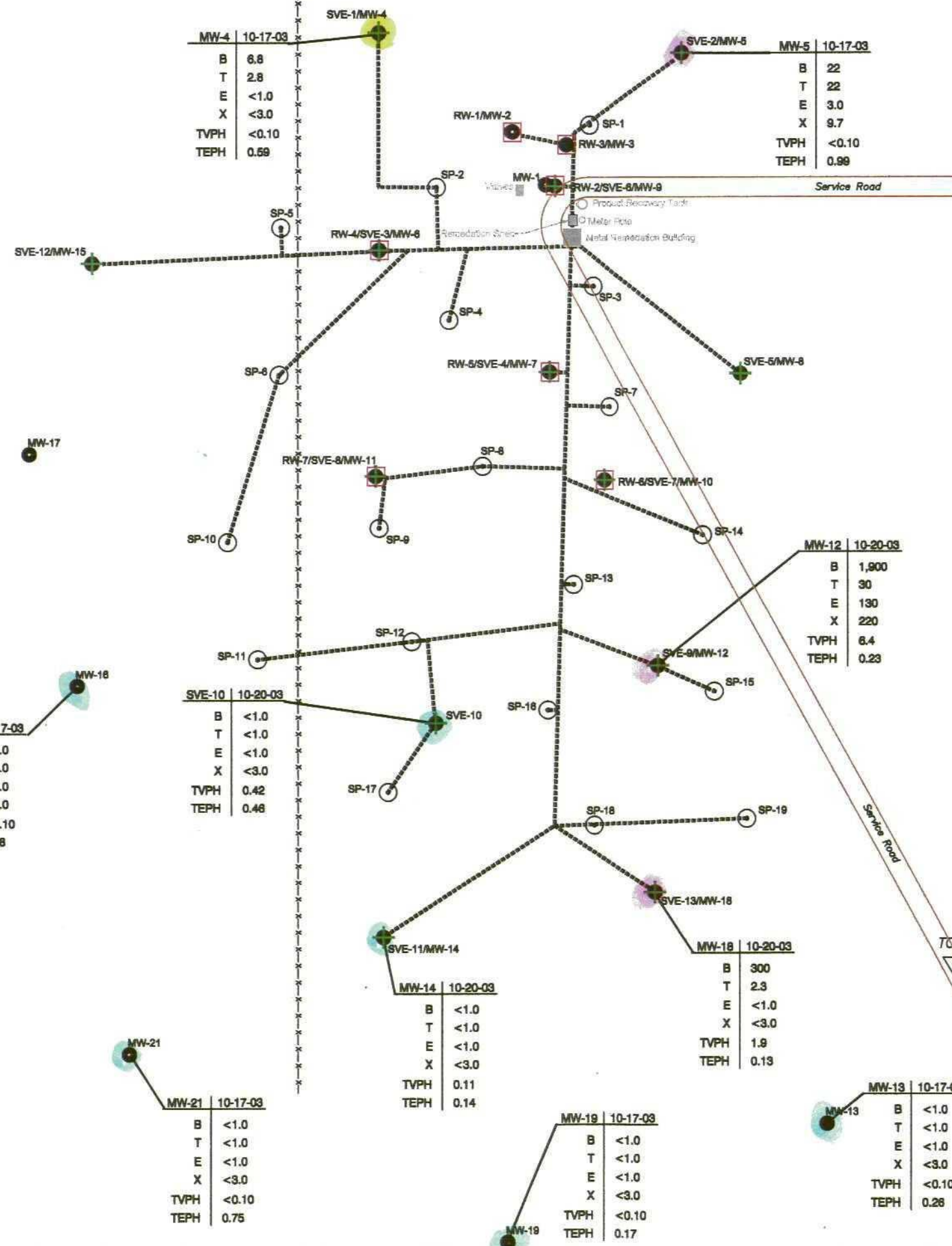
MW-12	10-20-03
B	1,900
T	30
E	130
X	220
TVPH	6.4
TEPH	0.23

MW-23	10-17-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.33

MW-22	10-17-03
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.35

MW-4	10-17-03
B	6.8
T	2.8
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	0.59

MW-5	10-17-03
B	22
T	22
E	3.0
X	9.7
TVPH	<0.10
TEPH	0.99



LEGEND

- MW-1 ● Existing Monitor Well Location and Designation
- SVE-1 ● Soil Vapor Extraction Location and Designation
- SP-2 ○ Sparge Well Location and Designation
- RW-1 □ Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

Well Number	Sample Date
B	Benzene
T	Toluene
E	Ethylbenzene
X	Xylenes (Total)
TVPH	Total Volatile Petroleum Hydrocarbons (TPH-GRO)
TEPH	Total Extractable Petroleum Hydrocarbons (TPH-DRO)

μg/L = micrograms per liter
mg/L = milligrams per liter

MW-20	01-21-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048

MW-16	01-21-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048

MW-4	01-22-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048

SVE-10	01-22-04
B	1.7
T	1.0
E	2.0
X	<3.0
TVPH	<0.10
TEPH	0.42

MW-14	01-21-04
B	34
T	<1.0
E	<1.0
X	<3.0
TVPH	0.18
TEPH	0.12

MW-19	01-21-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048

MW-5	01-22-04
B	32
T	12
E	1.1
X	<3.0
TVPH	0.18
TEPH	<0.048

MW-12	01-21-04
B	2,700
T	130
E	300
X	450
TVPH	12
TEPH	0.25

MW-18	01-21-04
B	260
T	<1.0
E	130
X	73
TVPH	4.3
TEPH	0.11

MW-13	01-21-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048

MW-23	01-21-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048

MW-22	01-21-04
B	<1.0
T	<1.0
E	<1.0
X	<3.0
TVPH	<0.10
TEPH	<0.048



0 130 260
Scale (ft)

FIGURE 3c : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
JANUARY 2004

ConocoPhillips

MAXIM
TECHNOLOGIES INC.

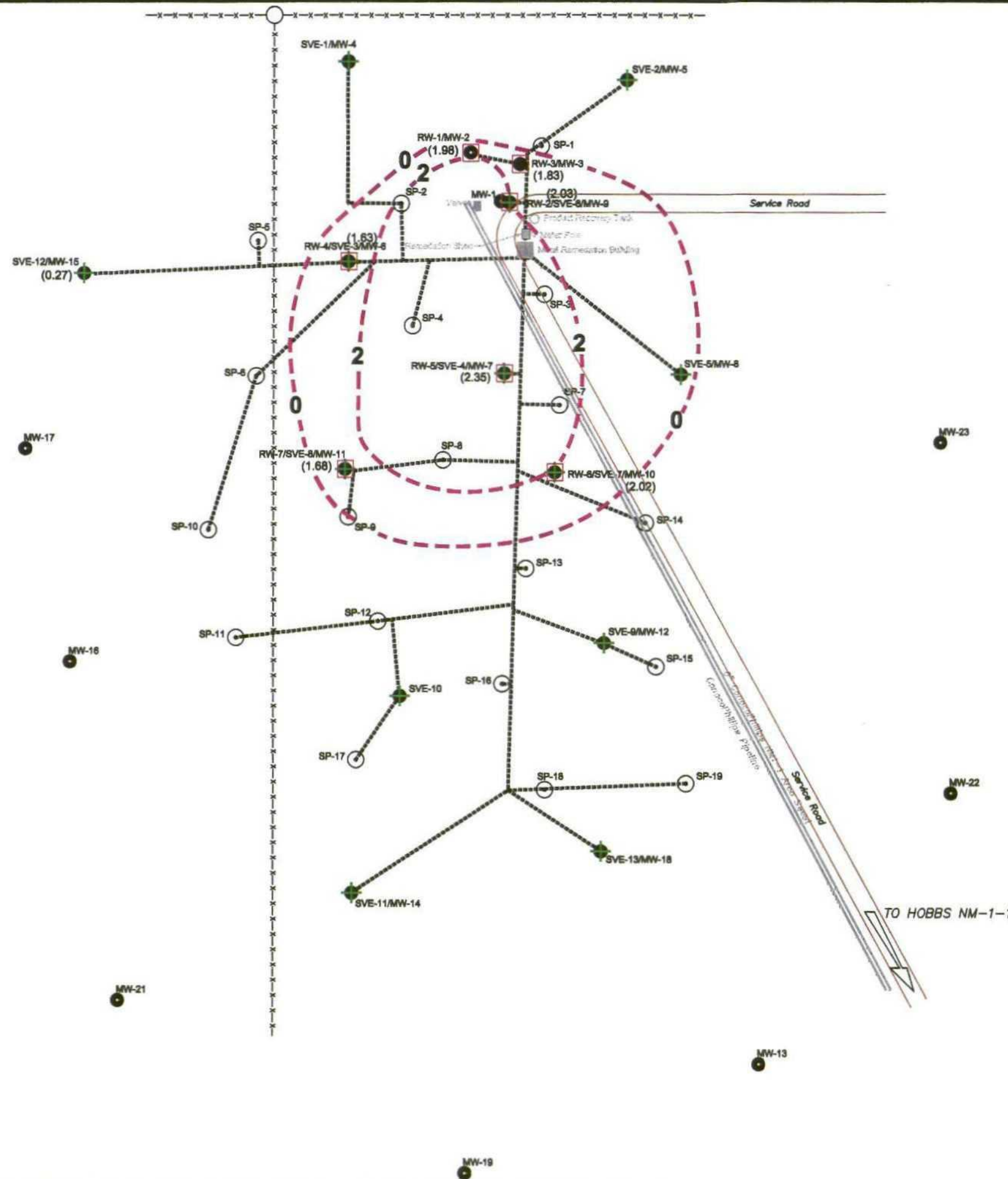
EAST HOBBS JUNCTION

DATA COLLECTED : JAN. 21 & 22, 2004

LOCATION : HOBBS, LEA COUNTY
NEW MEXICO
Sec 8 T19S R38E

PROJECT NO : 4640003
MODIFIED BY : GWP
DATE MODIFIED : 03/08/2004

ACAD File : EHJ.GW Results-Jan04.dwg

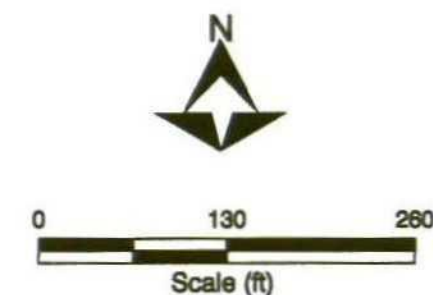


LEGEND

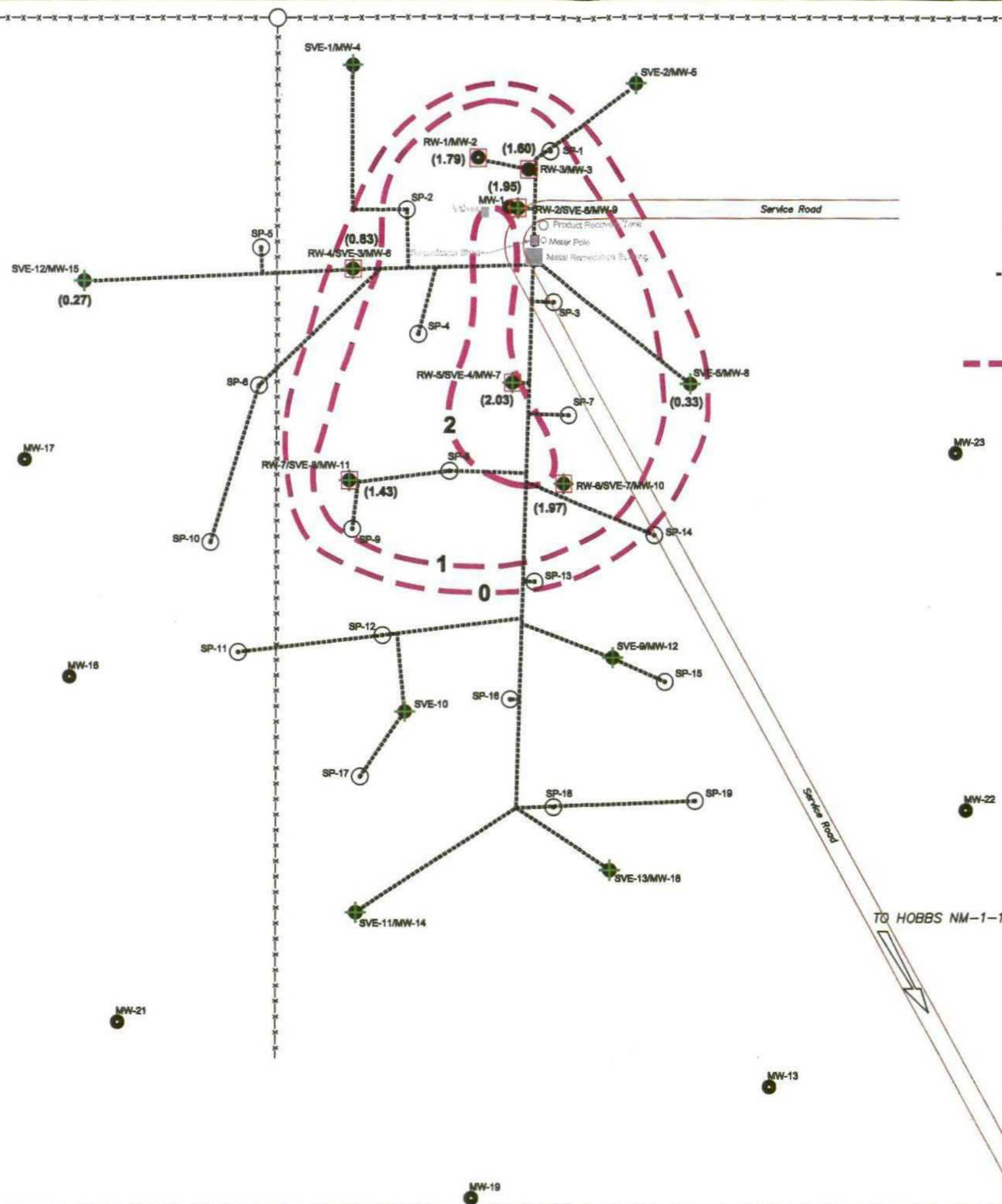
- MW-1 ● Existing Monitor Well Location and Designation
- SVE-1 ● Soil Vapor Extraction Location and Designation
- SP-2 ● Sparge Well Location and Designation
- RW-1 □ Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor
- LPH Thickness Contour
- (2.75) LPH Thickness in Feet

Note:

SVE-12 MW-15 not included in thickness map due to the free product originating from another source.



Project No.:	571-17	Date Map Generated:	11/11/03	Date Data Collected:	09/11/03	Figure No.	4b
Author:	CH	Title:					APPARENT LIQUID PHASE HYDROCARBON (LPH) THICKNESS MAP
Checked:	NF	Client:					ConocoPhillips
Detailed:	EC	Location:					East Hobbs Junction New Mexico
		ACAD File:					571-17 East Hobbs.dwg; tab: 004 09-11-03



- LEGEND**
- MW-1 ● Existing Monitor Well Location and Designation
 - SVE-1 ● Soil Vapor Extraction Location and Designation
 - SP-2 ○ Sparge Well Location and Designation
 - RW-1 □ Product Recovery Well Location and Designation
 - Alignment of Conveyance Piping Corridor
 - (1.97) LPH Thickness (feet)
 - 2 --- LPH Thickness Contour
- Note: SVE-12/MW-15 not included in contouring due to free product originating from another unknown source.

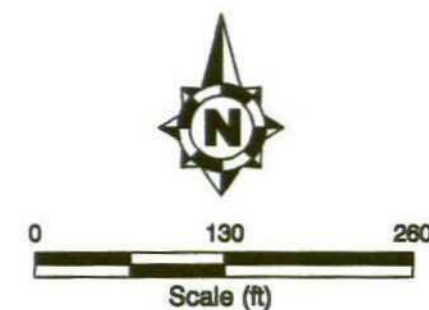
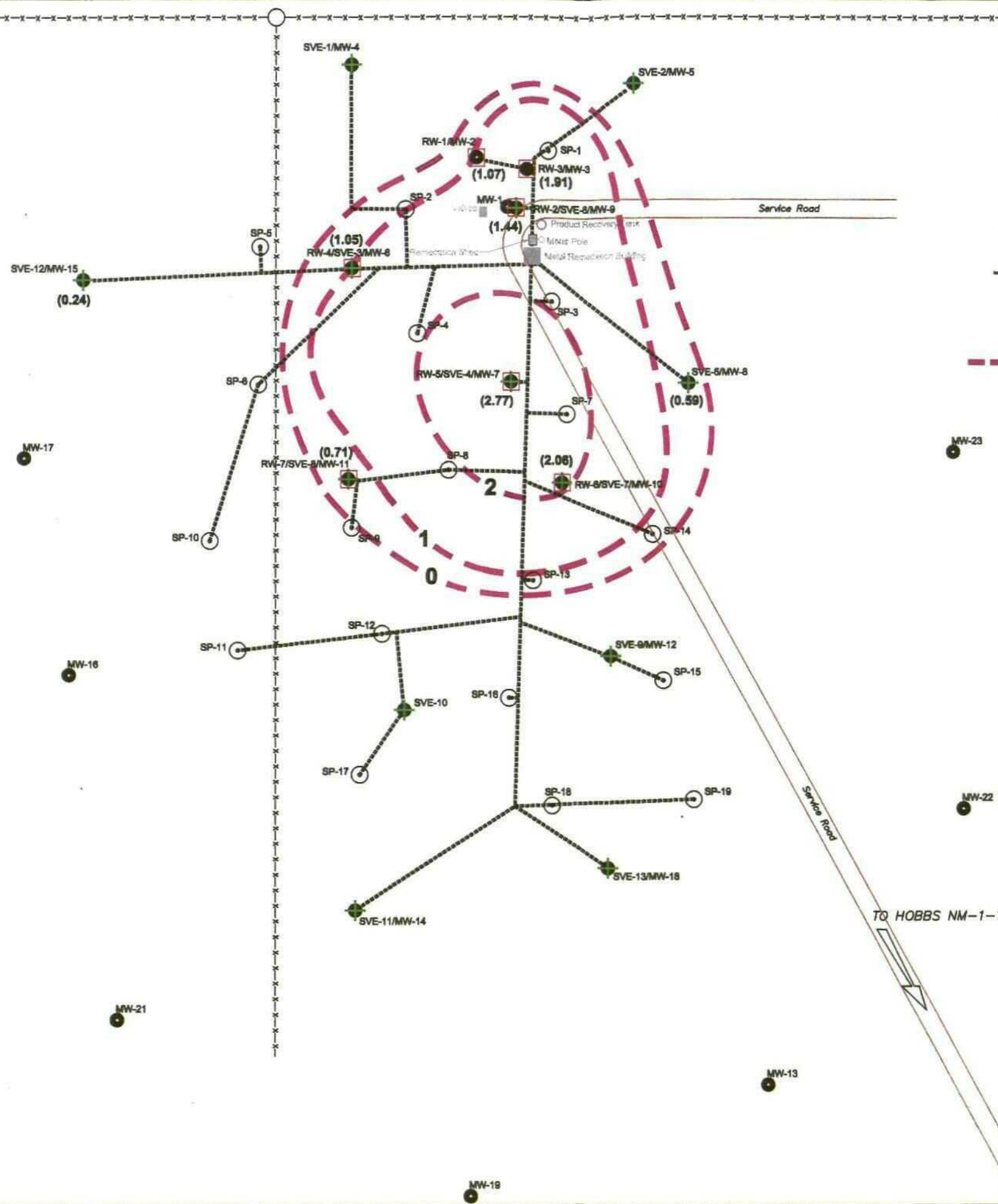


FIGURE 4c : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP OCTOBER/NOVEMBER 2003	
ConocoPhillips	MAXIM TECHNOLOGIES INC.
EAST HOBBS JUNCTION	DATA COLLECTED : OCT. 15, 2003 NOV. 05, 2003
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 8 T19S R38E	PROJECT NO : 4640003 MODIFIED BY : GWP DATE MODIFIED : 03/05/2004 ACAD File : EHJ.LPH Contour.Oct03.dwg



LEGEND

- MW-1 ● Existing Monitor Well Location and Designation
- SVE-1 ● Soil Vapor Extraction Location and Designation
- SP-2 ● Sparge Well Location and Designation
- RW-1 □ Product Recovery Well Location and Designation
- Alignment of Conveyance Piping Corridor
- (2.06) LPH Thickness (feet)
- 2 --- LPH Thickness Contour

Note: SVE-12/MW-15 not included on contouring due to free product originating from another unknown source.

FIGURE 4d : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP
JANUARY 2004

ConocoPhillips	MAXIM TECHNOLOGIES INC®
EAST HOBBS JUNCTION	DATA COLLECTED : JAN 19, 2004
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 8 T19S R38E	PROJECT NO : 4640003 MODIFIED BY : GWP DATE MODIFIED : 03/05/2004 ACAD File : EHJ.LPH Contour.Jan04.dwg

TABLES

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Table 1
Water Level Measurements
ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-1	03/01/01	3606.28	27.14	24.19	2.95	2.36	24.78	3581.50
	06/25/01	3606.28	NM		0.00	0.00		
	09/25/01	3606.28	NM		0.00	0.00		
	12/11/01	3606.28	NM		0.00	0.00		
	05/22/02	3606.28	27.85	25.39	2.46	1.97	25.88	3580.40
MW-2	03/01/01	3606.45	26.88	24.29	2.59	2.07	24.81	3581.64
	06/25/01	3606.45	26.67	25.73	0.94	0.75	25.92	3580.53
	09/25/01	3606.45	26.59	26.04	0.55	0.44	26.15	3580.30
	12/11/01	3606.45	28.20	25.73	2.47	1.98	26.22	3580.23
	05/22/02	3606.45	28.00	26.33	1.67	1.34	26.66	3579.79
	11/05/02	3606.45	28.73	24.67	4.06	3.25	25.48	3580.97
	02/25/03	3606.45	29.30	26.55	2.75	2.20	27.10	3579.35
	04/09/03	3606.45	28.41	26.41	2.00	1.60	26.81	3579.64
	06/25/03	3606.45	28.55	26.58	1.97	1.58	26.97	3579.48
	09/11/03	3606.45	28.60	26.62	1.98	1.58	27.02	3579.43
	11/05/03	3606.45	28.74	26.95	1.79	1.43	27.31	3579.14
	01/19/04	3606.45	28.42	27.35	1.07	0.86	27.56	3578.89
MW-3	03/01/01	3606.33	26.92	24.19	2.73	2.18	24.74	3581.59
	06/25/01	3606.33	27.01	24.91	2.10	1.68	25.33	3581.00
	09/25/01	3606.33	27.52	25.09	2.43	1.94	25.58	3580.75
	12/11/01	3606.33	27.70	25.29	2.41	1.93	25.77	3580.56
	11/05/02	3606.33	28.14	26.13	2.01	1.61	26.53	3579.80
	02/25/03	3606.33	29.55	26.34	3.21	2.57	26.98	3579.35
	04/09/03	3606.33	29.02	26.24	2.78	2.22	26.80	3579.53
	06/25/03	3606.33	28.06	26.47	1.59	1.27	26.79	3579.54
	09/11/03	3606.33	28.72	26.89	1.83	1.46	27.26	3579.07
	11/05/03	3606.33	28.45	26.85	1.60	1.28	27.17	3579.16
	01/19/04	3606.33	28.86	26.95	1.91	1.53	27.33	3579.00
MW-4 (SVE-1)	03/01/01	3606.69	24.60		0.00	0.00	24.60	3582.09
	06/25/01	3606.69	25.14		0.00	0.00	25.14	3581.55
	09/25/01	3606.69	25.36		0.00	0.00	25.36	3581.33
	12/11/01	3606.69	24.54		0.00	0.00	24.54	3582.15
	05/21/02	3606.69	25.95		0.00	0.00	25.95	3580.74
	06/08/02	3606.69	26.00		0.00	0.00	26.00	3580.69
	06/15/02	3606.69	26.00		0.00	0.00	26.00	3580.69
	10/15/02	3606.37	26.86		0.00	0.00	26.86	3579.51
	10/25/02	3606.37	26.90		0.00	0.00	26.90	3579.47
	10/26/02	3606.37	26.89		0.00	0.00	26.89	3579.48
	11/04/02	3606.37	26.86		0.00	0.00	26.86	3579.51
	11/05/02	3606.37	26.80		0.00	0.00	26.80	3579.57
	12/16/02	3606.37	26.80		0.00	0.00	26.80	3579.57
	01/22/03	3606.37	26.68		0.00	0.00	26.68	3579.69
	02/14/03	3606.37	26.88		0.00	0.00	26.88	3579.49
	02/24/03	3606.37	26.90		0.00	0.00	26.90	3579.47
	04/07/03	3606.37	27.00		0.00	0.00	27.00	3579.37
	04/24/03	3606.37	26.98		0.00	0.00	26.98	3579.39
	07/15/03	3606.37	27.09		0.00	0.00	27.09	3579.28
	09/11/03	3606.37	27.23		0.00	0.00	27.23	3579.14
	10/15/03	3606.37	27.25		0.00	0.00	27.25	3579.12
	01/19/04	3606.37	27.71		0.00	0.00	27.71	3578.66

Table 1
Water Level Measurements
ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-5 (SVE-2)	03/01/01	3605.52	24.03		0.00	0.00	24.03	3581.49
	06/25/01	3605.52	24.23		0.00	0.00	24.23	3581.29
	09/25/01	3605.52	24.48		0.00	0.00	24.48	3581.04
	12/11/01	3605.52	24.68		0.00	0.00	24.68	3580.84
	05/21/02	3605.52	25.12		0.00	0.00	25.12	3580.40
	06/08/02	3605.52	25.13		0.00	0.00	25.13	3580.39
	06/15/02	3605.52	25.13		0.00	0.00	25.13	3580.39
	10/15/02	3604.90	26.20		0.00	0.00	26.20	3578.70
	10/25/02	3604.90	26.19		0.00	0.00	26.19	3578.71
	10/26/02	3604.90	26.21		0.00	0.00	26.21	3578.69
	11/04/02	3604.90	26.08		0.00	0.00	26.08	3578.82
	11/05/02	3604.90	26.02		0.00	0.00	26.02	3578.88
	12/16/02	3604.90	26.06		0.00	0.00	26.06	3578.84
	01/22/03	3604.90	25.81		0.00	0.00	25.81	3579.09
	02/08/03	3604.90	25.91		0.00	0.00	25.91	3578.99
	02/14/03	3604.90	25.89		0.00	0.00	25.89	3579.01
	02/24/03	3604.90	25.96		0.00	0.00	25.96	3578.94
	04/07/03	3604.90	26.06		0.00	0.00	26.06	3578.84
	04/24/03	3604.90	26.05		0.00	0.00	26.05	3578.85
	07/15/03	3604.90	26.38		0.00	0.00	26.38	3578.52
	09/11/03	3604.90	26.43		0.00	0.00	26.43	3578.47
	10/15/03	3604.90	26.70		0.00	0.00	26.70	3578.20
	01/19/04	3604.90	27.06		0.00	0.00	27.06	3577.84
MW-6	03/01/01	3606.14	25.54	24.51	1.03	0.82	24.72	3581.42
	06/25/01	3606.14	26.88	24.42	2.46	1.97	24.91	3581.23
	09/25/01	3606.14	25.96	25.93	0.03	0.02	25.94	3580.20
	12/11/01	3606.14	27.64	25.66	1.98	1.58	26.06	3580.08
	06/25/03	3606.14	28.31	26.78	1.53	1.22	27.09	3579.05
	09/11/03	3606.14	28.46	26.83	1.63	1.30	27.16	3578.98
	11/05/03	3606.14	28.02	27.19	0.83	0.66	27.36	3578.78
	01/19/04	3606.14	28.41	27.36	1.05	0.84	27.57	3578.57
MW-7	03/01/01	3605.50	26.61	23.73	2.88	2.30	24.31	3581.19
	06/25/01	3605.50	25.35	25.30	0.05	0.04	25.31	3580.19
	09/25/01	3605.50	26.05	25.41	0.64	0.51	25.54	3579.96
	05/22/02	3605.50	26.54	25.98	0.56	0.45	26.09	3579.41
	11/05/02	3605.50	28.68	25.44	3.24	2.59	26.09	3579.41
	02/25/03	3605.50	29.56	26.08	3.48	2.78	26.78	3578.72
	04/09/03	3605.50	29.18	26.28	2.90	2.32	26.86	3578.64
	06/25/03	3605.50	28.73	26.72	2.01	1.61	27.12	3578.38
	09/11/03	3605.50	29.08	26.73	2.35	1.88	27.20	3578.30
	11/05/03	3605.50	29.03	27.00	2.03	1.62	27.41	3578.09
	01/19/04	3605.50	29.77	27.00	2.77	2.22	27.55	3577.95
MW-8 (SVE-5)	03/01/01	3605.25	24.29		0.00	0.00	24.29	3580.96
	06/25/01	3605.25	25.54		0.00	0.00	25.54	3579.71
	09/25/01	3605.25	24.82		0.00	0.00	24.82	3580.43
	12/11/01	3605.25	25.03		0.00	0.00	25.03	3580.22
	05/21/02	3605.25	25.40		0.00	0.00	25.40	3579.85
	06/08/02	3605.25	25.45		0.00	0.00	25.45	3579.80
	06/15/02	3605.25	25.47		0.00	0.00	25.47	3579.78
	10/15/02	3604.92	26.25		0.00	0.00	26.25	3578.67
	10/25/02	3604.92	26.26		0.00	0.00	26.26	3578.66
	10/26/02	3604.92	26.25		0.00	0.00	26.25	3578.67
	11/04/02	3604.92	26.00		0.00	0.00	26.00	3578.92

Table 1
Water Level Measurements
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-8 (SVE-5) cont.	11/05/02	3604.92	25.99		0.00	0.00	25.99	3578.93
	12/16/02	3604.92	25.85		0.00	0.00	25.85	3579.07
	02/14/03	3604.92	25.91	25.90	0.01	0.01	25.90	3579.02
	02/24/03	3604.92	26.00	25.95	0.05	0.04	25.96	3578.96
	01/22/03	3604.92	25.70		0.00	0.00	25.70	3579.22
	04/07/03	3604.92	26.11	26.00	0.11	0.09	26.02	3578.90
	04/24/03	3604.92	26.11	26.01	0.10	0.08	26.03	3578.89
	06/25/03	3604.92	26.96	26.39	0.57	0.46	26.50	3578.42
	09/11/03	3604.92	27.13	26.58	0.55	0.44	26.69	3578.23
	11/05/03	3604.92	26.51	26.18	0.33	0.26	26.25	3578.67
	01/19/04	3604.92	27.59	27.00	0.59	0.47	27.12	3577.80
MW-9	03/01/01	3605.75	26.82	23.68	3.14	2.51	24.31	3581.44
	06/25/01	3605.75	24.79	24.73	0.06	0.05	24.74	3581.01
	09/25/01	3605.75	26.28	25.90	0.38	0.30	25.98	3579.77
	12/11/01	3605.75	28.73	25.49	3.24	2.59	26.14	3579.61
	05/22/02	3605.75	27.64	26.19	1.45	1.16	26.48	3579.27
	11/05/02	3605.75	29.15	25.83	3.32	2.66	26.49	3579.26
	02/25/03	3605.75	28.62	26.38	2.24	1.79	26.83	3578.92
	04/09/03	3605.75	28.24	26.30	1.94	1.55	26.69	3579.06
	04/22/03	3605.75	28.95	26.30	2.65	2.12	26.83	3578.92
	06/25/03	3605.75	29.08	27.02	2.06	1.65	27.43	3578.32
	09/11/03	3605.75	29.25	27.22	2.03	1.62	27.63	3578.12
	11/05/03	3605.75	29.30	27.35	1.95	1.56	27.74	3578.01
	01/19/04	3605.75	29.94	28.50	1.44	1.15	28.79	3576.96
MW-10	03/01/01	3604.94	25.57	23.53	2.04	1.63	23.94	3581.00
	06/25/01	3604.94	25.95	23.75	2.20	1.76	24.19	3580.75
	09/25/01	3604.94	24.47		0.00	0.00	24.47	3580.47
	12/11/01	3604.94	26.31	24.27	2.04	1.63	24.68	3580.26
	05/22/02	3604.94	25.50	25.00	0.50	0.40	25.10	3579.84
	11/05/02	3604.94	28.84	25.33	3.51	2.81	26.03	3578.91
	02/25/03	3604.94	28.41	25.26	3.15	2.52	25.89	3579.05
	04/09/03	3604.94	28.15	25.48	2.67	2.14	26.01	3578.93
	06/25/03	3604.94	27.73	25.96	1.77	1.42	26.31	3578.63
	09/11/03	3604.94	28.36	26.34	2.02	1.62	26.74	3578.20
	11/05/03	3604.94	28.17	26.20	1.97	1.58	26.59	3578.35
	01/19/04	3604.94	28.36	26.30	2.06	1.65	26.71	3578.23
MW-11 (SVE-8)	03/01/01	3608.06	27.09		0.00	0.00	27.09	3580.97
	06/25/01	3608.06	27.30		0.00	0.00	27.30	3580.76
	09/25/01	3608.06	28.26	27.51	0.75	0.60	27.66	3580.40
	12/11/01	3608.06	28.36	27.50	0.86	0.69	27.67	3580.39
	05/21/02	3608.06	29.67	27.60	2.07	1.66	28.01	3580.05
	06/16/02	3608.06	30.95	28.48	2.47	1.98	28.97	3579.09
	10/25/02	3608.06	30.73	27.90	2.83	2.26	28.47	3579.59
	11/04/02	3608.06	30.81	27.95	2.86	2.29	28.52	3579.54
	11/05/02	3608.06	30.97	27.92	3.05	2.44	28.53	3579.53
	02/24/03	3608.06	30.96	28.97	1.99	1.59	29.37	3578.69
	11/05/02	3608.06	30.57	29.83	0.74	0.59	29.98	3578.08
	02/25/03	3608.06	30.90	28.71	2.19	1.75	29.15	3578.91
	04/09/03	3608.06	30.96	28.97	1.99	1.59	29.37	3578.69
	09/11/03	3608.06	30.74	29.06	1.68	1.34	29.40	3578.66
	11/05/03	3608.06	31.25	29.82	1.43	1.14	30.11	3577.95
	01/19/04	3608.06	30.94	30.23	0.71	0.57	30.37	3577.69

Table 1
Water Level Measurements
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-12 (SVE-9)	03/01/01	3604.40	23.87		0.00	0.00	23.87	3580.53
	06/25/01	3604.40	24.14		0.00	0.00	24.14	3580.26
	09/25/01	3604.40	24.38		0.00	0.00	24.38	3580.02
	12/11/01	3604.40	24.62		0.00	0.00	24.62	3579.78
	05/21/02	3604.40	24.96		0.00	0.00	24.96	3579.44
	06/08/02	3604.40	25.64		0.00	0.00	25.64	3578.76
	06/15/02	3604.40	25.64		0.00	0.00	25.64	3578.76
	10/25/02	3604.14	25.83		0.00	0.00	25.83	3578.31
	10/26/02	3604.14	25.84		0.00	0.00	25.84	3578.30
	11/04/02	3604.14	25.66		0.00	0.00	25.66	3578.48
	11/05/02	3604.14	25.54		0.00	0.00	25.54	3578.60
	12/16/02	3604.14	25.52		0.00	0.00	25.52	3578.62
	01/22/03	3604.14	25.50		0.00	0.00	25.50	3578.64
	04/24/03	3604.14	25.58		0.00	0.00	25.58	3578.56
	09/11/03	3604.14	26.08		0.00	0.00	26.08	3578.06
	10/15/03	3604.14	26.33		0.00	0.00	26.33	3577.81
	01/19/04	3604.14	26.68		0.00	0.00	26.68	3577.46
MW-13	03/01/01	3604.31	24.70		0.00	0.00	24.70	3579.61
	06/25/01	3604.31	24.95		0.00	0.00	24.95	3579.36
	09/25/01	3604.31	25.23		0.00	0.00	25.23	3579.08
	12/11/01	3604.31	25.48		0.00	0.00	25.48	3578.83
	05/21/02	3604.31	25.79		0.00	0.00	25.79	3578.52
	06/15/02	3604.31	25.85		0.00	0.00	25.85	3578.46
	09/20/02	3604.31	25.97		0.00	0.00	25.97	3578.34
	10/15/02	3604.31	26.11		0.00	0.00	26.11	3578.20
	10/22/02	3604.31	26.11		0.00	0.00	26.11	3578.20
	10/25/02	3604.31	26.13		0.00	0.00	26.13	3578.18
	10/26/02	3604.31	26.12		0.00	0.00	26.12	3578.19
	11/04/02	3604.31	26.05		0.00	0.00	26.05	3578.26
	11/05/02	3604.31	26.06		0.00	0.00	26.06	3578.25
	11/22/02	3604.31	26.01		0.00	0.00	26.01	3578.30
	11/29/02	3604.31	25.95		0.00	0.00	25.95	3578.36
	01/22/03	3604.31	25.88		0.00	0.00	25.88	3578.43
	02/14/03	3604.31	25.93		0.00	0.00	25.93	3578.38
	02/24/03	3604.31	25.96		0.00	0.00	25.96	3578.35
	04/24/03	3604.31	26.14		0.00	0.00	26.14	3578.17
	07/15/03	3604.31	26.40		0.00	0.00	26.40	3577.91
	09/11/03	3604.31	26.55		0.00	0.00	26.55	3577.76
	10/15/03	3604.31	26.71		0.00	0.00	26.71	3577.60
	01/19/04	3604.31	26.98		0.00	0.00	26.98	3577.33
MW-14 (SVE-11)	03/01/01	3604.11	23.96		0.00	0.00	23.96	3580.15
	06/25/01	3604.11	24.14		0.00	0.00	24.14	3579.97
	09/25/01	3604.11	24.45		0.00	0.00	24.45	3579.66
	12/11/01	3604.11	24.63		0.00	0.00	24.63	3579.48
	05/21/02	3604.11	25.00		0.00	0.00	25.00	3579.11
	06/15/02	3604.11	25.08		0.00	0.00	25.08	3579.03
	10/15/02	3603.77	25.82		0.00	0.00	25.82	3577.95
	01/22/03	3603.77	25.90		0.00	0.00	25.90	3577.87
	04/24/03	3603.77	25.92		0.00	0.00	25.92	3577.85
	07/15/03	3603.77	26.11		0.00	0.00	26.11	3577.66
	09/11/03	3603.77	26.26		0.00	0.00	26.26	3577.51
	10/15/03	3603.77	26.41		0.00	0.00	26.41	3577.36
	01/19/04	3603.77	26.68		0.00	0.00	26.68	3577.09

Table 1
Water Level Measurements
ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-15 (SVE-12)	03/01/01	3609.78	28.26	28.20	0.06	0.05	28.21	3581.57
	06/25/01	3609.78	28.90	28.24	0.66	0.53	28.37	3581.41
	09/25/01	3609.78	NM		0.00	0.00		
	12/11/01	3609.78	NM		0.00	0.00		
	05/21/02	3609.78	29.77	28.98	0.79	0.63	29.14	3580.64
	06/08/02	3609.78	29.85	29.05	0.80	0.64	29.21	3580.57
	06/15/02	3609.23	30.42	29.65	0.77	0.62	29.80	3579.43
	10/25/02	3609.23	30.57	29.67	0.90	0.72	29.85	3579.38
	11/04/02	3609.23	30.62	29.80	0.82	0.66	29.96	3579.27
	11/22/02	3609.23	30.59	29.81	0.78	0.62	29.97	3579.26
	11/29/02	3609.23	30.59	29.70	0.89	0.71	29.88	3579.35
	02/08/03	3609.23	30.44	30.10	0.34	0.27	30.17	3579.06
	02/24/03	3609.23	30.51	30.09	0.42	0.34	30.17	3579.06
	04/07/03	3609.23	30.50	30.21	0.29	0.23	30.27	3578.96
	04/24/03	3609.23	30.44	30.24	0.20	0.16	30.28	3578.95
	11/05/02	3609.23	30.57	29.81	0.76	0.61	29.96	3579.27
	02/25/03	3609.23	30.51	30.09	0.42	0.34	30.17	3579.06
	04/09/03	3609.23	30.50	30.21	0.29	0.23	30.27	3578.96
	04/22/03	3609.23	30.49	30.27	0.22	0.18	30.31	3578.92
	06/25/03	3609.23	30.55	30.34	0.21	0.17	30.38	3578.85
	09/11/03	3609.23	30.79	30.52	0.27	0.22	30.57	3578.66
	11/05/03	3609.23	30.94	30.67	0.27	0.22	30.72	3578.51
	01/19/04	3609.23	31.11	30.87	0.24	0.19	30.92	3578.31
MW-16 (SVE-13)	03/01/01	3606.31	25.57		0.00	0.00	25.57	3580.74
	06/25/01	3606.31	25.78		0.00	0.00	25.78	3580.53
	09/25/01	3606.31	26.01		0.00	0.00	26.01	3580.30
	12/11/01	3606.31	26.21		0.00	0.00	26.21	3580.10
	05/21/02	3606.31	26.57		0.00	0.00	26.57	3579.74
	06/15/02	3606.31	26.64		0.00	0.00	26.64	3579.67
	06/16/02	3606.31	26.63		0.00	0.00	26.63	3579.68
	09/20/02	3606.31	26.80		0.00	0.00	26.80	3579.51
	10/15/02	3606.31	26.85		0.00	0.00	26.85	3579.46
	10/22/02	3606.31	26.88		0.00	0.00	26.88	3579.43
	10/25/02	3606.31	26.88		0.00	0.00	26.88	3579.43
	10/26/02	3606.31	26.88		0.00	0.00	26.88	3579.43
	11/04/02	3606.31	26.90		0.00	0.00	26.90	3579.41
	11/05/02	3606.31	26.91		0.00	0.00	26.91	3579.40
	01/22/03	3606.31	26.95		0.00	0.00	26.95	3579.36
	02/14/03	3606.31	26.95		0.00	0.00	26.95	3579.36
	02/24/03	3606.31	26.95		0.00	0.00	26.95	3579.36
	04/07/03	3606.31	27.05		0.00	0.00	27.05	3579.26
	04/24/03	3606.31	27.16		0.00	0.00	27.16	3579.15
	07/14/03	3606.31	27.25		0.00	0.00	27.25	3579.06
	08/02/03	3606.31	27.27		0.00	0.00	27.27	3579.04
MW-17	09/11/03	3606.31	27.35		0.00	0.00	27.35	3578.96
	10/15/03	3606.31	27.49		0.00	0.00	27.49	3578.82
	01/19/04	3606.31	27.68		0.00	0.00	27.68	3578.63
	03/01/01	3609.03	27.78		0.00	0.00	27.78	3581.25
	06/25/01	3609.03	27.99		0.00	0.00	27.99	3581.04
	09/25/01	3609.03	28.21		0.00	0.00	28.21	3580.82
	12/11/01	3609.03	28.39		0.00	0.00	28.39	3580.64
	05/21/02	3609.03	28.77		0.00	0.00	28.77	3580.26
	06/08/02	3609.03	28.80		0.00	0.00	28.80	3580.23
	06/13/02	3609.03	28.81		0.00	0.00	28.81	3580.22

Table 1
Water Level Measurements
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-17 cont.	06/15/02	3609.03	28.81		0.00	0.00	28.81	3580.22
	09/20/02	3609.03	29.00		0.00	0.00	29.00	3580.03
	10/15/02	3609.03	29.07		0.00	0.00	29.07	3579.96
	10/22/02	3609.03	29.06		0.00	0.00	29.06	3579.97
	10/25/02	3609.03	29.06		0.00	0.00	29.06	3579.97
	10/26/02	3609.03	29.09		0.00	0.00	29.09	3579.94
	11/04/02	3609.03	29.10		0.00	0.00	29.10	3579.93
	11/05/02	3609.03	29.13		0.00	0.00	29.13	3579.90
	11/22/02	3609.03	29.16		0.00	0.00	29.16	3579.87
	12/16/02	dry	NM					
	01/22/03	3609.03	29.15		0.00	0.00	29.15	3579.88
	02/08/03	3609.03	29.16		0.00	0.00	29.16	3579.87
	02/14/03	3609.03	29.17		0.00	0.00	29.17	3579.86
	02/24/03	3609.03	29.19		0.00	0.00	29.19	3579.84
	04/24/03	3609.03	29.28		0.00	0.00	29.28	3579.75
	04/07/03	3609.03	29.23		0.00	0.00	29.23	3579.80
	07/14/03	3609.03	29.45		0.00	0.00	29.45	3579.58
	08/02/03	3609.03	29.49		0.00	0.00	29.49	3579.54
	09/11/03	3609.03	29.57		0.00	0.00	29.57	3579.46
	10/15/03	3609.03	29.70		0.00	0.00	29.70	3579.33
	01/19/04	3609.03	29.88		0.00	0.00	29.88	3579.15
MW-18 (SVE-13)	03/01/01	3605.71	25.59		0.00	0.00	25.59	3580.12
	06/25/01	3605.71	25.85		0.00	0.00	25.85	3579.86
	09/25/01	3605.71	26.10		0.00	0.00	26.10	3579.61
	12/11/01	3605.71	26.33		0.00	0.00	26.33	3579.38
	05/21/02	3605.71	26.70		0.00	0.00	26.70	3579.01
	06/15/02	3605.71	26.75		0.00	0.00	26.75	3578.96
	06/16/02	3605.71	26.74		0.00	0.00	26.74	3578.97
	09/20/02	3605.34	27.54		0.00	0.00	27.54	3577.80
	10/15/02	3605.34	27.55		0.00	0.00	27.55	3577.79
	10/22/02	3605.34	27.55		0.00	0.00	27.55	3577.79
	10/25/02	3605.34	27.54		0.00	0.00	27.54	3577.80
	10/26/02	3605.34	27.55		0.00	0.00	27.55	3577.79
	11/05/02	3605.34	27.35		0.00	0.00	27.35	3577.99
	11/22/02	3605.34	27.38		0.00	0.00	27.38	3577.96
	01/22/03	3605.34	27.43		0.00	0.00	27.43	3577.91
	02/24/03	3605.34	27.46		0.00	0.00	27.46	3577.88
	04/07/03	3605.34	27.57		0.00	0.00	27.57	3577.77
	04/24/03	3605.34	27.58		0.00	0.00	27.58	3577.76
	07/15/03	3605.34	27.78		0.00	0.00	27.78	3577.56
	08/02/03	3605.34	27.83		0.00	0.00	27.83	3577.51
	09/11/03	3605.34	28.01		0.00	0.00	28.01	3577.33
	10/15/03	3605.34	28.15		0.00	0.00	28.15	3577.19
	01/19/04	3605.34	28.42		0.00	0.00	28.42	3576.92
MW-19	03/01/01	3606.69	27.20		0.00	0.00	27.20	3579.49
	06/25/01	3606.69	27.45		0.00	0.00	27.45	3579.24
	09/25/01	3606.69	27.71		0.00	0.00	27.71	3578.98
	12/11/01	3606.69	27.93		0.00	0.00	27.93	3578.76
	05/21/02	3606.69	28.26		0.00	0.00	28.26	3578.43
	06/08/02	3606.69	28.30		0.00	0.00	28.30	3578.39
	06/15/02	3606.69	28.33		0.00	0.00	28.33	3578.36
	09/20/02	3606.69	28.54		0.00	0.00	28.54	3578.15
	10/15/02	3606.69	28.57		0.00	0.00	28.57	3578.12
	10/22/02	3606.69	28.57		0.00	0.00	28.57	3578.12

Table 1
Water Level Measurements
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-19 cont.	10/25/02	3606.69	28.55		0.00	0.00	28.55	3578.14
	10/26/02	3606.69	28.58		0.00	0.00	28.58	3578.11
	11/04/02	3606.69	28.58		0.00	0.00	28.58	3578.11
	11/05/02	3606.69	28.56		0.00	0.00	28.56	3578.13
	11/22/02	3606.69	28.55		0.00	0.00	28.55	3578.14
	11/29/02	3606.69	28.54		0.00	0.00	28.54	3578.15
	12/16/02	3606.69	28.54		0.00	0.00	28.54	3578.15
	01/22/03	3606.69	28.48		0.00	0.00	28.48	3578.21
	02/08/03	3606.69	28.50		0.00	0.00	28.50	3578.19
	02/14/03	3606.69	28.51		0.00	0.00	28.51	3578.18
	02/24/03	3606.69	28.51		0.00	0.00	28.51	3578.18
	04/24/03	3606.69	28.62		0.00	0.00	28.62	3578.07
	07/15/03	3606.69	28.90		0.00	0.00	28.90	3577.79
	08/02/03	3606.69	28.93		0.00	0.00	28.93	3577.76
	09/11/03	3606.69	29.03		0.00	0.00	29.03	3577.66
	10/15/03	3606.69	29.18		0.00	0.00	29.18	3577.51
	01/19/04	3606.69	29.42		0.00	0.00	29.42	3577.27
MW-20	03/01/01	3606.25	30.24		0.00	0.00	30.24	3576.01
	06/08/01	3606.25	31.26		0.00	0.00	31.26	3574.99
	06/25/01	3606.25	31.45		0.00	0.00	31.45	3574.80
	09/25/01	3606.25	31.67		0.00	0.00	31.67	3574.58
	12/11/01	3606.25	30.84		0.00	0.00	30.84	3575.41
	05/21/02	3606.25	31.21		0.00	0.00	31.21	3575.04
	06/08/02	3606.25	31.26		0.00	0.00	31.26	3574.99
	06/13/02	3606.25	31.28		0.00	0.00	31.28	3574.97
	06/15/02	3606.25	31.28		0.00	0.00	31.28	3574.97
	09/20/02	3606.25	31.46		0.00	0.00	31.46	3574.79
	10/15/02	3606.25	31.52		0.00	0.00	31.52	3574.73
	10/22/02	3606.25	31.53		0.00	0.00	31.53	3574.72
	10/25/02	3606.25	31.52		0.00	0.00	31.52	3574.73
	10/26/02	3606.25	31.54		0.00	0.00	31.54	3574.71
	11/04/02	3606.25	31.56		0.00	0.00	31.56	3574.69
	11/05/02	3606.25	31.56		0.00	0.00	31.56	3574.69
	11/22/02	3606.25	31.59		0.00	0.00	31.59	3574.66
	11/29/02	3606.25	31.56		0.00	0.00	31.56	3574.69
	12/16/02	3606.25	31.65		0.00	0.00	31.65	3574.60
	01/22/03	3606.25	31.60		0.00	0.00	31.60	3574.65
	02/08/03	3606.25	31.65		0.00	0.00	31.65	3574.60
	02/14/03	3606.25	31.64		0.00	0.00	31.64	3574.61
	02/24/03	3606.25	31.64		0.00	0.00	31.64	3574.61
	04/07/03	3606.25	31.75		0.00	0.00	31.75	3574.50
	04/24/03	3606.25	31.76		0.00	0.00	31.76	3574.49
	07/15/03	3606.25	31.90		0.00	0.00	31.90	3574.35
	08/02/03	3606.25	31.95		0.00	0.00	31.95	3574.30
	09/11/03	3606.25	32.04		0.00	0.00	32.04	3574.21
	10/15/03	3606.25	32.17		0.00	0.00	32.17	3574.08
	01/19/04	3606.25	32.35		0.00	0.00	32.35	3573.90
MW-21	06/08/02	3603.51	24.62		0.00	0.00	24.62	3578.89
	06/13/02	3603.51	24.61		0.00	0.00	24.61	3578.90
	06/15/02	3603.51	24.63		0.00	0.00	24.63	3578.88
	09/20/02	3603.51	24.81		0.00	0.00	24.81	3578.70
	10/15/02	3603.51	24.86		0.00	0.00	24.86	3578.65
	10/22/02	3603.51	24.88		0.00	0.00	24.88	3578.63
	10/25/02	3603.51	24.92		0.00	0.00	24.92	3578.59

Table 1
Water Level Measurements
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-21 cont.	10/26/02	3603.51	24.92		0.00	0.00	24.92	3578.59
	11/04/02	3603.51	24.93		0.00	0.00	24.93	3578.58
	11/05/02	3603.51	24.90		0.00	0.00	24.90	3578.61
	11/22/02	3603.51	24.87		0.00	0.00	24.87	3578.64
	11/29/02	3603.51	24.90		0.00	0.00	24.90	3578.61
	12/16/02	3603.51	24.95		0.00	0.00	24.95	3578.56
	01/22/03	3603.51	24.88		0.00	0.00	24.88	3578.63
	02/08/03	3603.51	24.89		0.00	0.00	24.89	3578.62
	02/14/03	3603.51	24.89		0.00	0.00	24.89	3578.62
	02/24/03	3603.51	24.90		0.00	0.00	24.90	3578.61
	04/07/03	3603.51	25.00		0.00	0.00	25.00	3578.51
	04/24/03	3603.51	25.01		0.00	0.00	25.01	3578.50
	07/15/03	3603.51	25.20		0.00	0.00	25.20	3578.31
	08/02/03	3603.51	25.28		0.00	0.00	25.28	3578.23
	09/11/03	3603.51	25.35		0.00	0.00	25.35	3578.16
	10/15/03	3603.51	25.48		0.00	0.00	25.48	3578.03
	01/19/04	3603.51	25.68		0.00	0.00	25.68	3577.83
MW-22	06/08/02	3603.27	24.20		0.00	0.00	24.20	3579.07
	06/13/02	3603.27	24.41		0.00	0.00	24.41	3578.86
	06/15/02	3603.27	24.44		0.00	0.00	24.44	3578.83
	09/20/02	3603.27	24.59		0.00	0.00	24.59	3578.68
	10/15/02	3603.27	24.69		0.00	0.00	24.69	3578.58
	10/22/02	3603.27	24.67		0.00	0.00	24.67	3578.60
	10/25/02	3603.27	24.66		0.00	0.00	24.66	3578.61
	10/26/02	3603.27	24.70		0.00	0.00	24.70	3578.57
	11/04/02	3603.27	24.63		0.00	0.00	24.63	3578.64
	11/05/02	3603.27	24.55		0.00	0.00	24.55	3578.72
	11/22/02	3603.27	24.55		0.00	0.00	24.55	3578.72
	11/29/02	3603.27	24.51		0.00	0.00	24.51	3578.76
	12/16/02	3603.27	24.50		0.00	0.00	24.50	3578.77
	01/22/03	3603.27	24.40		0.00	0.00	24.40	3578.87
	02/08/03	3603.27	24.44		0.00	0.00	24.44	3578.83
	02/14/03	3603.27	24.45		0.00	0.00	24.45	3578.82
	02/24/03	3603.27	24.50		0.00	0.00	24.50	3578.77
	04/07/03	3603.27	24.67		0.00	0.00	24.67	3578.60
	04/24/03	3603.27	24.67		0.00	0.00	24.67	3578.60
	07/15/03	3603.27	25.00		0.00	0.00	25.00	3578.27
	08/02/03	3603.27	25.09		0.00	0.00	25.09	3578.18
	09/11/03	3603.27	25.16		0.00	0.00	25.16	3578.11
	10/15/03	3603.27	25.30		0.00	0.00	25.30	3577.97
	01/19/04	3603.27	25.60		0.00	0.00	25.60	3577.67
MW-23	06/08/02	3604.62	25.15		0.00	0.00	25.15	3579.47
	06/13/02	3604.62	25.13		0.00	0.00	25.13	3579.49
	06/15/02	3604.62	25.15		0.00	0.00	25.15	3579.47
	09/20/02	3604.62	25.30		0.00	0.00	25.30	3579.32
	10/15/02	3604.62	25.40		0.00	0.00	25.40	3579.22
	10/22/02	3604.62	25.38		0.00	0.00	25.38	3579.24
	10/25/02	3604.62	25.40		0.00	0.00	25.40	3579.22
	10/26/02	3604.62	25.39		0.00	0.00	25.39	3579.23
	11/04/02	3604.62	25.40		0.00	0.00	25.40	3579.22
	11/05/02	3604.62	25.40		0.00	0.00	25.40	3579.22
	11/22/02	3604.62	25.41		0.00	0.00	25.41	3579.21
	11/29/02	3604.62	25.34		0.00	0.00	25.34	3579.28
	12/16/02	3604.62	25.15		0.00	0.00	25.15	3579.47

Table 1
Water Level Measurements
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico
(all measurements in feet)

Well Number	Sample Date	Casing Elevation	Depth to Water	Depth to L.P.H.	L.P.H. Thickness	L.P.H. Thickness X 0.8	Adjusted Depth to Water	Groundwater Elevation
MW-23 cont.	01/22/03	3604.62	25.15		0.00	0.00	25.15	3579.47
	02/08/03	3604.62	25.17		0.00	0.00	25.17	3579.45
	02/14/03	3604.62	25.26		0.00	0.00	25.26	3579.36
	02/24/03	3604.62	25.40		0.00	0.00	25.40	3579.22
	04/07/03	3604.62	25.45		0.00	0.00	25.45	3579.17
	04/24/03	3604.62	25.48		0.00	0.00	25.48	3579.14
	07/15/03	3604.62	25.70		0.00	0.00	25.70	3578.92
	08/02/03	3604.62	25.77		0.00	0.00	25.77	3578.85
	09/11/03	3604.62	25.85		0.00	0.00	25.85	3578.77
	10/15/03	3604.62	26.02		0.00	0.00	26.02	3578.60
	01/19/04	3604.62	26.31		0.00	0.00	26.31	3578.31
SVE-10	06/15/02	3605.12	25.24		0.00	0.00	25.24	3579.88
	11/04/02	3605.12	25.43		0.00	0.00	25.43	3579.69
	11/05/02	3605.12	25.44		0.00	0.00	25.44	3579.68
	11/22/02	3605.12	25.58		0.00	0.00	25.58	3579.54
	11/29/02	3605.12	25.63		0.00	0.00	25.63	3579.49
	12/16/02	3605.12	25.68		0.00	0.00	25.68	3579.44
	01/22/03	3605.12	25.70		0.00	0.00	25.70	3579.42
	02/08/03	3605.12	25.73		0.00	0.00	25.73	3579.39
	02/14/03	3605.12	25.70		0.00	0.00	25.70	3579.42
	02/24/03	3605.12	25.73		0.00	0.00	25.73	3579.39
	04/07/03	3605.12	25.93		0.00	0.00	25.93	3579.19
	04/24/03	3605.12	25.84		0.00	0.00	25.84	3579.28
	07/15/03	3605.12	25.86		0.00	0.00	25.86	3579.26
	08/02/03	3605.12	25.93		0.00	0.00	25.93	3579.19
	10/15/03	3605.12	25.94		0.00	0.00	25.94	3579.18
	01/19/04	3605.12	26.79		0.00	0.00	26.79	3578.33

Notes:

L.P.H. = Liquid Phase Hydrocarbon

NM = Not Measured

Blank Fields Indicate No Data

Table 2a
Summary of Groundwater Analytical Data - Organics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)
MW-4	07/14/03	54.9	45.7	4.7	11.3	117	0.405	<0.10
MW-4	10/17/03	6.8	2.8	<1.0	<3.0	10	<0.10	0.59
MW-4	01/22/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-5	07/14/03	119	123	13.4	42.1	297.5	0.842	<0.10
MW-5	10/17/03	22	22	3.0	9.7	56.7	<0.10	0.99
MW-5	01/22/04	32	12	1.1	<3.0	45.1	0.16	<0.048
MW-12	07/14/03	3,900	316	357	575	5,148	17.1	0.598
MW-12	10/20/03	1,900	30	130	220	2,280	6.4	0.23
MW-12	01/21/04	2,700	130	300	450	3,580	12	0.25
MW-13	07/14/03	<1.00	<1.0	<1.0	<1.0	BDL	<0.10	0.112
MW-13	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.26
MW-13	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-14	07/14/03	56.6	<1.0	<1.0	<1.0	56.6	0.264	0.215
MW-14	10/20/03	<1.0	<1.0	<1.0	<3.0	BDL	0.11	0.14
MW-14	01/21/04	34	<1.0	<1.0	<3.0	34	0.18	0.12
MW-16	07/14/03	<1.00	<1.0	<1.0	<1.0	BDL	<0.10	0.276
MW-16	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.98
MW-16	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-17	07/14/03	<1.00	<1	<1	<1	BDL	<1.0	0.126
MW-18	07/14/03	589	<10	219	101	909	6.39	0.438
MW-18	10/20/03	300	2.3	<1.0	<3.0	302	1.9	0.13
MW-18	01/21/04	260	<1.0	130	73	463	4.3	0.11
MW-19	07/14/03	<1.00	<1.0	<1.0	<1.0	BDL	<0.10	<0.10
MW-19	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.17
MW-19	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-20	07/14/03	<1.00	<1.0	<1.0	<1.0	BDL	<0.10	0.10
MW-20	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.63
MW-20	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-21	07/14/03	<1.00	<1.0	<1.0	<1.0	BDL	<0.10	0.14
MW-21	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.75
MW-21	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-22	07/14/03	<1.00	<1.0	<1.0	<1.0	BDL	<0.10	<0.10
MW-22	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.35
MW-22	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
MW-23	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
MW-23	10/17/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.33
MW-23	01/21/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
SVE-10	07/14/03	189	29.8	26.9	85.6	331	1.74	0.991
SVE-10	10/20/03	<1.0	<1.0	<1.0	<3.0	BDL	0.42	0.46
SVE-10	01/22/04	1.7	1.0	2.0	<3.0	5	<0.10	0.42

Notes:

µg/L = micrograms per liter

mg/L = milligrams per liter

BDL = below detection limit

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	TEPH (mg/L)
MW-3	01/23/03	1,440	19	30	79	5.56	13.6
MW-4	01/13/00	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0
	04/06/00	19	0.83	1.2	3.2	<1.0	<1.0
	08/02/00	2	<0.5	<0.5	<2	<0.98	<0.98
	11/15/00	24	0.64	0.6	<2	0.52	<0.50
	03/06/01	110	1.6	9.4	16	1.7	<0.55
	06/25/01	66	0.73	1.3	<2	0.83	<0.59
	09/26/01	80	0.5	3.9	5.7	0.55	<0.50
	12/12/01	39	1.5	<1.00	<1.00	0.369	<0.101
	05/21/02	78	7.9	1.5	5.7	0.567	<0.103
	10/16/02	45	<1.0	2.5	5.3	0.177	<0.102
	01/23/03	268	160	7.5	88.5	1.58	0.141
	04/25/03	589	372	16.1	114	2.4	0.159
	07/14/03	54.9	45.7	4.7	11.3	0.405	<0.10
	10/17/03	6.8	2.8	<1.0	<3.0	<0.10	0.59
	01/22/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
MW-5	01/13/00	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0
	04/06/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/02/00	<0.5	<0.5	<0.5	<2	<0.99	<0.99
	11/15/00	1.2	0.78	<0.5	<2	0.26	0.92
	03/06/01	8.1	7	0.65	<2	0.66	<0.54
	06/25/01	19	26	2.3	<2	0.87	<0.53
	09/26/01	85	46	2.8	18	0.76	<0.50
	12/12/01	164	106	7.3	50	1.42	<0.101
	05/21/02	146	119	11.1	32	1.23	<0.101
	10/16/02	273	179	<10	42	1.60	0.188
	01/23/03	1,980	1,480	68	594	10	0.548
	04/25/03	1,190	863	58	318	6.37	0.256
	07/14/03	119	123	13.4	42.1	0.842	<0.10
	10/17/03	22	22	3	9.7	<0.10	0.99
	01/22/04	32	12	1.1	<3.0	0.16	<0.048
MW-6	01/13/00	3,300	2,000	240	580	<2.0	<2.0
	04/06/00	3,900	1,100	270	540	<1.0	<1.0
MW-8	01/13/00	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0
	04/06/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/02/00	<0.5	<0.5	<0.5	<2	<0.94	<0.94
	11/15/00	<0.5	<0.5	<0.5	<2	<1.0	0.86
	03/06/01	<0.5	<0.5	<0.5	<2	<1.0	<0.54
	06/25/01	<0.5	<0.5	<0.5	<2	<0.10	<0.55
	09/26/01	54	0.6	<0.5	2.4	0.24	<0.50
	12/12/01	593	18	8.5	48	1.56	0.107
	05/21/02	912	56.9	50	91.7	2.90	<0.101
	10/16/02	NA	NA	NA	NA	NA	0.269
	01/22/03	2,520	406	252	398	10.5	1.73
MW-10	01/13/00	4,100	490	440	720	<2.0	<2.0
	04/06/00	400	53	66	98	<1.0	<1.0
	08/02/00	220	12	27	55	<1.10	<1.10

Table 2b
Groundwater Analytical Data - Organics
ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	TEPH (mg/L)
MW-11	04/06/00	4,100	2,400	290	420	1.60	1.60
	08/02/00	3,900	2,100	260	510	2.50	2.50
	11/15/00	4,800	2,500	220	350	30	<0.53
	03/06/01	5,300	3,400	340	580	41	0.59
	06/25/01	5,100	3,700	340	<40	49	0.87
MW-12	04/06/00	2,000	200	110	200	<1.20	<1.20
	08/02/00	2,900	22	97	160	<0.97	<0.97
	11/15/00	4,100	87	170	220	21	1.40
	03/06/01	4,300	120	210	290	24	<0.56
	06/25/01	4,100	120	220	<40	30	1.10
	09/26/01	3,300	120	150	200	19	0.85
	12/12/01	3,520	290	258	376	18.5	0.285
	05/21/02	4,040	265	195	284	16.4	0.104
	10/16/02	NA	NA	NA	NA	NA	0.351
	01/23/03	3,610	346	261	437	20.1	0.442
	04/25/03	3,510	202	78	437	13.2	0.594
	07/14/03	3,900	316	357	575	17.1	0.598
	10/20/03	1,900	30	130	220	6.40	0.23
	01/21/04	2,700	130	300	450	12	0.25
MW-13	06/02/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/02/00	<0.5	<0.5	<0.5	<2	<0.99	<0.99
	11/15/00	<0.5	<0.5	<0.5	<2	<0.10	1.10
	03/06/01	<0.5	<0.5	<0.5	<2	<0.10	0.50
	06/25/01	480	1	<0.5	<2	2	<0.53
	09/26/01	<0.5	<0.5	<0.5	<2	<0.10	<0.51
	12/12/01	<1.00	<1.00	<1.00	<1.00	<0.10	0.132
	05/21/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	10/16/02	NA	NA	NA	NA	NA	<0.102
	01/22/03	<1	<1	<1	<1	<0.10	<0.105
	04/24/03	<1	<1	<1	<1	<0.10	<0.105
	07/14/03	<1.00	<1.0	<1.0	<1.0	<0.10	0.112
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.26
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
MW-14	06/02/00	370	5.3	1.7	11	<1.0	<1.0
	08/02/00	760	1.9	2.9	13	<1.0	<1.0
	11/15/00	840	0.9	<0.5	11	2.6	1.5
	03/06/01	730	<2.5	<2.5	11	2.8	<0.56
	06/25/01	340	0.82	<0.5	<2	1.4	NS
	09/26/01	370	<1.0	<1.0	<4.0	0.96	<0.50
	12/12/01	393	<10	<10	<10	0.89	0.148
	05/21/02	42.1	<1.00	<1.00	<1.00	<0.10	<0.101
	10/16/02	228	<1.00	<1.00	<1.00	0.629	0.206
	01/23/03	130	<1.00	<1.00	<1.00	0.375	0.108
	04/25/03	24.9	<1.00	<1.00	<1.00	0.10	0.104
	07/14/03	56.6	<1.0	<1.0	<1.0	0.264	0.215
	10/20/03	<1.0	<1.0	<1.0	<3.0	0.11	0.14
	01/21/04	34	<1.0	<1.0	<3.0	0.18	0.12

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	TEPH (mg/L)
MW-15	06/02/00	830	770	130	170	2.1	2.1
	08/02/00	330	250	42	52	2.8	2.8
	11/15/00	2,000	2,000	470	650	29	3.0
MW-16	06/02/00	0.94	0.96	21	6.9	<1.0	<1.0
	08/02/00	<0.5	<0.5	13	<2	<1.0	<1.0
	11/15/00	<0.5	1.10	4	<2	0.20	<0.50
	03/06/01	<0.5	1.20	7.6	<2	0.31	<0.56
	06/25/01	<0.5	<0.5	<0.5	<2	0.30	<0.56
	09/26/01	<0.5	1.20	<0.5	<2	0.19	<0.50
	12/12/01	1.80	<1.00	<1.00	<1.00	0.132	0.248
	05/21/02	1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	10/15/02	NA	NA	NA	NA	NA	NA
	01/22/03	1.00	<1	<1	<1	<0.10	0.124
	04/24/03	<1	<1	<1	<1	<0.10	0.124
	07/14/03	<1.00	<1.0	<1.0	<1.0	<0.10	0.276
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.98
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
MW-17	06/02/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/02/00	6	<0.5	9.3	<2	<0.97	<0.97
	11/15/00	3.9	1.9	5.4	2.1	0.65	5.6
	03/06/01	6.8	1.9	39	14	0.98	<0.54
	06/25/01	1.3	<0.5	0.7	<2	0.44	NS
	09/26/01	1.4	2.2	1.2	<2	0.49	<0.50
	12/12/01	8	<1.00	50.4	40.1	1.12	1.82
	05/21/02	4	<1.00	1.8	<1.00	0.423	0.834
	10/15/02	<1.00	<1.00	<1.00	<1.00	0.105	NA
	01/22/03	<1	<1	<1	<1	<1.0	0.124
	04/24/03	<1	<1	<1	<1	<1.0	0.124
	07/14/03	<1.00	<1	<1	<1	<1.0	0.126
MW-18	06/02/00	600	0.66	120	45	<1.0	<1.0
	08/02/00	780	<0.5	150	46	<0.99	<0.99
	11/15/00	850	0.94	93	50	4.60	1.10
	03/06/01	840	<2.5	160	65	8.70	<0.55
	06/25/01	660	2.6	150	<2	1.0	0.59
	09/26/01	500	<5.0	93	39	4.4	<0.51
	12/12/01	529	<10	127	54	4.05	0.261
	05/21/02	483	<1.00	105	52	4.48	<0.101
	10/16/02	NA	NA	NA	NA	NA	0.174
	01/23/03	121	<1	11	16.2	1.86	<0.10
	04/25/03	591	<1	135	61.1	4.08	0.183
	07/14/03	589	<10	219	101	6.39	0.438
	10/20/03	300	2.3	<1.0	<3.0	1.90	0.13
	01/21/04	260	<1.0	130	73	4.30	0.11

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	TEPH (mg/L)
MW-19	06/02/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/02/00	1.8	6.3	<0.5	11.2	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	<0.10	<0.51
	03/06/01	<0.5	<0.5	<0.5	<2	<0.10	<0.55
	06/25/01	<0.5	0.58	<0.5	<2	<0.10	<0.56
	09/26/01	<0.5	<0.5	<0.5	<2	<0.10	<0.54
	12/12/01	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	05/21/02	<1.00	<1.00	<1.00	<1.00	0.106	<0.101
	10/15/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	01/22/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/24/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.0	<1.0	<1.0	<0.10	<0.10
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.17
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
MW-20	06/02/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/02/00	4	3.8	4.1	12.7	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	<0.10	1.20
	03/06/01	<0.5	<0.5	<0.5	<2	<0.10	0.55
	06/25/01	<0.5	0.7	<0.5	<2	<0.10	<0.56
	09/26/01	<0.5	<0.5	<0.5	<2	<0.10	<0.52
	12/12/01	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	05/21/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	10/15/02	<1.00	<1.00	<1.00	<1.00	<0.10	NA
	01/22/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/24/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.0	<1.0	<1.0	<0.10	0.10
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.63
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
MW-21	06/13/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/15/02	NA	NA	NA	NA	NA	<0.105
	01/22/03	<1	<1	<1	<1	<0.10	<0.116
	04/24/03	<1	<1	<1	<1	<0.10	<0.116
	07/14/03	<1.00	<1.0	<1.0	<1.0	<0.10	0.14
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.75
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
MW-22	06/13/02	NA	NA	NA	NA	NA	<0.10
	06/20/02	<1.0	<1.0	<1.0	<1.0	<0.10	<0.101
	10/15/02	<1.0	<1.0	<1.0	<1.0	<0.10	<0.102
	01/22/03	<1.0	<1.0	<1.0	<1.0	<0.10	<0.101
	04/24/03	<1.0	<1.0	<1.0	<1.0	<0.10	<0.101
	07/14/03	<1.00	<1.0	<1.0	<1.0	<0.10	<0.10
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.35
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	TEPH (mg/L)
MW-23	06/13/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/15/02	<1.00	<1.00	<1.00	<1.00	<0.10	0.353
	01/22/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	04/24/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.101
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/17/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.33
	01/21/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
SVE-10	01/23/03	1,120	136	188	331	8.89	0.961
	04/25/03	367	560	69	296	5.18	1.30
	07/14/03	189	29.8	26.9	85.6	1.74	0.991
	10/20/03	<1.0	<1.0	<1.0	<3.0	0.42	0.46
	01/22/04	1.7	1.0	2.0	<3.0	<0.10	0.42
SP-1	06/02/00	9.4	7.4	2.5	7	<1.0	<1.0

Notes:

µg/L = micrograms per liter

mg/L = milligrams per liter

NA= not analyzed

TVPH = Total Volatile Petroleum Hydrocarbons (TPH-GRO)

TEPH = Total Extractable Petroleum Hydrocarbons (TPH-DRO)

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
MW-3	01/23/03	176			
MW-4	01/13/00	210			
	04/06/00	180			
	08/02/00	140			
	11/15/00	180			
	03/06/01	180			
	06/25/01	200			
	09/26/01	180			
	12/12/01	158			
	05/21/02	144	569	1,330	51
	10/16/02	81			
	01/23/03	173			
	04/25/03	159			
	07/14/03	166			
	10/17/03	190			
	01/22/04	176			
MW-5	01/13/00	130			
	04/06/00	130			
	08/02/00	130			
	11/15/00	180			
	03/06/01	210			
	06/25/01	240			
	09/26/01	260			
	12/12/01	216			
	05/21/02	180	619	698	29
	10/16/02	51			
	01/23/03	187			
	04/25/03	173			
	07/14/03	184			
	10/17/03	192			
	01/22/04	179			
MW-6	01/13/00	230			
	04/06/00	200			
MW-8	01/13/00	160			
	04/06/00	90			
	08/02/00	84			
	11/15/00	100			
	03/06/01	87			
	06/25/01	75			
	09/26/01	72			
	12/12/01	85			
	05/21/02	104	546	638	76
	10/16/02	42.4			
	01/22/03	106			
MW-10	01/13/00	180			
	04/06/00	180			
	08/02/00	140			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
MW-11	04/06/00	310			
	08/02/00	270			
	11/15/00	300			
	03/06/01	280			
	06/25/01	290			
MW-12	04/06/00	190			
	08/02/00	150			
	11/15/00	190			
	03/06/01	180			
	06/25/01	190			
	09/26/01	180			
	12/12/01	169			
	05/21/02	180	864	2,050	478
	10/16/02	69.5			
	01/23/03	180			
	04/25/03	179			
	07/14/03	204			
	10/20/03	197			
	01/21/04	183			
MW-13	06/02/2000	91			
	08/02/2000	61			
	11/15/2000	63			
	03/06/2001	66			
	06/25/2001	200			
	09/26/2001	66			
	12/12/2001	69.5			
	05/21/02	58.5	617	563	23
	10/16/02	71.5			
	01/22/03	72.6			
	04/24/03	67.0			
	07/14/03	72.2			
	10/17/03	67.6			
	01/21/04	68.8			
MW-14	06/02/2000	180			
	08/02/2000	170			
	11/15/2000	190			
	03/06/2001	190			
	06/25/2001	200			
	09/26/2001	200			
	12/12/2001	197			
	05/21/02	162	745	3,290	342
	10/16/02	67			
	01/23/03	228			
	04/25/03	194			
	07/14/03	242			
	10/17/03	214			
	01/21/04	200			
MW-15	06/02/00	170			
	08/02/00	160			
	11/15/00	170			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
MW-16	06/02/00	220			
	08/02/00	210			
	11/15/00	210			
	03/06/01	240			
	06/25/01	240			
	09/26/01	67			
	12/12/01	172			
	05/21/02	159	540	2,940	83
	10/15/02	194			
	01/22/03	206			
	04/24/03	176			
	07/14/03	190			
	10/17/03	200			
	01/21/04	182			
MW-17	06/02/00	140			
	08/02/00	110			
	11/15/00	130			
	03/06/01	130			
	06/25/01	140			
	09/26/01	130			
	12/12/01	147			
	05/21/02	132	575	1,040	202
	10/15/02	149			
	01/22/03	76.7			
	04/24/03	84.3			
	07/14/03	143			
MW-18	06/02/00	190			
	08/02/00	160			
	11/15/00	210			
	03/06/01	190			
	06/25/01	210			
	09/26/01	190			
	12/12/01	182			
	05/21/02	184	1,070	2,930	374
	10/16/02	102			
	01/23/03	218			
	04/25/03	195			
	07/14/03	193			
	10/20/03	207			
	01/21/04	193			
MW-19	06/02/00	140			
	08/02/00	110			
	11/15/00	130			
	03/06/01	130			
	06/25/01	150			
	09/26/01	140			
	12/12/01	144			
	05/21/02	150	824	2,750	40
	10/15/02	180			
	01/22/03	177			
	04/24/03	161			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
MW-19 cont.	07/14/03	20.3			
	10/17/03	117			
	01/21/04	169			
MW-20	06/02/00	83			
	08/02/00	66			
	11/15/00	66			
	03/06/01	62			
	06/25/01	71			
	09/26/01	210			
	12/12/01	69			
	05/21/02	72	638	1,840	26
	10/15/02	85			
	01/22/03	83.6			
	04/24/03	77.0			
	07/14/03	85.8			
	10/17/03	76.8			
	01/21/04	74.6			
MW-21	06/13/02	832			
	10/15/02	857			
	01/22/03	806			
	04/24/03	414			
	07/14/03	853			
	10/17/03	886			
	01/21/04	782			
MW-22	06/13/02	76.5			
	10/15/02	86.5			
	01/22/03	85.7			
	04/24/03	77.0			
	07/14/03	82.0			
	10/17/03	82.8			
	01/21/04	79.4			
MW-23	06/13/02	63			
	10/15/02	36.2			
	01/22/03	58.5			
	04/24/03	130			
	07/14/03	64.6			
	10/17/03	59.2			
	01/21/04	61.3			
SVE-10	01/23/03	282			
	04/25/03	241			
	07/14/03	270			
	10/20/03	255			
	01/22/04	265			
SP-1	06/02/00	180			

Notes:

mg/L = milligrams per liter

µg/L = micrograms per liter

Blank Fields Indicate No Data

Table 2d
Summary of SVE Effluent Sample Data
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Sample ID = HOBBS EAST SVE EFFLUENT Sample Date = June 26, 2003	
Method 8260 Detected Analytes	Concentration in Air <i>(Results reported in mg/M³)</i>
Methylene chloride ⁽¹⁾	0.678
Benzene	4.76
Toluene	5.78
Ethylbenzene	0.786
m, p-Xylene	3.27
o-Xylene	0.104
n-propylbenzene	0.293
1,3,5-Trimethylbenzene	0.527
1,2,4-Trimethylbenzene	1.15
1,4-Dichlorobenzene ⁽¹⁾	0.382
Naphthalene ⁽¹⁾	0.935

Notes:

(1) = Analyte detected at similar concentration in both sample and method blank

mg/M³ = milligrams per cubic meter

SVE/Air Sparge Operations Data

ConocoPhillips

East Hobbs Junction

Hobbs, New Mexico

Date	Flow Rate PID (cfm)				Monitoring Point							
					Comments				(inches of water at wellhead)			
					MW-13	MW-16	MW-17	MW-19	MW-20	MW-21	MW-22	MW-23
10/17/02	Time	Delta T (hours)	Temp (°F)	Flow Rate (cfm)								
	5:00 PM	0	79	458	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
	6:00 PM	1	87	302	0.02	0.01	0.02	NM	NM	NM	0.01	NM
	7:00 PM	2	88	225	0.02	0.02	0.05	NM	NM	NM	0.02	NM
	10:00 PM	5	86	189	0.02	NM	0.07	NM	NM	NM	0.01	NM
10/18/02	7:00 AM	14	85	113	0.01	0.04	0.17	0.01	0.14	0.08	0.01	0.01
	9:00 AM	16	86	634	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11:00 AM	18	85	486	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00
	12:00 PM	19	86	492	0.00	0.00	0.30	0.00	0.20	0.00	NM	NM
	4:00 PM	23	85	512	NM	NM	NM	NM	NM	NM	NM	NM
10/21/02	7:00 AM	85	75	426	0.04	0.03	0.09	0.04	0.05	0.01	0.01	0.01
10/21/02	8:00 AM	86	77	423	NM	NM	NM	NM	NM	NM	NM	NM
10/21/02	sparging system online											
10/21/02	10:00 AM	85	75	426	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01
10/21/02	4:00 PM	91	88	235	0.00	0.03	0.02	0.01	0.01	0.01	0.02	0.02
10/22/02	9:00 AM	110	90	187	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01
10/22/02	10:00 AM	111	88	192	NM	NM	0.01	NM	NM	NM	NM	NM
10/22/02	1:00 PM	114	89	188	0.06	0.04	0.11	0.04	0.07	0.04	0.05	0.04
10/22/02	4:00 PM	117	88	167	0.06	0.04	0.12	NM	0.08	NM	NM	NM
10/23/02	9:00 AM	134	88	278	vacuum (sparge offline for previous 5 hours)							
10/23/02	9:00 AM	134			-0.04	-0.05	-0.11	NM	-0.07	-0.06	NM	NM
10/23/02	10:00 AM	135	87	343	NM	NM	NM	NM	NM	NM	NM	NM
10/23/02	1:00 PM	138	86	454	NM	NM	NM	NM	NM	NM	NM	NM
10/23/02	4:00 PM	141	84	378	+0.03	+0.02	+0.08	+0.03	+0.04	+0.03	+0.04	+0.01
10/24/02	10:00 AM	159	78	404	+0.02	+0.02	-0.06	+0.02	-0.03	+0.04	+0.01	-0.04
10/24/02	11:00 AM	160	79	386	NM	NM	NM	NM	NM	NM	NM	NM
10/24/02	1:00 PM	162	79	422	NM	NM	NM	NM	NM	NM	NM	NM

SVE/Air Sparge Operations Data
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Date	Flow					Monitoring Point									
	Time	Delta T (hours)	Temp (°F)	PID (ppm)	Rate (cfm)	Comments (inches of water at wellhead)	MW-13	MW-16	MW-17	Comments	MW-19	MW-20	MW-21	MW-22	MW-23
10/24/02	4:00 PM	165	80	410	875		+0.03	+0.06	+0.01	pressure/vacuum	+0.02	+0.09	+0.02	+0.01	-0.01
10/25/02	9:00 AM	182	82	287	875		+0.02	-0.06	-0.18	pressure/vacuum	+0.01	-0.08	+0.04	+0.01	-0.01
10/25/02	10:00 AM	183	83	351	875		NM	NM	NM		NM	NM	NM	NM	NM
10/25/02	2:00 PM	187	80	398	875		+0.03	+0.06	+0.01	pressure/vacuum	+0.02	+0.09	+0.02	+0.01	-0.01
SVE system offline from 8:00 pm Oct 26 to 11:00 am Nov 4, sparge system was online during the same period															
11/04/02	checked water knockout drum at 10:30 am - no fluid recovery, placed SVE system on line at 11:00 am														
11/04/02	11:05 AM	217	77	93	875										
11/04/02	11:15 AM	217	78	235	875		+0.07	+0.06	+0.30	pressure	+0.10	+0.15	+0.04	+0.06	+0.09
11/04/02	4:00 PM	222	79	589	875		-0.01	-0.02	-0.04	pressure/vacuum	-0.01	-0.02	-0.01	+0.01	+0.01
11/04/02	checked water knockout drum at 4:00 pm - no fluid recovery														
11/05/02	9:00 AM	239	79	907	875		+0.02	-0.02	-0.20	pressure/vacuum	+0.04	-0.08	-0.03	+0.02	-0.05
11/05/02	11:00 AM	241	82	612	870		NM	NM	NM		NM	NM	NM	NM	NM
11/05/02	5:00 PM	247	87	376	875		NM	NM	NM		NM	NM	NM	NM	NM
11/06/02	8:00 AM	262	84	345	875		NM	NM	NM		NM	NM	NM	NM	NM
11/06/02	10:00 AM	264	88	678	860		NM	NM	NM		NM	NM	NM	NM	NM
11/06/02	12:00 PM	266	89	280	870		NM	NM	NM		NM	NM	NM	NM	NM
11/06/02	free product recovery system online at 8:30 am, SVE wells 3, 4, 6, 7 offline to install vent lines, sparge system offline at 12:00 pm														
11/07/02	8:00 AM	286	86	443	865		NM	NM	NM		NM	NM	NM	NM	NM
11/07/02	sparge system online at 8:30 am														
11/07/02	10:00 AM	288	89	398	875		NM	NM	NM		NM	NM	NM	NM	NM
11/07/02	12:00 PM	290	89	387	870		NM	NM	NM		NM	NM	NM	NM	NM
11/07/02	7:00 PM	297	89	489	870		NM	NM	NM		NM	NM	NM	NM	NM
11/08/02	8:00 AM	310	86	612	865		NM	NM	NM		NM	NM	NM	NM	NM
11/08/02	12:00 PM	314	90	333	860		+0.03	-0.03	-0.17	pressure/vacuum	+0.03	-0.09	-0.03	+0.02	-0.02
11/08/02	SVE wells 3, 4, 6, 7 offline for vent line silicon seal drying														
11/08/02	4:00 PM	318	89	401	865		NM	NM	NM		NM	NM	NM	NM	NM

SVE/Air Sparge Operations Data

ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico

Date	Flow Rate PID Temp (°F) (ppm) (cfm)				Monitoring Point							
					Comments				(inches of water at wellhead)			
					MW-13	MW-16	MW-17	MW-19	MW-20	MW-21	MW-22	MW-23
11/08/02	checked water knockout drum at 4:00 pm - no fluid recovery											
11/15/02	8:50 AM	479	86	612	865							
11/15/02	9:00 AM	479	86	589	875							
11/15/02	12:00 PM	482	88	483	870							
11/15/02	1:00 PM	483	89	401	860							
11/15/02	5:00 PM	487	89	678	860							
11/22/02	checked water knockout drum at 5:00 pm - no fluid recovery (moist on bottom of knockout drum)											
11/22/02	7:00 AM	647	87	817	875							
11/22/02	12:00 PM	652	92	686	875							
11/22/02	2:00 PM	654	93	703	875							
11/22/02	4:00 PM	656	91	477	875							
11/22/02	6:00 PM	658	90	633	875							
11/29/02	12:00 PM	818	89	553	875							
11/29/02	1:00 PM	819	89	423	875							
11/30/02	11:00 AM	840	87	536	860							
11/30/02	12:00 PM	841	89	549	875							
11/30/02	1:00 PM	842	91	520	865							
12/09/02	3:00 PM	1060	NM	NM	NM							
12/09/02	4:00 PM	1061	NM	NM	NM							
12/16/02	checked water knockout drum - no fluid recovery											
12/16/02	7:00 AM	1220	72	432	870							
12/16/02	5:00 PM	1230	76	389	870							
12/17/02	7:00 AM	1244	78	444	875							
12/18/02	8:00 AM	1269	77	320	875							
12/19/02	4:00 PM	1301	76	464	875							
12/20/02	5:00 AM	1313	71	388	875							

SVE/Air Sparge Operations Data

ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico

Date	Flow					Monitoring Point						
	Time	Delta T (hours)	Temp (°F)	PID (ppm)	Rate (cfm)	Comments	MW-17	MW-19	MW-20	MW-21	MW-22	MW-23
(inches of water at wellhead)												
12/20/02	6:00 AM	1314	71	373	875	NM	NM	NM	NM	NM	NM	NM
12/20/02	1:00 PM	1321	74	458	875	NM	NM	NM	NM	NM	NM	NM
12/27/02	1:00 PM	1489	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
01/14/03	6:55 AM system offline due to unknown reason, placed system on line at approximately 6:55 am											
01/14/03	7:30 AM	1854	64	487	875	NM	NM	NM	NM	NM	NM	NM
01/14/03	1:00 PM	1859	71	274	855	ND	+0.01	-0.06	pressure/vacuum	-0.01	-0.03	-0.01 +0.01
01/15/03	8:00 AM	1878	77	334	870	NM	NM	NM	NM	NM	NM	NM
01/16/03	12:30 PM system off due to a faulty high water separator alarm, no water in water knockout drum, placed system on line											
01/16/03	1:00 PM	1902	73	408	875	NM	NM	NM	NM	NM	NM	NM
01/22/03	9:00 AM	2043	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
01/23/03	9:00 AM	2067	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
02/07/03	9:00 AM	2427	system offline due to a faulty high water separator alarm									
02/08/03	10:00 AM	2427	system off due to a faulty high water separator alarm, approximately 1/2 inch water in water knockout drum									
02/08/03	10:00 AM	2427	NA	NA	NA	sparge wells #1, #2, #3, #4, #5, #7, #8, #9, #12 offline						
02/08/03	SVE system offline on Feb 7 at 9:00 am (for approximately 25 hours)											
02/08/03	10:00 AM	2427	NA	NA	NA	+0.07	+0.13	+0.26	pressure	+0.07	+0.20	+0.11 +0.06 +0.03
02/08/03	1:00 PM	2427	63	267	875	SVE system on line						
02/08/03	3:00 PM	2429	72	624	865	+0.03	+0.06	+0.11	pressure	+0.04	+0.02	+0.04 +0.02 +0.01
	SVE system on line for 2 hours, had not yet reached system equilibrium											
02/13/03	10:00 AM	2548	system offline due to a faulty high water separator and high tank alarm									
02/14/03	SVE system offline on Feb 13 at 10:00 am (for approximately 24 hours)											
02/14/03	10:00 AM	2548	system off due to a faulty high water separator alarm, no water in water knockout separator tank									
02/14/03	10:00 AM	2548	NA	NA	NA	sparge wells #1, #2, #3, #4, #5, #6, #7, #8, #9, #12, #14 offline						
02/14/03	10:00 AM	2548	NA	NA	NA	+0.10	+0.05	+0.10	pressure	+0.08	+0.05	+0.11 +0.06 +0.03
02/14/03	12:00 PM	2550	NM	127	NM	SVE system on line at 11:50 am						
02/14/03	3:00 PM	2553	NM	223	NM	+0.08	+0.04	+0.09	pressure	+0.05	+0.05	+0.06 +0.03 +0.01

SVE/Air Sparge Operations Data

ConocoPhillips

East Hobbs Junction

Hobbs, New Mexico

Date	Monitoring Point													
	Flow Rate					Comments								
	Time	Delta T (hours)	Temp (°F)	PID (ppm)	Rate (cfm)	MW-13	MW-16	MW-17	MW-19	MW-20	MW-21	MW-22	MW-23	
02/14/03	SVE system on line for 3 hours, had not yet reached system equilibrium													
02/15/03	10:00 AM	2572	NM	204	NM	-0.01	-0.02	-0.05	pressure/vacuum	-0.01	-0.02	+0.02	-0.01	-0.01
02/24/03	8:00 AM	2786	51	327	875	-0.02	-0.02	-0.06	pressure/vacuum	-0.01	-0.04	+0.02	-0.01	-0.01
02/24/03	9:00 AM	2787	52	334	875	NM	NM	NM		NM	NM	NM	NM	NM
02/24/03	6:00 PM	2793	52	345	875	NM	NM	NM		NM	NM	NM	NM	NM
02/25/03	8:00 AM	2809	51	303	875	+0.09	ND	+0.10	pressure	+0.08	+0.04	+0.10	+0.03	+0.08
02/25/03	11:00 AM	2812	62	309	870	NM	NM	NM		NM	NM	NM	NM	NM
02/25/03	4:00 PM	2817	69	327	875	NM	NM	NM		NM	NM	NM	NM	NM
02/26/03	8:00 AM	2834	63	333	875	NM	NM	NM		NM	NM	NM	NM	NM
02/26/03	10:00 AM	2836	67	281	870	NM	+0.01	+0.06	pressure	NM	+0.05	+0.01	+0.01	NM
02/26/03	6:00 PM	2844	72	354	875	NM	NM	NM		NM	NM	NM	NM	NM
02/27/03	8:00 AM	2858	61	345	875	NM	NM	NM		NM	NM	NM	NM	NM
02/27/03	10:00 AM	2860	64	320	875	NM	NM	NM		NM	NM	NM	NM	NM
02/27/03	5:00 PM	2867	71	289	875	NM	NM	NM		NM	NM	NM	NM	NM
02/28/03	8:00 AM	2882	69	321	875	NM	NM	NM		NM	NM	NM	NM	NM
02/28/03	10:00 AM	2862	72	342	875	NM	NM	NM		NM	NM	NM	NM	NM
02/28/03	12:00 PM	2864	72	336	875	NM	NM	NM		NM	NM	NM	NM	NM
03/13/03	11:00 AM	3198	89	223	875	NM	NM	NM		NM	NM	NM	NM	NM
03/14/03	11:00 AM	3222	90	217	875	NM	NM	NM		NM	NM	NM	NM	NM
03/21/03	12:00 PM system offline due to a faulty high water separator and high tank alarm													
03/28/03	11:00 AM	3391	NM	NM	NM	placed system online								
03/29/03	11:00 AM	3415	NM	NM	NM	NM	NM	NM	pressure/vacuum	NM	NM	NM	NM	NM
04/07/03	11:00 AM	3623	92	234	875	+0.02	+0.01	+0.05		+0.03	+0.02	+0.10	+0.01	-0.01
04/08/03	12:00 PM	3648	89	217	875	NM	NM	NM		NM	NM	NM	NM	NM
04/08/03	5:00 PM	3653	89	173	875	NM	NM	NM		NM	NM	NM	NM	NM
04/09/03	12:00 PM	3672	92	188	875	NM	NM	NM		NM	NM	NM	NM	NM

SVE/Air Sparge Operations Data

ConocoPhillips

East Hobbs Junction

Hobbs, New Mexico

Date	Flow					Monitoring Point													
	Time	Delta T (hours)	Temp (°F)	PID (ppm)	Rate (cfm)	Comments (inches of water at wellhead)													
						MW-13	MW-16	MW-17	Comments		MW-19	MW-20	MW-21	MW-22	MW-23				
04/10/03	1:00 PM	3697	93	155	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/11/03	1:00 PM	3721	106	123	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/11/03	4:45 PM	3724	103	159	875	+0.02	+0.01	-0.10	pressure/vacuum	+0.01	+0.01	+0.02	-0.10	-0.02					
04/15/03	4:45 PM	3819	system offline due to faulty high water separator, possible power surge due to 90 hr mile winds																
04/18/03	3:00 PM	3819	NM	NM	NM	placed system online													
04/21/03	3:00 PM	3891	NM	NM	NM	system running													
04/25/03	3:00 PM	3987	NM	NM	NM	system running													
05/18/03	3:00 PM	4549	103	227	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
05/19/03	3:00 PM	4573	104	203	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
06/09/03	3:00 PM	5077	NM	NM	NM	system placed offline until NOI approval													
06/26/03	2:00 PM	5077	NM	150	NM	sampled effluent for 8260 for New Mexico Air Quality Bureau													
system ran for approximately 30 minutes before sampling for effluent, then turned system off																			
07/01/03	New Mexico Air Quality Bureau approved NOI, system offline for a period of 35 days from June 9 to July 14																		
07/14/03	10:00 AM	5077	NM	NM	NM	system placed back online													
07/15/03	10:00 AM	5101	NM	445	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
07/21/03	3:00 PM	5249	NM	297	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
07/22/03	3:00 PM	5273	NM	321	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
08/01/03	7:00 PM	5509	NM	248	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
08/24/03	3:00 PM	6608	NM	237	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
09/08/03	6:00 PM	6428	NM	237	NM	+0.02	+0.01	-0.02	pressure/vacuum	+0.05	+0.02	+0.02	-0.02	-0.01					
09/09/03	11:00 AM	6446	111	118	875	+0.02	+0.05	+0.07	pressure	+0.08	+0.01	+0.05	+0.02	+0.02					
09/10/03	11:00 AM	6469	115	85	870	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
09/10/03	2:00 PM	6472	119	121	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
09/10/03	3:00 PM	6473	121	134	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
09/11/03	11:00 AM	6493	112	118	870	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
09/12/03	11:00 AM	6517	109	126	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

SVE/Air Sparge Operations Data

ConocoPhillips
East Hobbs Junction
Hobbs, New Mexico

Date	Time	Delta T (hours)	Temp (°F)	PID (ppm)	Flow Rate (cfm)	Monitoring Point									
						MW-13	MW-16	MW-17	Comments	MW-19	MW-20	MW-21	MW-22	MW-23	
						(inches of water at wellhead)									
10/20/03	1:15 PM	7431	NM	50	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/24/03	3:30 PM	8273	NM	255	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
12/30/03	1:00 PM	9135	NM	155	875	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
01/29/04	3:00 PM	9857	86	147	873	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
02/16/04	4:20 PM	10290	90	142	849	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
02/25/04	4:00 PM	10506	82	116	861	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes:

PID = photo-ionization detector

ppm = parts per million

cfm = cubic feet per minute

NM = not measured

TABLE 3b
Summary of SVE System Emissions Data
 ConocoPhillips
 East Hobbs Junction
 Hobbs, New Mexico

Date	Total Time (days)	Effluent Concentration (ppm)	Flow Rate (scfm)	"SnapShot" Discharge (lbs/day)	Average Discharge for Period (lbs/day)	Incremental Discharge (lbs)	Cumulative Discharge (lbs)	Incremental Time (Days)
10/17/2002	0	246	875	62.71	62.71	62.71	62.71	0
10/18/2002	1	447	870	113.30	87.82	87.82	150.53	1
10/21/2002	4	377	875	96.10	105.03	315.08	465.61	3
10/22/2002	5	183	875	46.65	71.38	71.38	536.98	1
10/23/2002	6	363	875	92.53	69.59	69.59	606.58	1
10/24/2002	7	405	875	103.24	97.89	97.89	704.46	1
10/25/2002	8	345	875	87.95	95.59	95.59	800.06	1
11/04/2002	18	412	875	105.03	96.49	964.86	1764.91	10
11/05/2002	19	631	875	160.85	132.94	132.94	1897.85	1
11/06/2002	20	434	870	110.00	134.97	134.97	2032.82	1
11/07/2002	21	429	875	109.36	110.00	110.00	2142.82	1
11/08/2002	22	336	865	84.67	96.39	96.39	2239.21	1
11/15/2002	29	552	865	139.11	111.89	783.22	3022.43	7
11/22/2002	36	663	875	169.01	154.86	1084.03	4106.46	7
11/29/2002	43	488	875	124.40	146.70	1026.93	5133.39	7
11/30/2002	44	534	870	135.35	129.52	129.52	5262.90	1
12/16/2002	60	389	870	98.60	116.97	1871.54	7134.44	16
12/17/2002	61	444	875	113.18	106.17	106.17	7240.62	1
12/18/2002	62	320	875	81.57	97.38	97.38	7337.99	1
12/19/2002	63	464	875	118.28	99.93	99.93	7437.92	1
12/20/2002	64	373	875	95.08	106.68	106.68	7544.60	1
01/14/2003	89	380	865	95.76	94.88	2371.97	9916.58	25
01/15/2003	90	334	870	84.66	90.48	90.48	10007.06	1
01/16/2003	91	408	875	104.01	94.57	94.57	10101.63	1
02/08/2003	114	445	870	112.79	108.10	2486.31	12587.94	23
02/14/2003	120	175	875	44.61	79.02	474.14	13062.08	6
02/24/2003	130	335	875	85.40	65.00	650.03	13712.12	10
02/25/2003	131	313	870	79.33	82.12	82.12	13794.24	1
02/26/2003	132	322	875	82.08	80.94	80.94	13875.17	1
02/27/2003	133	318	875	81.06	81.57	81.57	13956.75	1
02/28/2003	134	339	875	86.42	83.74	83.74	14040.49	1
03/13/2003	147	223	875	56.85	71.63	931.21	14971.69	13
03/14/2003	148	217	875	55.32	56.08	56.08	15027.78	1
04/07/2003	172	234	875	59.65	57.48	1379.60	16407.38	24
04/08/2003	173	195	875	49.71	54.68	54.68	16462.06	1
04/09/2003	174	188	875	47.92	48.82	48.82	16510.87	1
04/10/2003	175	155	875	39.51	43.72	43.72	16554.59	1
04/11/2003	176	141	875	35.94	37.73	37.73	16592.32	1
05/18/2003	213	227	875	57.87	46.90	1735.47	18327.79	37
05/19/2003	214	203	875	51.75	54.81	54.81	18382.59	1
06/09/2003	235	0	0	0.00	0.00	0.00	18382.59	21
07/14/2003	270	0	0	0.00	0.00	0.00	18382.59	35
07/15/2003	271	445	875	113.44	56.72	56.72	18439.31	1
07/21/2003	277	297	875	75.71	94.57	567.44	19006.75	6
07/22/2003	278	321	875	81.83	78.77	78.77	19085.52	1
08/01/2003	288	248	875	63.22	72.52	725.24	19810.76	10
08/24/2003	311	237	875	60.42	61.82	1421.79	21232.55	23
09/09/2003	327	119	875	30.33	45.37	726.00	21958.55	16
09/10/2003	328	134	875	34.16	32.25	32.25	21990.80	1
09/11/2003	329	118	870	29.91	31.94	31.94	22022.73	1
09/12/2003	330	126	875	32.12	31.10	31.10	22053.83	1
10/20/2003	368	50	875	12.75	22.43	852.44	22906.27	38
11/24/2003	403	255	875	65.00	38.87	1360.61	24266.88	35
12/30/2003	439	155	875	39.51	52.26	1881.28	26148.16	36
01/29/2004	469	147	873	37.39	38.40	1152.13	27300.29	30
02/16/2004	487	142	849	35.12	35.74	643.33	27943.62	18
02/25/2004	495	116	861	29.10	32.36	291.22	28234.84	9
Estimated average pounds per day removed:			57.04	Year total tons VOCs removed (Oct 2003-Oct 2004):			11.45	
Estimated total pounds VOCs removed:			28,234.84	Cumulative tons VOCs removed since startup:			14.12	

Notes and Calculations:

VOC Discharge (lbs/day) = ((C_o*78 g/mole)/24.05)(1 g/1000 mg)(1 m³/35.31 cf)(1 lb/454 g)(Q*1440 min/day)

Where: C_o = Average effluent VOC concentration in parts per million (ppm) from previous time period

Q = flow rate of effluent air in standard cubic feet per minute (scfm)

24.05 = gas law constant

APPENDIX A
Laboratory Analytical Data

7/21/03

HIGGINS AND ASSOCIATES 9898

8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: HOBBS EAST

Project Number: .

Laboratory Project Number: 339464.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Page 1

Sample Identification	Lab Number	Collection Date
MW-17	03-A109340	7/14/03
MW-20	03-A109341	7/14/03
MW-16	03-A109342	7/14/03
MW-21	03-A109343	7/14/03
MW-22	03-A109344	7/14/03
MW-23	03-A109345	7/14/03
MW-19	03-A109346	7/14/03
MW-13	03-A109347	7/14/03
MW-14	03-A109348	7/14/03
MW-18	03-A109349	7/14/03
MW-5	03-A109350	7/14/03
MW-4	03-A109351	7/14/03
SVE-10	03-A109352	7/14/03
MW-12	03-A109353	7/14/03

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Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By:



Report Date: 7/21/03

Ashley Morris, Lab Director

Michael H. Dunn, M.S., QA/QC Director

Johnny A. Mitchell, Operations Manager Organics

Eric S. Smith, Assistant Technical Director

Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.

Glenn L. Norton, Technical Serv.

Kelly S. Comstock, Technical Serv.

Pamela A. Langford, Technical Serv.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109340
Sample ID: MW-17
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	2:10	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	2:10	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	2:10	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	2:10	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	2:10	D.Ramey	8015B	5729
TPH (Diesel Range)	126.	ug/L	100.	1.0	7/17/03	9:39	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	143.	mg/L	20.0	20.0	7/16/03	21:51	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	980. ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	99.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	101.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109340

Sample ID: MW-17

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109341
Sample ID: MW-20
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	2:41	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	2:41	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	2:41	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	2:41	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	2:41	D.Ramey	8015B	5729
TPH (Diesel Range)	100.	ug/L	100.	1.0	7/17/03	9:59	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	85.8	mg/L	20.0	20.0	7/16/03	21:52	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	100.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109341

Sample ID: MW-20

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109342
Sample ID: MW-16
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	3:12	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	3:12	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	3:12	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	3:12	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	3:12	D.Ramey	8015B	5729
TPH (Diesel Range)	276.	ug/L	100.	1.0	7/17/03	10:19	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	190.	mg/L	20.0	20.0	7/16/03	21:52	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	89.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	102.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109342

Sample ID: MW-16

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109343
Sample ID: MW-21
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	3:42	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	3:42	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	3:42	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	3:42	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	3:42	D.Ramey	8015B	5729
TPH (Diesel Range)	140.	ug/L	100.	1.0	7/17/03	10:39	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	853.	mg/L	100.	100.	7/16/03	22:21	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	96.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109343

Sample ID: MW-21

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109344
Sample ID: MW-22
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	4:13	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	4:13	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	4:13	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	4:13	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	4:13	D.Ramey	8015B	5729
TPH (Diesel Range)	ND	ug/L	100.	1.0	7/17/03	10:59	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	82.0	mg/L	20.0	20.0	7/16/03	21:53	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	115.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109344

Sample ID: MW-22

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109345
Sample ID: MW-23
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	4:44	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	4:44	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	4:44	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	4:44	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	4:44	D.Ramey	8015B	5729
TPH (Diesel Range)	ND	ug/L	100.	1.0	7/17/03	11:19	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	64.6	mg/L	10.0	10.0	7/16/03	23:13	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	100.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109345

Sample ID: MW-23

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109346
Sample ID: MW-19
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	5:14	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	5:14	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	5:14	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	5:14	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	5:14	D.Ramey	8015B	5729
TPH (Diesel Range)	ND	ug/L	100.	1.0	7/17/03	11:38	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	20.3	mg/L	1.00	1.0	7/16/03	20:36	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	111.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109346

Sample ID: MW-19

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109347
Sample ID: MW-13
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	ND	ug/L	1.00	1.0	7/18/03	5:45	D.Ramey	8021B	5729
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	5:45	D.Ramey	8021B	5729
Toluene	ND	ug/L	1.0	1.0	7/18/03	5:45	D.Ramey	8021B	5729
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	5:45	D.Ramey	8021B	5729
TPH (Gasoline Range)	ND	ug/L	100.	1.0	7/18/03	5:45	D.Ramey	8015B	5729
TPH (Diesel Range)	112.	ug/L	100.	1.0	7/17/03	11:58	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	72.2	mg/L	20.0	20.0	7/16/03	21:54	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	106.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109347

Sample ID: MW-13

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109348
Sample ID: MW-14
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	56.6	ug/L	1.00	1.0	7/18/03	10:20	D.Ramey	8021B	7727
Ethylbenzene	ND	ug/L	1.0	1.0	7/18/03	10:20	D.Ramey	8021B	7727
Toluene	ND	ug/L	1.0	1.0	7/18/03	10:20	D.Ramey	8021B	7727
Xylenes (Total)	ND	ug/L	1.0	1.0	7/18/03	10:20	D.Ramey	8021B	7727
TPH (Gasoline Range)	264.	ug/L	100.	1.0	7/18/03	10:20	D.Ramey	8015B	7727
TPH (Diesel Range)	215.	ug/L	100.	1.0	7/18/03	12:18	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	242.	mg/L	20.0	20.0	7/16/03	21:55	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	91.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	93.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109348

Sample ID: MW-14

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109349
Sample ID: MW-18
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	589.	ug/L	10.0	10.0	7/19/03	2:04	I. Ahmed	8021B	7405
Ethylbenzene	219.	ug/L	10.0	10.0	7/19/03	2:04	I. Ahmed	8021B	7405
Toluene	ND	ug/L	10.0	10.0	7/19/03	2:04	I. Ahmed	8021B	7405
Xylenes (Total)	101.	ug/L	10.0	10.0	7/19/03	2:04	I. Ahmed	8021B	7405
TPH (Gasoline Range)	6390	ug/L	1000	10.0	7/19/03	2:04	I. Ahmed	8015B	7405
TPH (Diesel Range)	438.	ug/L	100.	1.0	7/18/03	1:37	M. Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	193.	mg/L	20.0	20.0	7/16/03	21:55	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	96.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	114.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109349

Sample ID: MW-18

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109350
Sample ID: MW-5
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	119.	ug/L	1.00	1.0	7/19/03	2:35	I. Ahmed	8021B	7405
Ethylbenzene	13.4	ug/L	1.0	1.0	7/19/03	2:35	I. Ahmed	8021B	7405
Toluene	123.	ug/L	1.0	1.0	7/19/03	2:35	I. Ahmed	8021B	7405
Xylenes (Total)	42.1	ug/L	1.0	1.0	7/19/03	2:35	I. Ahmed	8021B	7405
TPH (Gasoline Range)	842.	ug/L	100.	1.0	7/19/03	2:35	I. Ahmed	8015B	7405
TPH (Diesel Range)	ND	ug/L	100.	1.0	7/18/03	1:57	M. Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	184.	mg/L	20.0	20.0	7/16/03	21:57	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	102.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	112.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109350
Sample ID: MW-5
Project:
Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109351
Sample ID: MW-4
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	54.9	ug/L	1.00	1.0	7/19/03	3:07	I. Ahmed	8021B	7405
Ethylbenzene	4.7	ug/L	1.0	1.0	7/19/03	3:07	I. Ahmed	8021B	7405
Toluene	45.7	ug/L	1.0	1.0	7/19/03	3:07	I. Ahmed	8021B	7405
Xylenes (Total)	11.3	ug/L	1.0	1.0	7/19/03	3:07	I. Ahmed	8021B	7405
TPH (Gasoline Range)	405.	ug/L	100.	1.0	7/19/03	3:07	I. Ahmed	8015B	7405
TPH (Diesel Range)	ND	ug/L	100.	1.0	7/18/03	2:17	M. Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	166.	mg/L	20.0	20.0	7/16/03	21:57	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	100.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	112.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109351

Sample ID: MW-4

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109352
Sample ID: SVE-10
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	189.	ug/L	1.00	1.0	7/19/03	10:51	I. Ahmed	8021B	8446
Ethylbenzene	26.9	ug/L	1.0	1.0	7/19/03	10:51	I. Ahmed	8021B	8446
Toluene	29.8	ug/L	1.0	1.0	7/19/03	10:51	I. Ahmed	8021B	8446
Xylenes (Total)	85.6	ug/L	1.0	1.0	7/19/03	10:51	I. Ahmed	8021B	8446
TPH (Gasoline Range)	1740	ug/L	100.	1.0	7/19/03	10:51	I. Ahmed	8015B	8446
TPH (Diesel Range)	991.	ug/L	100.	1.0	7/18/03	2:37	M.Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	270.	mg/L	20.0	20.0	7/16/03	21:57	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	96.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	127.	69. - 129.

sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109352

Sample ID: SVE-10

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

DRO liter pH 7.

End of Sample Report.

ANALYTICAL REPORT

HIGGINS AND ASSOCIATES 9898
8200 SOUTH AKRON ST, STE 120
CENTENNIAL, CO 80112

Lab Number: 03-A109353
Sample ID: MW-12
Sample Type: Water
Site ID: HOBBS EAST

Project:
Project Name: HOBBS EAST
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/16/03
Time Received: 8:10
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	3900	ug/L	50.0	50.0	7/19/03	11:22	I. Ahmed	8021B	8446
Ethylbenzene	357.	ug/L	10.0	10.0	7/19/03	4:09	I. Ahmed	8021B	7405
Toluene	316.	ug/L	10.0	10.0	7/19/03	4:09	I. Ahmed	8021B	7405
Xylenes (Total)	575.	ug/L	10.0	10.0	7/19/03	4:09	I. Ahmed	8021B	7405
TPH (Gasoline Range)	17100	ug/L	1000	10.0	7/19/03	4:09	I. Ahmed	8015B	7405
TPH (Diesel Range)	598.	ug/L	100.	1.0	7/18/03	2:57	M. Jarrett	8015B/3510	7080
MISCELLANEOUS CHEMISTRY									
Chloride	204.	mg/L	20.0	20.0	7/16/03	21:58	W. Choate	325.2	5559

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
EPH	1000 ml	1.00 ml	7/16/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
TPH Hi Surr., o-Terphenyl	103.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	113.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A109353

Sample ID: MW-12

Project:

Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS EAST

Page: 1

Laboratory Receipt Date: 7/16/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

UST ANALYSIS								
Benzene	mg/l	< 0.00100	0.0562	0.0500	112	60. - 143.	5729	03-A109344
Toluene	mg/l	< 0.0010	0.0542	0.0500	108	62. - 139.	5729	03-A109344
Toluene	mg/l	0.316	0.894	0.500	116	62. - 139.	7405	03-A109353
Ethylbenzene	mg/l	< 0.0010	0.0547	0.0500	109	61. - 138.	5729	03-A109344
Ethylbenzene	mg/l	0.357	0.927	0.500	114	61. - 138.	7405	03-A109353
Xylenes (Total)	mg/l	< 0.0010	0.110	0.100	110	59. - 137.	5729	03-A109344
Xylenes (Total)	mg/l	0.575	1.72	1.00	114	59. - 137.	7405	03-A109353
TPH (Gasoline Range)	mg/l	< 0.100	1.01	1.00	101	56. - 134.	5729	03-A109344
TPH (Gasoline Range)	mg/l	17.1	9.70	10.0	-74#	56. - 134.	7405	03-A109353
TPH (Diesel Range)	mg/l	< 0.100	1.28	1.00	128	35. - 130.	7080	blank
BTEX/GRO Surr., a,a,a-TFT	% Recovery				96	69 - 129	5729	
BTEX/GRO Surr., a,a,a-TFT	% Recovery				119	69 - 129	7405	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

UST PARAMETERS						
Benzene	mg/l	0.0562	0.0573	1.94	23.	5729
Toluene	mg/l	0.0542	0.0552	1.83	24.	5729
Toluene	mg/l	0.894	0.909	1.66	24.	7405
Ethylbenzene	mg/l	0.0547	0.0558	1.99	24.	5729
Ethylbenzene	mg/l	0.927	0.932	0.54	24.	7405
Xylenes (Total)	mg/l	0.110	0.112	1.80	25.	5729
Xylenes (Total)	mg/l	1.72	1.75	1.73	25.	7405
TPH (Gasoline Range)	mg/l	1.01	1.10	8.53	24.	5729
TPH (Gasoline Range)	mg/l	9.70	10.4	6.97	24.	7405

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS EAST

Page: 2

Laboratory Receipt Date: 7/16/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
TPH (Diesel Range)	mg/l	1.28	0.917	33.05	41.	7080
BTEX/GRO Surr., a,a,a-TFT	% Recovery		100.			5729
BTEX/GRO Surr., a,a,a-TFT	% Recovery		119.			7405

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.106	106	74 - 120	5729
Benzene	mg/l	0.100	0.109	109	74 - 120	7727
Benzene	mg/l	0.100	0.100	100	74 - 120	7405
Benzene	mg/l	0.100	0.105	105	74 - 120	8446
Toluene	mg/l	0.100	0.102	102	73 - 118	5729
Toluene	mg/l	0.100	0.105	105	73 - 118	7727
Toluene	mg/l	0.100	0.101	101	73 - 118	7405
Toluene	mg/l	0.100	0.104	104	73 - 118	8446
Ethylbenzene	mg/l	0.100	0.101	101	72 - 118	5729
Ethylbenzene	mg/l	0.100	0.104	104	72 - 118	7727
Ethylbenzene	mg/l	0.100	0.0998	100	72 - 118	7405
Ethylbenzene	mg/l	0.100	0.104	104	72 - 118	8446
Xylenes (Total)	mg/l	0.200	0.206	103	72 - 116	5729
Xylenes (Total)	mg/l	0.200	0.210	105	72 - 116	7727
Xylenes (Total)	mg/l	0.200	0.200	100	72 - 116	7405
Xylenes (Total)	mg/l	0.200	0.208	104	72 - 116	8446
TPH (Gasoline Range)	mg/l	1.00	1.01	101	72 - 125	5729
TPH (Gasoline Range)	mg/l	1.00	1.10	110	72 - 125	7727
TPH (Gasoline Range)	mg/l	1.00	0.970	97	72 - 125	7405
TPH (Gasoline Range)	mg/l	1.00	0.970	97	72 - 125	8446

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS EAST

Page: 3

Laboratory Receipt Date: 7/16/03

BTEX/GRO Surr., a,a,a-TFT	% Recovery	94	69 - 129	5729
BTEX/GRO Surr., a,a,a-TFT	% Recovery	94	69 - 129	7727
BTEX/GRO Surr., a,a,a-TFT	% Recovery	111	69 - 129	7405
BTEX/GRO Surr., a,a,a-TFT	% Recovery	113	69 - 129	8446

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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UST PARAMETERS

TPH (Diesel Range)	mg/l	1.00	1.02	102	35 - 130	7080
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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MISC PARAMETERS

Chloride	mg/l	10.0	10.5	105	90 - 110	5559
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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
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Chloride	mg/l	3.15	3.03	3.88	15.	5559	03-A109373
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----

UST PARAMETERS

Benzene	< 0.00060	mg/l	5729	7/18/03	1:40
Benzene	< 0.00060	mg/l	7727	7/18/03	9:50
Benzene	< 0.00060	mg/l	7405	7/19/03	1:32
Benzene	< 0.00060	mg/l	8446	7/19/03	7:17

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS EAST

Page: 4

Laboratory Receipt Date: 7/16/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Toluene	< 0.0006	mg/l	5729	7/18/03	1:40
Toluene	< 0.0006	mg/l	7727	7/18/03	9:50
Toluene	< 0.0006	mg/l	7405	7/19/03	1:32
Toluene	< 0.0006	mg/l	8446	7/19/03	7:17
Ethylbenzene	< 0.0006	mg/l	5729	7/18/03	1:40
Ethylbenzene	< 0.0006	mg/l	7727	7/18/03	9:50
Ethylbenzene	< 0.0006	mg/l	7405	7/19/03	1:32
Ethylbenzene	< 0.0006	mg/l	8446	7/19/03	7:17
Xylenes (Total)	< 0.0010	mg/l	5729	7/18/03	1:40
Xylenes (Total)	< 0.0010	mg/l	7727	7/18/03	9:50
Xylenes (Total)	< 0.0010	mg/l	7405	7/19/03	1:32
Xylenes (Total)	< 0.0010	mg/l	8446	7/19/03	7:17
TPH (Gasoline Range)	< 0.0740	mg/l	5729	7/18/03	1:40
TPH (Gasoline Range)	< 0.0740	mg/l	7727	7/18/03	9:50
TPH (Gasoline Range)	< 0.0740	mg/l	7405	7/19/03	1:32
TPH (Gasoline Range)	< 0.0740	mg/l	8446	7/19/03	7:17
TPH (Diesel Range)	< 0.100	mg/l	7080	7/17/03	8:19

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
TPH Hi Surr., o-Terphenyl	106.	% Recovery	7080	7/17/03	8:19
BTEX/GRO Surr., a,a,a-TFT	105.	% Recovery	5729	7/18/03	1:40
BTEX/GRO Surr., a,a,a-TFT	104.	% Recovery	7727	7/18/03	9:50
BTEX/GRO Surr., a,a,a-TFT	111.	% Recovery	7405	7/19/03	1:32
BTEX/GRO Surr., a,a,a-TFT	109.	% Recovery	8446	7/19/03	7:17

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS EAST

Page: 5

Laboratory Receipt Date: 7/16/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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***MISC PARAMETERS**

Chloride	< 1.00	mg/l	5559	7/16/03	21:50
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= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 339464



COOLER RECEIPT FORM

BC#

Client: Higgins + Associates

Cooler Received On: 7/16/03 And Opened On: 7/16/03 By: Shawn Gracey

(Signature)

1. Temperature of Cooler when opened 2.0 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...NO...NA
a. If yes, how many, what kind and where: 2, Front/Back
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES...NO...NA
5. Were custody papers inside cooler?.....YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?.....YES...NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition (unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#, date, signed, pres, etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
If not, record standard ID of preservative used here _____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance:

Fed-Ex

UPS

Velocity

Airborne

Route

Off-street

Misc.

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

1

Method of Shipment:

Sample NonConformance/COC Revision Form

Initiated by:	Pbuckingham	Phone:		NC Closed	☒
Client Name:	Higgins	Sample Range:	109352	Date Closed	7/17/2003
Client Contact:		SDG:	339464		
Client Account:	9898	Analyst:			
Date Created:	7/17/2003	Supervisor:			
NC #:	109352	NC Type:			

Process: Other NC/Process: See Comment Section Below

Corrected By: nancy reed

Action: Corrected action not chosen

Closed: ☒ Nreed

Comments: Comment added by: Pbuckingham on 7/17/2003 1:57:57 PM
NC closed with out comments

Comment added by: Nreed on 7/17/2003 1:56:40 PM
client notified

DRO liter pH 7.

**STL****Certificate of Analysis**

STL Austin • 14046 Summit Drive, Austin, TX 78728 • Tel 512 244 0855 • Fax 512 244 0160 • www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. MIDLAND, TX

E HOBBS JCT QTRLY GWM

Lot #: I3J170173

Greg Pope

Maxim Technologies
1703 W Industrial Ave
Midland, TX 79701

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in cursive script that reads "Carla Butler".

Carla M. Butler
Project Manager

October 31, 2003
American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative**STL LOT NUMBER: I3J170173**

This report contains the analytical results for the 28 samples received under chain of custody by Severn Trent Laboratories (STL). These samples are associated with your E HOBBS JCT QTRLY GWM project.

All samples were received in good condition and within temperature requirements. Because not performed at time of collection, the pH analysis is flagged as out of hold time.

There was insufficient sample volume to prepare a Matrix Spike/Matrix Spike Duplicate for the DRO analysis. A duplicate Laboratory Control Sample was prepared to provide accuracy and precision measurements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Affected Samples:**I3J170173 (11): EW-1****8015B DRO**

Sample could not be concentrated down to the method required volume of 1.00mL due to matrix effect. The sample was concentrated to a final volume of 5.00mL.

Affected Samples:**I3J170173 (25): MW-16****8021B**

This sample was analyzed at 1X and had over calibration results for Benzene and high recoveries for the surrogate a,a,a-TFT due to demonstrated matrix effect. There was insufficient sample is to reanalyze.

EXECUTIVE SUMMARY - Detection Highlights

I3J170173

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
IW-3 10/15/03 18:00 001				
Chloride	99.1	20.0	mg/L	MCAWW 300.0A
IW-2 10/15/03 18:25 002				
Chloride	103	20.0	mg/L	MCAWW 300.0A
IW-4 10/16/03 09:45 003				
Chloride	141	20.0	mg/L	MCAWW 300.0A
IW-5 10/16/03 10:30 004				
Diesel Range Organics	0.086	0.048	mg/L	SW846 8015B
Chloride	166	20.0	mg/L	MCAWW 300.0A
MW-13 10/16/03 11:00 005				
Ethylbenzene	21	1.0	ug/L	SW846 8021B
Chloride	120	20.0	mg/L	MCAWW 300.0A
IW-6 10/16/03 12:40 006				
Diesel Range Organics	0.15	0.048	mg/L	SW846 8015B
Chloride	165	20.0	mg/L	MCAWW 300.0A
IW-7 10/16/03 13:15 007				
Diesel Range Organics	0.64	0.048	mg/L	SW846 8015B
Chloride	165	20.0	mg/L	MCAWW 300.0A
SVE-1 10/16/03 15:10 008				
Chloride	113	20.0	mg/L	MCAWW 300.0A
AFTER TOWER 10/16/03 16:15 010				
Diesel Range Organics	0.43	0.048	mg/L	SW846 8015B
Iron	0.63	0.10	mg/L	SW846 6010B
pH (liquid)	7.8 H	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	666	40.0	mg/L	MCAWW 160.1
Total Suspended Solids	10.8	10.0	mg/L	MCAWW 160.2

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I3J170173

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
AFTER TOWER 10/16/03 16:15 010				
Chloride	165	20.0	mg/L	MCAWW 300.0A
EW-1 10/16/03 16:25 011				
Diesel Range Organics	460	2.5	mg/L	SW846 8015B
Gasoline Range Organics	11	5.0	mg/L	SW846 8015B
Benzene	2800	50	ug/L	SW846 8021B
Ethylbenzene	690	50	ug/L	SW846 8021B
Toluene	1800	50	ug/L	SW846 8021B
Xylenes (total)	680	150	ug/L	SW846 8021B
Iron	0.22	0.10	mg/L	SW846 6010B
pH (liquid)	7.6 H	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	723	40.0	mg/L	MCAWW 160.1
Chloride	147	20.0	mg/L	MCAWW 300.0A
EW-2 10/16/03 16:35 012				
Diesel Range Organics	0.88	0.048	mg/L	SW846 8015B
Gasoline Range Organics	12	2.5	mg/L	SW846 8015B
Benzene	2800	50	ug/L	SW846 8021B
Ethylbenzene	440	50	ug/L	SW846 8021B
Toluene	2600	50	ug/L	SW846 8021B
Xylenes (total)	720	150	ug/L	SW846 8021B
Iron	0.22	0.10	mg/L	SW846 6010B
pH (liquid)	7.5 H	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	749	40.0	mg/L	MCAWW 160.1
Chloride	164	20.0	mg/L	MCAWW 300.0A
MW-20 10/17/03 10:55 013				
Diesel Range Organics	0.63	0.048	mg/L	SW846 8015B
Chloride	76.8	20.0	mg/L	MCAWW 300.0A
MW-16 10/17/03 11:30 014				
Diesel Range Organics	0.98	0.048	mg/L	SW846 8015B
Chloride	200	20.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I3J170173

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-21 10/17/03 11:55 015				
Diesel Range Organics	0.75	0.048	mg/L	SW846 8015B
Chloride	886	100	mg/L	MCAWW 300.0A
MW-4 10/17/03 12:30 016				
Diesel Range Organics	0.59	0.048	mg/L	SW846 8015B
Benzene	6.8	1.0	ug/L	SW846 8021B
Toluene	2.8	1.0	ug/L	SW846 8021B
Chloride	190	20.0	mg/L	MCAWW 300.0A
DISCHARGE 10/16/03 16:45 017				
pH (liquid)	7.8 H	0.10	No Units	MCAWW 150.1
Total Dissolved Solids	980	40.0	mg/L	MCAWW 160.1
Chloride	162	20.0	mg/L	MCAWW 300.0A
MW-5 10/17/03 14:10 018				
Diesel Range Organics	0.99	0.048	mg/L	SW846 8015B
Benzene	22	1.0	ug/L	SW846 8021B
Ethylbenzene	3.0	1.0	ug/L	SW846 8021B
Toluene	22	1.0	ug/L	SW846 8021B
Xylenes (total)	9.7	3.0	ug/L	SW846 8021B
Chloride	192	20.0	mg/L	MCAWW 300.0A
MW-23 10/17/03 14:40 019				
Diesel Range Organics	0.33	0.048	mg/L	SW846 8015B
Chloride	59.2	20.0	mg/L	MCAWW 300.0A
MW-22 10/17/03 15:10 020				
Diesel Range Organics	0.35	0.048	mg/L	SW846 8015B
Chloride	82.8	20.0	mg/L	MCAWW 300.0A
MW-13 10/17/03 15:40 021				
Diesel Range Organics	0.26	0.048	mg/L	SW846 8015B
Chloride	67.6	20.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I3J170173

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-19 10/17/03 16:05 022				
Diesel Range Organics	0.17	0.048	mg/L	SW846 8015B
Chloride	117	20.0	mg/L	MCAWW 300.0A
MW-14 10/20/03 14:45 023				
Diesel Range Organics	0.14	0.048	mg/L	SW846 8015B
Gasoline Range Organics	0.11	0.10	mg/L	SW846 8015B
Chloride	214	20.0	mg/L	MCAWW 300.0A
SVE-10 10/20/03 15:20 024				
Gasoline Range Organics	0.42	0.10	mg/L	SW846 8015B
Chloride	255	50.0	mg/L	MCAWW 300.0A
MW-16 10/20/03 16:15 025				
Diesel Range Organics	0.13	0.048	mg/L	SW846 8015B
Gasoline Range Organics	1.9	0.10	mg/L	SW846 8015B
Benzene	300 E	1.0	ug/L	SW846 8021B
Toluene	2.3	1.0	ug/L	SW846 8021B
Chloride	207	20.0	mg/L	MCAWW 300.0A
MW-12 10/20/03 17:10 026				
Diesel Range Organics	0.23	0.048	mg/L	SW846 8015B
Gasoline Range Organics	6.4	1.0	mg/L	SW846 8015B
Benzene	1900	20	ug/L	SW846 8021B
Ethylbenzene	130	20	ug/L	SW846 8021B
Toluene	30	20	ug/L	SW846 8021B
Xylenes (total)	220	60	ug/L	SW846 8021B
Chloride	197	20.0	mg/L	MCAWW 300.0A
SVE-10 10/23/03 14:50 028				
Diesel Range Organics	0.46	0.048	mg/L	SW846 8015B

ANALYTICAL METHODS SUMMARY

I3J170173

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
pH (Electrometric)	MCAWW 150.1
Chloride	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015B
Filterable Residue (TDS)	MCAWW 160.1
Non-Filterable Residue (TSS)	MCAWW 160.2
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

I3J170173

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 150.1	Jennifer Havalda	000029
MCAWW 160.1	Richard R. Updegraff	401136
MCAWW 160.2	Richard R. Updegraff	401136
MCAWW 300.0A	David A. Tocher	800002
SW846 6010B	Hamid Davoudi	038010
SW846 8015B	David Yancey	014906
SW846 8015B	David Yancey	14906
SW846 8015B	Ellen Grett	014902
SW846 8021B	David Yancey	014906

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I3J170173

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F2R6L	001	IW-3	10/15/03	18:00
F2R7L	002	IW-2	10/15/03	18:25
F2R71	003	IW-4	10/16/03	09:45
F2R72	004	IW-5	10/16/03	10:30
F2R74	005	MW-13	10/16/03	11:00
F2R75	006	IW-6	10/16/03	12:40
F2R77	007	IW-7	10/16/03	13:15
F2R79	008	SVE-1	10/16/03	15:10
F2R8C	009	TRIP BLANK	10/16/03	
F2WQL	010	AFTER TOWER	10/16/03	16:15
F2WQM	011	EW-1	10/16/03	16:25
F2WQN	012	EW-2	10/16/03	16:35
F2WQP	013	MW-20	10/17/03	10:55
F2WQV	014	MW-16	10/17/03	11:30
F2WQ0	015	MW-21	10/17/03	11:55
F2WQ4	016	MW-4	10/17/03	12:30
F2WQ5	017	DISCHAGRE	10/16/03	16:45
F2WQ6	018	MW-5	10/17/03	14:10
F2WQ7	019	MW-23	10/17/03	14:40
F2WQ8	020	MW-22	10/17/03	15:10
F2WRA	021	MW-13	10/17/03	15:40
F2WR7	022	MW-19	10/17/03	16:05
F25MT	023	MW-14	10/20/03	14:45
F25NA	024	SVE-10	10/20/03	15:20
F25ND	025	MW-16	10/20/03	16:15
F25NM	026	MW-12	10/20/03	17:10
F25NW	027	TRIP BLANK	10/20/03	
F3DRQ	028	SVE-10	10/23/03	14:50

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I3J170173

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
002	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
003	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
004	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
005	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
006	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
007	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
008	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254
009	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 8021B		3302547	3302254

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

I3J170173

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
010	WATER	MCAWW 150.1		3302704	3302316
	WATER	MCAWW 160.1		3294527	
	WATER	MCAWW 160.2		3294529	
	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 6010B		3294505	3294248
	WATER	SW846 8021B		3304302	3304148
011	WATER	MCAWW 150.1		3302704	3302316
	WATER	MCAWW 160.1		3294527	
	WATER	MCAWW 160.2		3294529	
	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304184	3304053
	WATER	SW846 6010B		3294505	3294248
	WATER	SW846 8021B		3302547	3302254
012	WATER	MCAWW 150.1		3302704	3302316
	WATER	MCAWW 160.1		3294527	
	WATER	MCAWW 160.2		3294529	
	WATER	MCAWW 300.0A		3303403	3303210
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 6010B		3294505	3294248
	WATER	SW846 8021B		3302547	3302254
013	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3302547	3302254
014	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094
015	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

I3J170173

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
016	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094
017	WATER	MCAWW 150.1		3302704	3302316
	WATER	MCAWW 160.1		3294527	
	WATER	MCAWW 160.2		3294529	
	WATER	MCAWW 300.0A		3302234	3302083
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 6010B		3294505	3294248
	WATER	SW846 8021B		3304221	3304094
018	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094
019	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094
020	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094
021	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3293348	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304302	3304148
022	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3293350	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304302	3304148
023	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3296317	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304398	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

I3J170173

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
024	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304398	
025	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3296317	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304398	
026	WATER	MCAWW 300.0A		3302233	3302082
	WATER	SW846 8015B		3296317	
	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304221	3304094
027	WATER	SW846 8015B		3304188	3304061
	WATER	SW846 8021B		3304398	
028	WATER	SW846 8015B		3300626	

CONOCOPHILLIPS

Client Sample ID: IW-3

GC Volatiles

Lot-Sample #....: I3J170173-001 Work Order #....: F2R6L1AA Matrix.....: WATER
Date Sampled...: 10/15/03 18:00 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: IW-3

GC Volatiles

Lot-Sample #....: I3J170173-001 Work Order #....: F2R6L1AD Matrix.....: WATER
Date Sampled....: 10/15/03 18:00 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	95	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	84	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: IW-3

GC Semivolatiles

Lot-Sample #....: I3J170173-001 Work Order #....: F2R6L1AC Matrix.....: WATER
Date Sampled....: 10/15/03 18:00 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	73	(28 - 131)
Dotriacontane	83	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-3

General Chemistry

Lot-Sample #....: I3J170173-001

Work Order #....: F2R6L

Matrix.....: WATER

Date Sampled....: 10/15/03 18:00

Date Received...: 10/17/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	99.1	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: IW-2

GC Volatiles

Lot-Sample #...: I3J170173-002 Work Order #...: F2R7L1AA Matrix.....: WATER
Date Sampled...: 10/15/03 18:25 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #...: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: IW-2

GC Volatiles

Lot-Sample #....: I3J170173-002 Work Order #....: F2R7L1AD Matrix.....: WATER
Date Sampled....: 10/15/03 18:25 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	91	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	83	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: IW-2

GC Semivolatiles

Lot-Sample #....: I3J170173-002 Work Order #....: F2R7L1AC Matrix.....: WATER
Date Sampled....: 10/15/03 18:25 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	80	(28 - 131)
Dotriacontane	101	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-2

General Chemistry

Lot-Sample #...: I3J170173-002 Work Order #...: F2R7L
Date Sampled...: 10/15/03 18:25 Date Received...: 10/17/03

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	103	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: IW-4

GC Volatiles

Lot-Sample #....: I3J170173-003 Work Order #....: F2R711AA Matrix.....: WATER
Date Sampled....: 10/16/03 09:45 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: IW-4

GC Volatiles

Lot-Sample #....: I3J170173-003 Work Order #....: F2R711AD Matrix.....: WATER
Date Sampled....: 10/16/03 09:45 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	95	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	84	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: IW-4

GC Semivolatiles

Lot-Sample #....: I3J170173-003 Work Order #....: F2R711AC Matrix.....: WATER
Date Sampled...: 10/16/03 09:45 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	87	(28 - 131)
Dotriacontane	88	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-4

General Chemistry

Lot-Sample #...: I3J170173-003 Work Order #...: F2R71
Date Sampled...: 10/16/03 09:45 Date Received...: 10/17/03

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	141	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: IW-5

GC Volatiles

Lot-Sample #....: I3J170173-004 Work Order #....: F2R721AA Matrix.....: WATER
Date Sampled....: 10/16/03 10:30 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: IW-5

GC Volatiles

Lot-Sample #....: I3J170173-004 Work Order #....: F2R721AD Matrix.....: WATER
Date Sampled....: 10/16/03 10:30 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	95	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	86	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: IW-5

GC Semivolatiles

Lot-Sample #...: I3J170173-004 Work Order #...: F2R721AC Matrix.....: WATER
Date Sampled...: 10/16/03 10:30 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #...: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.086	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	87	(28 - 131)
Dotriacontane	86	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-5

General Chemistry

Lot-Sample #....: I3J170173-004 Work Order #....: F2R72
Date Sampled....: 10/16/03 10:30 Date Received...: 10/17/03

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	166	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Volatiles

Lot-Sample #....: I3J170173-005 Work Order #....: F2R741AA Matrix.....: WATER
Date Sampled....: 10/16/03 11:00 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	112	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Volatiles

Lot-Sample #....: I3J170173-005 Work Order #....: F2R741AD Matrix.....: WATER
Date Sampled....: 10/16/03 11:00 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	21	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	115	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	90	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Semivolatiles

Lot-Sample #....: I3J170173-005 Work Order #....: F2R741AC Matrix.....: WATER
Date Sampled....: 10/16/03 11:00 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	108	(28 - 131)
Dotriacontane	106	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-13

General Chemistry

Lot-Sample #...: I3J170173-005 Work Order #...: F2R74 Matrix.....: WATER
Date Sampled...: 10/16/03 11:00 Date Received...: 10/17/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	120	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: IW-6

GC Volatiles

Lot-Sample #...: I3J170173-006 Work Order #...: F2R751AA Matrix.....: WATER
Date Sampled...: 10/16/03 12:40 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #...: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: IW-6

GC Volatiles

Lot-Sample #....: I3J170173-006 Work Order #....: F2R751AD Matrix.....: WATER
Date Sampled....: 10/16/03 12:40 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	94	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	85	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: IW-6

GC Semivolatiles

Lot-Sample #...: I3J170173-006 Work Order #...: F2R751AC Matrix.....: WATER
Date Sampled...: 10/16/03 12:40 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #...: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.15	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	81	(28 - 131)
Dotriacontane	83	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-6

General Chemistry

Lot-Sample #...: I3J170173-006

Work Order #...: F2R75

Matrix.....: WATER

Date Sampled...: 10/16/03 12:40

Date Received...: 10/17/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	165	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: IW-7

GC Volatiles

Lot-Sample #....: I3J170173-007 Work Order #....: F2R771AA Matrix.....: WATER
Date Sampled....: 10/16/03 13:15 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: IW-7

GC Volatiles

Lot-Sample #....: I3J170173-007 Work Order #....: F2R771AD Matrix.....: WATER
Date Sampled....: 10/16/03 13:15 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	91	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	83	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: IW-7

GC Semivolatiles

Lot-Sample #....: I3J170173-007 Work Order #....: F2R771AC Matrix.....: WATER
Date Sampled....: 10/16/03 13:15 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.64	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	123	(28 - 131)
Dotriacontane	134	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-7

General Chemistry

Lot-Sample #....: I3J170173-007 Work Order #....: F2R77 Matrix.....: WATER
Date Sampled....: 10/16/03 13:15 Date Received...: 10/17/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	165	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: SVE-1

GC Volatiles

Lot-Sample #....: I3J170173-008 Work Order #....: F2R791AA Matrix.....: WATER
Date Sampled....: 10/16/03 15:10 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: SVE-1

GC Volatiles

Lot-Sample #....: I3J170173-008 Work Order #....: F2R791AD Matrix.....: WATER
Date Sampled...: 10/16/03 15:10 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	94	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	86	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: SVE-1

GC Semivolatiles

Lot-Sample #...: I3J170173-008 Work Order #...: F2R791AC Matrix.....: WATER
Date Sampled...: 10/16/03 15:10 Date Received...: 10/17/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #...: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	107	(28 - 131)
Dotriacontane	106	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: SVE-1

General Chemistry

Lot-Sample #...: I3J170173-008 Work Order #...: F2R79 Matrix.....: WATER
Date Sampled...: 10/16/03 15:10 Date Received...: 10/17/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	113	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: I3J170173-009 Work Order #....: F2R8C1AA Matrix.....: WATER
Date Sampled....: 10/16/03 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: I3J170173-009 Work Order #....: F2R8C1AC Matrix.....: WATER
Date Sampled....: 10/16/03 Date Received...: 10/17/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	93	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	85	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: AFTER TOWER

GC Volatiles

Lot-Sample #....: I3J170173-010 Work Order #....: F2WQL1AA Matrix.....: WATER
Date Sampled....: 10/16/03 16:15 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: AFTER TOWER

GC Volatiles

Lot-Sample #....: I3J170173-010 Work Order #....: F2WQL2AD Matrix.....: WATER
Date Sampled....: 10/16/03 16:15 Date Received...: 10/18/03
Prep Date.....: 10/30/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304302
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	98	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	103	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: AFTER TOWER

GC Semivolatiles

Lot-Sample #....: I3J170173-010 Work Order #....: F2WQL1AC Matrix.....: WATER
Date Sampled....: 10/16/03 16:15 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.43	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	97	(28 - 131)
Dotriacontane	101	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: AFTER TOWER

TOTAL Metals

Lot-Sample #....: I3J170173-010

Matrix.....: WATER

Date Sampled....: 10/16/03 16:15 Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 3294505						
Iron	0.63	0.10	mg/L	SW846 6010B	10/21-10/22/03	F2WQL1AJ
Dilution Factor: 1						

CONOCOPHILLIPS

Client Sample ID: AFTER TOWER

General Chemistry

Lot-Sample #....: I3J170173-010

Work Order #....: F2WQL

Matrix.....: WATER

Date Sampled....: 10/16/03 16:15

Date Received...: 10/18/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.8 H	0.10	No Units	MCAWW 150.1	10/29/03	3302704
			Dilution Factor: 1			
Chloride	165	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234
			Dilution Factor: 20			
Total Dissolved Solids	666	40.0	mg/L	MCAWW 160.1	10/21/03	3294527
			Dilution Factor: 1			
Total Suspended Solids	10.8	10.0	mg/L	MCAWW 160.2	10/21/03	3294529
			Dilution Factor: 1			

NOTE(S) :

RL Reporting Limit

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

CONOCOPHILLIPS

Client Sample ID: EW-1

GC Volatiles

Lot-Sample #....: I3J170173-011 Work Order #....: F2WQM1AA Matrix.....: WATER
Date Sampled....: 10/16/03 16:25 Date Received...: 10/18/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3304184
Dilution Factor: 50 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	11	5.0	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	103	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: EW-1

GC Volatiles

Lot-Sample #....: I3J170173-011 Work Order #....: F2WQM1AD Matrix.....: WATER
Date Sampled...: 10/16/03 16:25 Date Received...: 10/18/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 50 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	2800	50	ug/L
Ethylbenzene	690	50	ug/L
Toluene	1800	50	ug/L
Xylenes (total)	680	150	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	89	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	87	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: EW-1

GC Semivolatiles

Lot-Sample #....: I3J170173-011 Work Order #....: F2WQM1AC Matrix.....: WATER
Date Sampled....: 10/16/03 16:25 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 50 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	460	2.5	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	NC, DIL	(28 - 131)
Dotriacontane	NC, DIL	(37 - 139)

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

CONOCOPHILLIPS

Client Sample ID: EW-1

TOTAL Metals

Lot-Sample #...: I3J170173-011

Matrix.....: WATER

Date Sampled...: 10/16/03 16:25 Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 3294505						
Iron	0.22	0.10	mg/L	SW846 6010B	10/21-10/22/03	F2WQMLAJ
		Dilution Factor: 1				

CONOCOPHILLIPS

Client Sample ID: KW-1

General Chemistry

Lot-Sample #....: I3J170173-011

Work Order #....: F2WQM

Matrix.....: WATER

Date Sampled....: 10/16/03 16:25

Date Received...: 10/18/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.6 H	0.10	No Units	MCAWW 150.1	10/29/03	3302704
			Dilution Factor: 1			
Chloride	147	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234
			Dilution Factor: 20			
Total Dissolved Solids	723	40.0	mg/L	MCAWW 160.1	10/21/03	3294527
			Dilution Factor: 1			
Total Suspended Solids	ND	10.0	mg/L	MCAWW 160.2	10/21/03	3294529
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

CONOCOPHILLIPS

Client Sample ID: EW-2

GC Volatiles

Lot-Sample #....: I3J170173-012 Work Order #....: F2WQN1AA Matrix.....: WATER
Date Sampled....: 10/16/03 16:35 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 25 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	12	2.5	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	104	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: EW-2

GC Volatiles

Lot-Sample #...: I3J170173-012 Work Order #...: F2WQN1AD Matrix.....: WATER
Date Sampled...: 10/16/03 16:35 Date Received...: 10/18/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #...: 3302547
Dilution Factor: 50 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	2800	50	ug/L
Ethylbenzene	440	50	ug/L
Toluene	2600	50	ug/L
Xylenes (total)	720	150	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	88	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	85	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: EW-2

GC Semivolatiles

Lot-Sample #....: I3J170173-012 Work Order #....: F2WQN1AC Matrix.....: WATER
Date Sampled....: 10/16/03 16:35 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.88	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	87	(28 - 131)
Dotriacontane	91	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: KW-2

TOTAL Metals

Lot-Sample #...: I3J170173-012

Matrix.....: WATER

Date Sampled...: 10/16/03 16:35 Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 3294505						
Iron	0.22	0.10	mg/L	SW846 6010B	10/21-10/22/03	F2WQNLAJ
		Dilution Factor: 1				

CONOCOPHILLIPS

Client Sample ID: EW-2

General Chemistry

Lot-Sample #...: I3J170173-012

Work Order #...: F2WQN

Matrix.....: WATER

Date Sampled...: 10/16/03 16:35

Date Received...: 10/18/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.5 H	0.10	No Units	MCAWW 150.1	10/29/03	3302704
			Dilution Factor: 1			
Chloride	164	20.0	mg/L	MCAWW 300.0A	10/29/03	3303403
			Dilution Factor: 20			
Total Dissolved Solids	749	40.0	mg/L	MCAWW 160.1	10/21/03	3294527
			Dilution Factor: 1			
Total Suspended Solids	ND	10.0	mg/L	MCAWW 160.2	10/21/03	3294529
			Dilution Factor: 1			

NOTE(S) :

RL Reporting Limit

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

CONOCOPHILLIPS

Client Sample ID: MW-20

GC Volatiles

Lot-Sample #....: I3J170173-013 Work Order #....: F2WQP1AA Matrix.....: WATER
Date Sampled....: 10/17/03 10:55 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	96	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-20

GC Volatiles

Lot-Sample #....: I3J170173-013 Work Order #....: F2WQP1AD Matrix.....: WATER
Date Sampled....: 10/17/03 10:55 Date Received...: 10/18/03
Prep Date.....: 10/28/03 Analysis Date...: 10/29/03
Prep Batch #....: 3302547
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	92	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	83	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-20

GC Semivolatiles

Lot-Sample #....: I3J170173-013 Work Order #....: F2WQP1AC Matrix.....: WATER
Date Sampled....: 10/17/03 10:55 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.63	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	89	(28 - 131)
Dotriacontane	97	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-20

General Chemistry

Lot-Sample #....: I3J170173-013 Work Order #....: F2WQP Matrix.....: WATER
Date Sampled....: 10/17/03 10:55 Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	76.8	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234
		Dilution Factor: 20				

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Volatiles

Lot-Sample #....: I3J170173-014 Work Order #....: F2WQV1AA Matrix.....: WATER
Date Sampled....: 10/17/03 11:30 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Volatiles

Lot-Sample #....: I3J170173-014 Work Order #....: F2WQV1AD Matrix.....: WATER
Date Sampled....: 10/17/03 11:30 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	100	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Semivolatiles

Lot-Sample #....: I3J170173-014 Work Order #....: F2WQV1AC Matrix.....: WATER
Date Sampled....: 10/17/03 11:30 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.98	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	98	(28 - 131)
Dotriacontane	100	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-16

General Chemistry

Lot-Sample #....: I3J170173-014 Work Order #....: F2WQV Matrix.....: WATER
Date Sampled....: 10/17/03 11:30 Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	200	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-21

GC Volatiles

Lot-Sample #....: I3J170173-015 Work Order #....: F2WQ01AA Matrix.....: WATER
Date Sampled....: 10/17/03 11:55 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	95	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-21

GC Volatiles

Lot-Sample #....: I3J170173-015 Work Order #....: F2WQ01AD Matrix.....: WATER
Date Sampled....: 10/17/03 11:55 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	103	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	101	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-21

GC Semivolatiles

Lot-Sample #....: I3J170173-015 Work Order #....: F2WQ01AC Matrix.....: WATER
Date Sampled....: 10/17/03 11:55 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.75	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	103	(28 - 131)
Dotriacontane	105	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-21

General Chemistry

Lot-Sample #...: I3J170173-015 Work Order #...: F2WQ0
Date Sampled...: 10/17/03 11:55 Date Received...: 10/18/03

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	886	100	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 100

CONOCOPHILLIPS

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #....: I3J170173-016 Work Order #....: F2WQ41AA Matrix.....: WATER
Date Sampled....: 10/17/03 12:30 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	95	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #....: I3J170173-016 Work Order #....: F2WQ41AD Matrix.....: WATER
Date Sampled....: 10/17/03 12:30 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	6.8	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	2.8	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	99	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-4

GC Semivolatiles

Lot-Sample #....: I3J170173-016 Work Order #....: F2WQ41AC Matrix.....: WATER
Date Sampled....: 10/17/03 12:30 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.59	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	102	(28 - 131)
Dotriacontane	105	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-4

General Chemistry

Lot-Sample #...: I3J170173-016

Work Order #...: F2WQ4

Matrix.....: WATER

Date Sampled...: 10/17/03 12:30

Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	190	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: DISCHAGRE

GC Volatiles

Lot-Sample #...: I3J170173-017 Work Order #...: F2WQ51AA Matrix.....: WATER
Date Sampled...: 10/16/03 16:45 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #...: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	95	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: DISCHAGRE

GC Volatiles

Lot-Sample #....: I3J170173-017 Work Order #....: F2WQ51AD Matrix.....: WATER
Date Sampled....: 10/16/03 16:45 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	99	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: DISCHAGRE

GC Semivolatiles

Lot-Sample #...: I3J170173-017 Work Order #...: F2WQ51AC Matrix.....: WATER
Date Sampled...: 10/16/03 16:45 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #...: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	101	(28 - 131)
Dotriacontane	103	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: DISCHAGRE

TOTAL Metals

Lot-Sample #...: I3J170173-017

Matrix.....: WATER

Date Sampled...: 10/16/03 16:45 Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 3294505						
Iron	ND	0.10	mg/L	SW846 6010B	10/21-10/22/03	F2WQ51AJ
		Dilution Factor: 1				

CONOCOPHILLIPS

Client Sample ID: DISCHAGRE

General Chemistry

Lot-Sample #....: I3J170173-017 Work Order #....: F2WQ5 Matrix.....: WATER
Date Sampled....: 10/16/03 16:45 Date Received...: 10/18/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.8 H	0.10	No Units	MCAWW 150.1	10/29/03	3302704
			Dilution Factor: 1			
Chloride	162	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234
			Dilution Factor: 20			
Total Dissolved Solids	980	40.0	mg/L	MCAWW 160.1	10/21/03	3294527
			Dilution Factor: 1			
Total Suspended Solids	ND	10.0	mg/L	MCAWW 160.2	10/21/03	3294529
			Dilution Factor: 1			

NOTE(S) :

RL Reporting Limit

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

CONOCOPHILLIPS

Client Sample ID: MW-5

GC Volatiles

Lot-Sample #....: I3J170173-018 Work Order #....: F2WQ61AA Matrix.....: WATER
Date Sampled....: 10/17/03 14:10 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-5

GC Volatiles

Lot-Sample #....: I3J170173-018 Work Order #....: F2WQ61AD Matrix.....: WATER
Date Sampled....: 10/17/03 14:10 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	22	1.0	ug/L
Ethylbenzene	3.0	1.0	ug/L
Toluene	22	1.0	ug/L
Xylenes (total)	9.7	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	104	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	100	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-5

GC Semivolatiles

Lot-Sample #...: I3J170173-018 Work Order #...: F2WQ61AC Matrix.....: WATER
Date Sampled...: 10/17/03 14:10 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/29/03
Prep Batch #...: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.99	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	100	(28 - 131)
Dotriacontane	102	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-5

General Chemistry

Lot-Sample #....: I3J170173-018

Work Order #....: F2WQ6

Matrix.....: WATER

Date Sampled....: 10/17/03 14:10

Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	192	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-23

GC Volatiles

Lot-Sample #....: I3J170173-019 Work Order #....: F2WQ71AA Matrix.....: WATER
Date Sampled....: 10/17/03 14:40 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-23

GC Volatiles

Lot-Sample #....: I3J170173-019 Work Order #....: F2WQ71AD Matrix.....: WATER
Date Sampled....: 10/17/03 14:40 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	103	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	102	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-23

GC Semivolatiles

Lot-Sample #....: I3J170173-019 Work Order #....: F2WQ71AC Matrix.....: WATER
Date Sampled....: 10/17/03 14:40 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/29/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.33	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	103	(28 - 131)
Dotriacontane	109	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-23

General Chemistry

Lot-Sample #....: I3J170173-019

Work Order #....: F2WQ7

Matrix.....: WATER

Date Sampled....: 10/17/03 14:40

Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	59.2	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-22

GC Volatiles

Lot-Sample #...: I3J170173-020 Work Order #...: F2WQ81AA Matrix.....: WATER
Date Sampled...: 10/17/03 15:10 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #...: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	96	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-22

GC Volatiles

Lot-Sample #....: I3J170173-020 Work Order #....: F2WQ81AD Matrix.....: WATER
Date Sampled....: 10/17/03 15:10 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	97	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-22

GC Semivolatiles

Lot-Sample #....: I3J170173-020 Work Order #....: F2WQ81AC Matrix.....: WATER
Date Sampled....: 10/17/03 15:10 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/29/03
Prep Batch #....: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.35	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	96	(28 - 131)
Dotriacontane	101	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-22

General Chemistry

Lot-Sample #....: I3J170173-020

Work Order #....: F2WQ8

Matrix.....: WATER

Date Sampled....: 10/17/03 15:10

Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	82.8	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Volatiles

Lot-Sample #...: I3J170173-021 Work Order #...: F2WRA1AA Matrix.....: WATER
Date Sampled...: 10/17/03 15:40 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #...: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	98	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Volatiles

Lot-Sample #....: I3J170173-021 Work Order #....: F2WRA1AD Matrix.....: WATER
Date Sampled....: 10/17/03 15:40 Date Received...: 10/18/03
Prep Date.....: 10/30/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304302
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	98	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	97	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Semivolatiles

Lot-Sample #...: I3J170173-021 Work Order #...: F2WRA1AC Matrix.....: WATER
Date Sampled...: 10/17/03 15:40 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/29/03
Prep Batch #...: 3293348
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.26	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	98	(28 - 131)
Dotriacontane	104	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-13

General Chemistry

Lot-Sample #....: I3J170173-021

Work Order #....: F2WRA

Matrix.....: WATER

Date Sampled....: 10/17/03 15:40

Date Received...: 10/18/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	67.6	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-19

GC Volatiles

Lot-Sample #....: I3J170173-022 Work Order #....: F2WR71AA Matrix.....: WATER
Date Sampled....: 10/17/03 16:05 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-19

GC Volatiles

Lot-Sample #....: I3J170173-022 Work Order #....: F2WR71AD Matrix.....: WATER
Date Sampled....: 10/17/03 16:05 Date Received...: 10/18/03
Prep Date.....: 10/30/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304302
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	97	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	97	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-19

GC Semivolatiles

Lot-Sample #....: I3J170173-022 Work Order #....: F2WR71AC Matrix.....: WATER
Date Sampled....: 10/17/03 16:05 Date Received...: 10/18/03
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #....: 3293350
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.17	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	97	(28 - 131)
Dotriacontane	107	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-19

General Chemistry

Lot-Sample #...: I3J170173-022

Work Order #...: F2WR7

Matrix.....: WATER

Date Sampled...: 10/17/03 16:05

Date Received...: 10/18/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	117	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-14

GC Volatiles

Lot-Sample #...: I3J170173-023 Work Order #...: F25MT1AA Matrix.....: WATER
Date Sampled...: 10/20/03 14:45 Date Received...: 10/22/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #...: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	0.11	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-14

GC Volatiles

Lot-Sample #....: I3J170173-023 Work Order #....: F25MT1AD Matrix.....: WATER
Date Sampled....: 10/20/03 14:45 Date Received...: 10/22/03
Prep Date.....: 10/31/03 Analysis Date...: 10/31/03
Prep Batch #....: 3304398
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	98	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	104	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: MW-14

GC Semivolatiles

Lot-Sample #...: I3J170173-023 Work Order #...: F25MT1AC Matrix.....: WATER
Date Sampled...: 10/20/03 14:45 Date Received...: 10/22/03
Prep Date.....: 10/23/03 Analysis Date...: 10/27/03
Prep Batch #...: 3296317
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.14	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	96	(28 - 131)
Dotriacontane	100	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-14

General Chemistry

Lot-Sample #...: I3J170173-023

Work Order #...: F25MT

Matrix.....: WATER

Date Sampled...: 10/20/03 14:45

Date Received...: 10/22/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	214	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: SVE-10

GC Volatiles

Lot-Sample #....: I3J170173-024 Work Order #....: F25NA1AA Matrix.....: WATER
Date Sampled....: 10/20/03 15:20 Date Received...: 10/22/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	0.42	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	117	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: SVK-10

GC Volatiles

Lot-Sample #....: I3J170173-024 Work Order #....: F25NA1AD Matrix.....: WATER
Date Sampled....: 10/20/03 15:20 Date Received...: 10/22/03
Prep Date.....: 10/31/03 Analysis Date...: 10/31/03
Prep Batch #....: 3304398
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	102	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	113	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: SVE-10

General Chemistry

Lot-Sample #....: I3J170173-024 Work Order #....: F25NA
Date Sampled....: 10/20/03 15:20 Date Received...: 10/22/03

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	255	50.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Volatiles

Lot-Sample #...: I3J170173-025 Work Order #...: F25ND1AA Matrix.....: WATER
Date Sampled...: 10/20/03 16:15 Date Received...: 10/22/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #...: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	1.9	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	112	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Volatiles

Lot-Sample #....: I3J170173-025 Work Order #....: F25ND1AD Matrix.....: WATER
Date Sampled....: 10/20/03 16:15 Date Received...: 10/22/03
Prep Date.....: 10/31/03 Analysis Date...: 10/31/03
Prep Batch #....: 3304398
Dilution Factor: 1 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	300 E	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	2.3	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	107	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	1180 *	(83 - 118)

NOTE(S):

* Surrogate recovery is outside stated control limits.

E Estimated result. Result concentration exceeds the calibration range.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

Sample consumed. No further analysis possible.

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Semivolatiles

Lot-Sample #....: I3J170173-025 Work Order #....: F25ND1AC Matrix.....: WATER
Date Sampled...: 10/20/03 16:15 Date Received...: 10/22/03
Prep Date.....: 10/23/03 Analysis Date...: 10/27/03
Prep Batch #....: 3296317
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.13	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	100	(28 - 131)
Dotriacontane	99	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-16

General Chemistry

Lot-Sample #...: I3J170173-025

Work Order #...: F25ND

Matrix.....: WATER

Date Sampled...: 10/20/03 16:15

Date Received...: 10/22/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	207	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Volatiles

Lot-Sample #....: I3J170173-026 Work Order #....: F25NM1AA Matrix.....: WATER
Date Sampled...: 10/20/03 17:10 Date Received...: 10/22/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304188
Dilution Factor: 10 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	6.4	1.0	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	106	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Volatiles

Lot-Sample #....: I3J170173-026 Work Order #....: F25NM1AD Matrix.....: WATER
Date Sampled....: 10/20/03 17:10 Date Received...: 10/22/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304221
Dilution Factor: 20 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	1900	20	ug/L
Ethylbenzene	130	20	ug/L
Toluene	30	20	ug/L
Xylenes (total)	220	60	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	169 *	(83 - 118)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Semivolatiles

Lot-Sample #....: I3J170173-026 Work Order #....: F25NM1AC Matrix.....: WATER
Date Sampled...: 10/20/03 17:10 Date Received...: 10/22/03
Prep Date.....: 10/23/03 Analysis Date...: 10/27/03
Prep Batch #....: 3296317
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.23	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	99	(28 - 131)
Dotriacontane	104	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: MW-12

General Chemistry

Lot-Sample #....: I3J170173-026

Work Order #....: F25NM

Matrix.....: WATER

Date Sampled....: 10/20/03 17:10

Date Received...: 10/22/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	197	20.0	mg/L	MCAWW 300.0A	10/28/03	3302233

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: I3J170173-027 Work Order #....: F25NW1AA Matrix.....: WATER
Date Sampled...: 10/20/03 Date Received...: 10/22/03
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #....: 3304188
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 125)

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: I3J170173-027 Work Order #....: F25NW1AC Matrix.....: WATER
Date Sampled....: 10/20/03 Date Received...: 10/22/03
Prep Date.....: 10/31/03 Analysis Date...: 10/31/03
Prep Batch #....: 3304398
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	99	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	98	(83 - 118)

CONOCOPHILLIPS

Client Sample ID: SVE-10

GC Semivolatiles

Lot-Sample #....: I3J170173-028 Work Order #....: F3DRQ1AA Matrix.....: WATER
Date Sampled...: 10/23/03 14:50 Date Received...: 10/24/03
Prep Date.....: 10/27/03 Analysis Date...: 10/29/03
Prep Batch #....: 3300626
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.46	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	69	(28 - 131)
Dotriacontane	72	(37 - 139)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J310000-184

Work Order #...: F3T141AA

Matrix.....: WATER

Analysis Date...: 10/28/03
Dilution Factor: 1

Prep Date.....: 10/28/03
Prep Batch #...: 3304184

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	0.10	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO	101	(75 - 125)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J310000-188

Work Order #...: F3T3T1AA

Matrix.....: WATER

Analysis Date...: 10/29/03
Dilution Factor: 1

Prep Date.....: 10/29/03
Prep Batch #...: 3304188

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	0.10	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO	103	(75 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J290000-547

Work Order #...: F3N951AA

Matrix.....: WATER

Analysis Date...: 10/28/03
Dilution Factor: 1

Prep Date.....: 10/28/03
Prep Batch #...: 3302547

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	92	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	84	(83 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J310000-221

Work Order #...: F3T771AA

Matrix.....: WATER

Analysis Date...: 10/29/03
Dilution Factor: 1

Prep Date.....: 10/29/03
Prep Batch #...: 3304221

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	99	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	98	(83 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J310000-302

Work Order #...: F3VQQ1AA

Matrix.....: WATER

Analysis Date...: 10/30/03
Dilution Factor: 1

Prep Date.....: 10/30/03
Prep Batch #...: 3304302

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	98	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	96	(83 - 118)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: I3J170173
MB Lot-Sample #: I3J310000-398

Work Order #....: F3WD31AA

Matrix.....: WATER

Analysis Date...: 10/31/03
Dilution Factor: 1

Prep Date.....: 10/31/03
Prep Batch #....: 3304398

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	98	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	97	(83 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: I3J170173
MB Lot-Sample #: I3J200000-348

Work Order #....: F20KR1AA

Matrix.....: WATER

Analysis Date...: 10/28/03
Dilution Factor: 1

Prep Date.....: 10/20/03

Prep Batch #....: 3293348

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	96	(28 - 131)
Dotriacontane	107	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J200000-350

Work Order #...: F20L11AA

Matrix.....: WATER

Analysis Date...: 10/27/03
Dilution Factor: 1

Prep Date.....: 10/20/03
Prep Batch #...: 3293350

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	95	(28 - 131)
Dotriacontane	98	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J230000-317

Work Order #...: F28L61AA

Matrix.....: WATER

Analysis Date...: 10/27/03
Dilution Factor: 1

Prep Date.....: 10/23/03
Prep Batch #...: 3296317

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	97	(28 - 131)
Dotriacontane	102	(37 - 139)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I3J170173
MB Lot-Sample #: I3J270000-626

Work Order #...: F3HW31AA

Matrix.....: WATER

Analysis Date...: 10/29/03
Dilution Factor: 1

Prep Date.....: 10/27/03
Prep Batch #...: 3300626

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	105	(28 - 131)
Dotriacontane	95	(37 - 139)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD: BLANK REPORT

TOTAL Metals

Client Lot #...: I3J170173

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MB Lot-Sample #: I3J210000-505 Prep Batch #...: 3294505						
Iron	ND	0.10	mg/L	SW846 6010B	10/21-10/22/03	F23171AF
Dilution Factor: 1						

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: I3J170173

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	ND	Work Order #: F3ML71AA 1.0	mg/L	MB Lot-Sample #: I3J290000-233 MCAWW 300.0A	10/28/03	3302233
		Dilution Factor: 1				
Chloride	ND	Work Order #: F3MMD1AA 1.0	mg/L	MB Lot-Sample #: I3J290000-234 MCAWW 300.0A	10/28/03	3302234
		Dilution Factor: 1				
Chloride	ND	Work Order #: F3RD71AA 1.0	mg/L	MB Lot-Sample #: I3J300000-403 MCAWW 300.0A	10/29/03	3303403
		Dilution Factor: 1				
Total Dissolved Solids	ND	Work Order #: F23671AA 40.0	mg/L	MB Lot-Sample #: I3J210000-527 MCAWW 160.1	10/21/03	3294527
		Dilution Factor: 1				
Total Suspended Solids	ND	Work Order #: F237L1AA 10.0	mg/L	MB Lot-Sample #: I3J210000-529 MCAWW 160.2	10/21/03	3294529
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I3J170173 Work Order #...: F3T141AC Matrix.....: WATER
LCS Lot-Sample#: I3J310000-184
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #...: 3304184
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	109	(80 - 120)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	97	(75 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I3J170173 Work Order #...: F3T3T1AC Matrix.....: WATER
LCS Lot-Sample#: I3J310000-188
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #...: 3304188
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	113	(80 - 120)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	86	(75 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I3J170173 Work Order #....: F3N951AC Matrix.....: WATER
LCS Lot-Sample#: I3J290000-547
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #....: 3302547
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	95	(85 - 115)	SW846 8021B
Ethylbenzene	96	(85 - 115)	SW846 8021B
Toluene	93	(85 - 115)	SW846 8021B
Xylenes (total)	94	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	95	(64 - 138)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	94	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	86	(83 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I3J170173 Work Order #...: F3T771AC Matrix.....: WATER
LCS Lot-Sample#: I3J310000-221
Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
Prep Batch #...: 3304221
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	99	(85 - 115)	SW846 8021B
Ethylbenzene	100	(85 - 115)	SW846 8021B
Toluene	96	(85 - 115)	SW846 8021B
Xylenes (total)	97	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	101	(64 - 138)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(70 - 130)
a,a,a-Trifluorotoluene (TFT)	98	(83 - 118)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I3J170173 Work Order #...: F3VQQ1AC Matrix.....: WATER
LCS Lot-Sample#: I3J310000-302
Prep Date.....: 10/30/03 Analysis Date...: 10/31/03
Prep Batch #...: 3304302
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	94	(85 - 115)	SW846 8021B
Ethylbenzene	93	(85 - 115)	SW846 8021B
Toluene	91	(85 - 115)	SW846 8021B
Xylenes (total)	90	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	89	(64 - 138)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	99	(83 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I3J170173 Work Order #....: F3WD31AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: I3J310000-398 F3WD31AD-LCSD
 Prep Date.....: 10/31/03 Analysis Date...: 10/31/03
 Prep Batch #....: 3304398
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	102	(85 - 115)			SW846 8021B
	105	(85 - 115)	2.3	(0-20)	SW846 8021B
Ethylbenzene	102	(85 - 115)			SW846 8021B
	103	(85 - 115)	1.0	(0-20)	SW846 8021B
Toluene	98	(85 - 115)			SW846 8021B
	105	(85 - 115)	6.5	(0-20)	SW846 8021B
Xylenes (total)	98	(85 - 115)			SW846 8021B
	100	(85 - 115)	1.8	(0-20)	SW846 8021B
Methyl tert-butyl ether	113	(64 - 138)			SW846 8021B
	108	(64 - 138)	5.2	(0-30)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(70 - 130)
	100	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	98	(83 - 118)
	99	(83 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: I3J170173 Work Order #...: F20KR1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I3J200000-348 F20KR1AD-LCSD
Prep Date.....: 10/20/03 Analysis Date...: 10/28/03
Prep Batch #...: 3293348
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	92	(51 - 127)			SW846 8015B
	86	(51 - 127)	6.5	(0-28)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	101	(28 - 131)
	96	(28 - 131)
Dotriacontane	103	(37 - 139)
	98	(37 - 139)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: I3J170173 Work Order #....: F20L11AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I3J200000-350 F20L11AD-LCSD
Prep Date.....: 10/20/03 Analysis Date...: 10/27/03
Prep Batch #....: 3293350
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	96	(51 - 127)			SW846 8015B
	94	(51 - 127)	2.7	(0-28)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	100	(28 - 131)
	102	(28 - 131)
Dotriacontane	102	(37 - 139)
	106	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: I3J170173 Work Order #....: F28L61AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I3J230000-317 F28L61AD-LCSD
Prep Date.....: 10/23/03 Analysis Date...: 10/27/03
Prep Batch #....: 3296317
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	96	(51 - 127)			SW846 8015B
	103	(51 - 127)	7.1	(0-28)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	96	(28 - 131)
	102	(28 - 131)
Dotriacontane	102	(37 - 139)
	107	(37 - 139)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: I3J170173 Work Order #...: F3HW31AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I3J270000-626 F3HW31AD-LCSD
Prep Date.....: 10/27/03 Analysis Date...: 10/29/03
Prep Batch #...: 3300626
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	109	(51 - 127)			SW846 8015B
	110	(51 - 127)	1.3	(0-28)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	104	(28 - 131)
	103	(28 - 131)
Dotriacontane	102	(37 - 139)
	107	(37 - 139)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: I3J170173

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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LCS Lot-Sample#: I3J210000-505 Prep Batch #....: 3294505

Iron 101 (80 - 120) SW846 6010B 10/21-10/22/03 F23171AJ

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: I3J170173

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids		WO#:F23671AC-LCS/F23671AD-LCSD LCS Lot-Sample#: I3J210000-527				
	99	(87 - 113)		MCAWW 160.1	10/21/03	3294527
	101	(87 - 113)	2.0 (0-20)	MCAWW 160.1	10/21/03	3294527
		Dilution Factor: 1				
Total Suspended Solids		WO#:F237L1AC-LCS/F237L1AD-LCSD LCS Lot-Sample#: I3J210000-529				
	111	(85 - 115)		MCAWW 160.2	10/21/03	3294529
	103	(85 - 115)	7.5 (0-20)	MCAWW 160.2	10/21/03	3294529
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: I3J170173

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (liquid)	100	(90 - 110)	Work Order #: F3PMR1AA MCAWW 150.1 Dilution Factor: 1	LCS Lot-Sample#: I3J290000-704 10/29/03	3302704
Chloride	95	(85 - 106)	Work Order #: F3ML71AC MCAWW 300.0A Dilution Factor: 1	LCS Lot-Sample#: I3J290000-233 10/28/03	3302233
Chloride	100	(85 - 106)	Work Order #: F3MMD1AC MCAWW 300.0A Dilution Factor: 1	LCS Lot-Sample#: I3J290000-234 10/28/03	3302234
Chloride	91	(85 - 106)	Work Order #: F3RD71AC MCAWW 300.0A Dilution Factor: 1	LCS Lot-Sample#: I3J300000-403 10/29/03	3303403

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I3J170173 Work Order #...: F2WQM1AK-MS Matrix.....: WATER
MS Lot-Sample #: I3J170173-011 F2WQM1AL-MSD
Date Sampled...: 10/16/03 16:25 Date Received...: 10/18/03
Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
Prep Batch #...: 3304184
Dilution Factor: 50

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	107	(80 - 120)			SW846 8015B
	109	(80 - 120)	1.4	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 125)
	97	(75 - 125)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I3J170173 Work Order #....: F2WQN1AK-MS Matrix.....: WATER
MS Lot-Sample #: I3J170173-012 F2WQN1AL-MSD
Date Sampled....: 10/16/03 16:35 Date Received...: 10/18/03
Prep Date.....: 10/29/03 Analysis Date...: 10/29/03
Prep Batch #....: 3304188
Dilution Factor: 25

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	108	(80 - 120)			SW846 8015B
	109	(80 - 120)	1.2	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO	90	(75 - 125)
	88	(75 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I3J170173 Work Order #....: F2J9Q1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: I3J150144-001 F2J9Q1AK-MSD
 Date Sampled....: 10/14/03 15:00 Date Received...: 10/15/03
 Prep Date.....: 10/28/03 Analysis Date...: 10/28/03
 Prep Batch #....: 3302547
 Dilution Factor: 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	75 a, MSC	(85 - 115)			SW846 8021B
	45 a, p, MS	(85 - 115)	49	(0-20)	SW846 8021B
Ethylbenzene	90	(85 - 118)			SW846 8021B
	90	(85 - 118)	0.43	(0-20)	SW846 8021B
Toluene	89	(85 - 115)			SW846 8021B
	88	(85 - 115)	0.83	(0-20)	SW846 8021B
Xylenes (total)	91	(85 - 115)			SW846 8021B
	91	(85 - 115)	0.19	(0-20)	SW846 8021B
Methyl tert-butyl ether	55 a, MSC	(64 - 138)			SW846 8021B
	57 a, MSC	(64 - 138)	3.6	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(70 - 130)
	100	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	86	(83 - 118)
	74 *	(83 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I3J170173 Work Order #....: F25NM1AF-MS Matrix.....: WATER
 MS Lot-Sample #: I3J170173-026 F25NM1AG-MSD
 Date Sampled....: 10/20/03 17:10 Date Received...: 10/22/03
 Prep Date.....: 10/29/03 Analysis Date...: 10/30/03
 Prep Batch #....: 3304221
 Dilution Factor: 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	221 a, MSC	(85 - 115)			SW846 8021B
	201 a, MSC	(85 - 115)	2.9	(0-20)	SW846 8021B
Ethylbenzene	109	(85 - 118)			SW846 8021B
	104	(85 - 118)	4.2	(0-20)	SW846 8021B
Toluene	102	(85 - 115)			SW846 8021B
	100	(85 - 115)	1.9	(0-20)	SW846 8021B
Xylenes (total)	104	(85 - 115)			SW846 8021B
	99	(85 - 115)	3.9	(0-20)	SW846 8021B
Methyl tert-butyl ether	106	(64 - 138)			SW846 8021B
	104	(64 - 138)	1.3	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(70 - 130)
	103	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	191 *	(83 - 118)
	188 *	(83 - 118)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I3J170173 Work Order #....: F20571AC-MS Matrix.....: WATER
 MS Lot-Sample #: I3J200182-006 F20571AD-MSD
 Date Sampled...: 10/17/03 13:25 Date Received...: 10/20/03
 Prep Date.....: 10/30/03 Analysis Date...: 10/31/03
 Prep Batch #....: 3304302
 Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	104	(85 - 115)			SW846 8021B
	66 a, MSC	(85 - 115)	7.4	(0-20)	SW846 8021B
Ethylbenzene	106	(85 - 118)			SW846 8021B
	63 a, MSC	(85 - 118)	6.9	(0-20)	SW846 8021B
Toluene	90	(85 - 115)			SW846 8021B
	89	(85 - 115)	1.5	(0-20)	SW846 8021B
Xylenes (total)	36 a, MSC	(85 - 115)			SW846 8021B
	11 a, MSC	(85 - 115)	6.5	(0-20)	SW846 8021B
Methyl tert-butyl ether	104	(64 - 138)			SW846 8021B
	94	(64 - 138)	4.9	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(70 - 130)
	103	(70 - 130)
a, a, a-Trifluorotoluene (TFT)	123 *	(83 - 118)
	116	(83 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: I3J170173

Matrix.....: WATER

Date Sampled...: 10/14/03 08:45 Date Received...: 10/15/03

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	-----------------------------------	----------------------------------	-----------------------------	---------------	---	-------------------------------

MS Lot-Sample #: I3J150308-001 Prep Batch #....: 3294505

Iron	101	(75 - 125)		SW846 6010B	10/21-10/22/03	F2L5M1AM
	101	(75 - 125) 0.59 (0-20)		SW846 6010B	10/21-10/22/03	F2L5M1AN

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: I3J170173

Matrix.....: WATER

Date Sampled....: 10/20/03 14:11 Date Received...: 10/22/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#:	F2R6L1AF-MS/F2R6L1AG-MSD	MS Lot-Sample #:	I3J170173-001	
	110 N	(85 - 106)			MCAWW 300.0A	10/28/03	3302234
	108 N	(85 - 106)	0.63	(0-22)	MCAWW 300.0A	10/28/03	3302234
			Dilution Factor: 1				
Chloride			WO#:	F2WQ61AF-MS/F2WQ61AG-MSD	MS Lot-Sample #:	I3J170173-018	
	96	(85 - 106)			MCAWW 300.0A	10/28/03	3302233
	96	(85 - 106)	0.05	(0-22)	MCAWW 300.0A	10/28/03	3302233
			Dilution Factor: 1				
Chloride			WO#:	F26A71AK-MS/F26A71AL-MSD	MS Lot-Sample #:	I3J220230-016	
	99	(85 - 106)			MCAWW 300.0A	10/29/03	3303403
	90	(85 - 106)	4.2	(0-22)	MCAWW 300.0A	10/29/03	3303403
			Dilution Factor: 1				
Chloride			WO#:	F26F01AN-MS/F26F01AP-MSD	MS Lot-Sample #:	I3J220268-001	
	95	(85 - 106)			MCAWW 300.0A	10/29/03	3303403
	94	(85 - 106)	0.34	(0-22)	MCAWW 300.0A	10/29/03	3303403
			Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: I3J170173

Work Order #....: F2WQ5-SMP
F2WQ5-DUP

Matrix.....: WATER

Date Sampled....: 10/16/03 16:45 Date Received...: 10/18/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.8 H	7.8 H	No Units	0.26	(0-20)	SD Lot-Sample #: I3J170173-017 MCAWW 150.1	10/29/03	3302704
Dilution Factor: 1								

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: use of different analytical wavelength.

EPA 340.2, Fluoride: preliminary Bellach distillation not performed.

EPA 8151: use of alternate extraction solvent.

Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.

EPA TO12: samples not analyzed in duplicate.

EPA TO14A and TO15: zero humidified nitrogen is used in place of air for method blanks.

For all methods that require matrix spike/matrix spike duplicate or laboratory duplicate analyses: In cases where insufficient sample volume is available for method required matrix spike, matrix spike duplicate and/or laboratory duplicate analyses, these QC analyses will not be included in the report.

Chain of Custody Record

STL4149 (1202)

SEVERN
TRENT
STL

Severn Trent Laboratories, Inc.

007224

Client ConocoPhillips / MAXIM Date 10-16-03 Page 1 of 1

Address 1703 W. INDUSTRIAL AVE Telephone Number (Area Code)/Fax Number (432) 686-8081/686-8089 Lab Location AUSTIN, TX

City MIDLAND State TX Zip Code 79701 Site Contact GREG W. POPE Carrier/Waybill Number 4640004 / NM1-1

Project Number/Name 4640004 / NM1-1 Contract/Purchase Order/Quote Number

Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Containers Type No.	Preservative	Condition on Receipt/Comments	Analysis
IW-3	10-15-03	1800	AQ/GW	1-L	4/4	4% HCl/4% H ₂ O	2.40 10-17-03 CC	TPH-DRO TEX-GRO CHLORIDE
IW-2	10-15-03	1820	AQ/GW				SEE APP	XXXX
IW-4	10-16-03	045	AQ/GW					XXXX
IW-5	10-16-03	1030	AQ/GW					XXXX
MW-13	10-16-03	1100	AQ/GW					XXXX
IW-6	10-16-03	1220	AQ/GW					XXXX
IW-7	10-16-03	1315	AQ/GW					XXXX
SYE-1	10-16-03	1510	AQ/GW					XXXX
TRAIN BLANK				40ML	100	None		XX

Special Instructions

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☒ Normal ☐ Rush ☐ Other _____

QC Level
☒ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

1. Relinquished By [Signature] Date 10-16-03 Time 16:02 1. Received By [Signature] Date 10-17-03 Time 0917

2. Relinquished By [Signature] Date _____ Time _____ 2. Received By _____ Date _____ Time _____

3. Relinquished By _____ Date _____ Time _____ 3. Received By _____ Date _____ Time _____

Comments

I3J17013-10-21

STILL SEVERN TRENT

Severn Trent Laboratories, Inc.

Chain of Custody Record

STL4149 (1202)

Client	CONOCO PHILLIPS / MAXIM		Project Manager	GREG W. POPE	Date	10-17-03
Address	1703 W. INDUSTRIAL AVE		Telephone Number (Area Code)/Fax Number	(432)686-8081 / 686-8085	Lab Location	AUSTIN, TX
City	MIDLAND	State	TX	Zip Code	79701	
Project Number/Name	4640004/5 - NMI-1 / E. HOBBS JCT		Carrier/Waybill Number			
Contract/Purchase Order/Quote Number						

Analysis

Page 1 of

Sample I.D. Number and Description	Date	Time	Sample Type	Containers		Preservative	Condition on Receipt/Comments	H-03H-1
				Volume	Type			
AFTER TOWER	10-16-03	1615	AQ	1-L/12540	A/N/P	HCl/mb3	300 10-18-03 c/c	XX XX XX XX
EW-1	10-16-03	1625					140m Broken	XX XX XX XX
EW-2	10-16-03	1635					SEE APP	XX XX XX XX
MW-20	10-17-03	1055				HCl		XX XX
MW-16	10-17-03	1130						XX XX
MW-21	10-17-03	1155						XX XX
MW-4	10-17-03	1230						XX XX

Special Instructions

Possible Hazard Identification		Sample Disposal		(A fee may be assessed if samples are retained longer than 3 months)	
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	Months _____
Turn Around Time Required		OC Level		Project Specific Requirements (Specify)	
☒ Normal	☐ Rush	☒ I.	☐ II.	☐ III.	
1. Relinquished By 		Date 10-17-03		Time 1700	
2. Relinquished By		Date		Time	
3. Relinquished By		Date		Time	
Turn Around Time Required		OC Level		Project Specific Requirements (Specify)	
☒ Normal	☐ Rush	☒ I.	☐ II.	☐ III.	
1. Relinquished By 		Date 10-18-03		Time 1030	
2. Relinquished By		Date		Time	
3. Relinquished By		Date		Time	

Comments

DISTRIBUTION: WHITE - Stays with the Sample: CANARY - Returned to Client with Report: PINK - Field Copy

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

160/168

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Slays with the Sample; PINK - Field Copy

**SEVERN
TRENT**

STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No. I3J170173

RECEIVED BY

COC NUMBER: 007224

DATE/TIME RECEIVED: 10-17-03 0915

QUOTE/PROFILE: 35401

UNPACKED DATE/TIME: 10-17-03 10:10

CLIENT/PROJECT: CONOCO PHILLIPS

SAMPLES LOGGED IN: LOG-IN REVISED

Number of Shipping Containers Received
with Chain of Custody _____ / _____

VOC AIR SAMPLES ☐ YES SEE SECTIONS 1.0, 2.0, & 6.0

1.0 CONTAINERS EXAMINED UPON RECEIPT: 1C

Container Sealed: ☒ YES ☐ NO

Custody Seal Present: ☒ YES ☐ NO

Custody Seal Signed/Dated. ☒ YES ☐ NO

If seal not intact, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments: ☐ YES ☐ NO

Packing Material Used: (circle)

Can Size: ☐ 6L ☐ 15L Other _____

None / Absorbent / Paper / Bubble Wrap

3.0 SAMPLE TEMPERATURE UPON RECEIPT: cc PYROMETER #: P4

The temperature of the container(s) is: _____ (acceptable tolerance 1-4°C)

[illegible]

If temperature is outside acceptable tolerance, Project Manager was notified (_____ PM) Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☒ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED. ☐ NO ☒ YES VERIFIED BY: 12

Base samples are > pH 12: ☐ YES ☐ NO

Acid preserved are < pH 2: ☒ YES ☐ NO

Cyanide samples checked
for sulfides:

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine
per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation/temperature (°C) is outside acceptable tolerance, Project Manager was notified (_____ PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: CC

Samples received match COC: ☐ YES ☒ NO Bottles received intact: ☐ YES ☒ NO
See additional discrepancies/comments section: ☒ YES ☐ NO Samples received from USDA restricted area: ☐ YES ☒ NO
VOA trip blanks included: ☒ YES ☐ NO ☐ N/A 4x40ml

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		Comments
Sample ID	Date/Time	Sample ID	Date/Time	

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☒ YES ☒ NO Air bill #: CC
Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

Received sample IW-2 1x40ml vial Broken
Received 4x40ml not 3x40ml for Trip Blank
Sample Received 1x1L, 4x40ml, 1x250ml NonPreservative

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____
Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Client COC is "received", i.e., signed and dated with time of receipt. ☒ YES
COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☐ YES ☒ N/A

Project Management: CC Date: 11-7-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

**SEVERN
TRENT****STL**

CHAIN-OF-CUSTODY ADDENDUM

RECEIVED BY: *[Signature]*Lot No: 135170173-00-021DATE/TIME RECEIVED 10-18-03 0940COC NUMBER: 07412-07414UNPACKED DATE/TIME: 10-18-03 1130QUOTE/PROFILE: Q55401CLIENT/PROJECT: ConocoSAMPLES LOGGED IN: ECLOG-IN REVISED: *[Signature]*Number of Shipping Containers Received
with Chain of Custody 2VOC AIR SAMPLES ☐ YES SEE SECTIONS 1.0, 2.0, & 6.01.0 CONTAINERS EXAMINED UPON RECEIPT: CCContainer Sealed: ☒ YES ☐ NOCustody Seal Present: ☒ YES ☐ NOCustody Seal Signed/Dated: ☒ YES ☐ NO

If seal not intact, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NOSamples Received Match Chain: ☐ YES ☐ NOCanister Valves Capped: ☐ YES ☐ NOSee Additional Comments: ☐ YES ☐ NO

Packing Material Used (circle)

Can Size: ☐ 6L ☐ 15L

Other: _____

None / Absorbent / Paper / Bubble Wrap

3.0 SAMPLE TEMPERATURE UPON RECEIPT: 04PYROMETER #: CC

The temperature of the container(s) is

(acceptable tolerance 1-4°C)

30°	2.7°										
-----	------	--	--	--	--	--	--	--	--	--	--

If temperature is outside acceptable tolerance, Project Manager was notified (____ PM) Date: _____ Time: _____

Samples received do not require cooling _____

OK to analyze samples: ☒ YES ☐ NOPRESERVATION OF SAMPLES REQUIRED: ☐ NA ☒ YESVERIFIED BY: CCBase samples are > pH 12: ☐ YES ☐ NOAcid preserved are < pH 2: ☐ YES ☐ NOCyanide samples checked
for sulfides: ☐ YESSulfide samples appear
to be preserved with zinc acetate: ☐ YES ☐ NOSamples checked for chlorine
per specification: ☐ YESFree chlorine present: ☐ YES ☐ NO

If sample preservation/temperature (°C) is outside acceptable tolerance, Project Manager was notified (____ PM)

Date: _____ Time: _____ ☐ see pH adjustment formVOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING
BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: CC

Samples received match COC: ☒ YES ☐ NO Bottles received intact: ☒ YES ☐ NO
 See additional discrepancies/comments section: ☐ YES ☒ NO Samples received from USDA restricted area: ☐ YES ☒ NO
 VOA trip blanks included: ☐ YES ☐ NO ☒ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		Comments
Sample ID	Date/Time	Sample ID	Date/Time	

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☒ YES ☐ NO Air bill #: _____
 Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____
 Client's Name: _____ Informed verbally on: _____ By: _____
 Sample(s) processed "as is" comments: _____
 Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Client COC is "received", i.e., signed and dated with time of receipt. ☒ YES
 COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☐ YES ☒ N/A

Project Management: CMS Date: 11-7-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: CC

Samples received match COC: ☒ YES ☐ NO Bottles received intact: ☐ YES ☒ NO
See additional discrepancies/comments section: ☒ YES ☐ NO Samples received from USDA restricted area: ☐ YES ☒ NO
VOA trip blanks included: ☐ YES ☐ NO ☐ N/A 2x40ml

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		Comments
Sample ID	Date/Time	Sample ID	Date/Time	

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☒ YES ☐ NO Air bill #: _____
Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

SDE-10 1X1L Broken
Sample Received 4X40ml; 1X1L, 1X250ml

CORRECTIVE ACTION:

Client's Name: G. Pope Informed verbally on: 10-22-03 By: CMB
Client's Name: _____ Informed verbally on: _____ By: _____
Sample(s) processed "as is" comments: will resample trend to add to lot
Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Client COC is "received", i.e., signed and dated with time of receipt. ☒ YES
COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☐ YES ☒ N/A

Project Management: CMB Date: 11-7-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: CC

Samples received match COC: ☒ YES ☐ NO Bottles received intact: ☒ YES ☐ NO
 See additional discrepancies/comments section: ☐ YES ☒ NO Samples received from USDA restricted area: ☐ YES ☒ NO
 VOA trip blanks included: ☐ YES ☐ NO ☒ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		Comments
Sample ID	Date/Time	Sample ID	Date/Time	

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☒ YES ☐ NO Air bill #: _____
 Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____
 Client's Name: _____ Informed verbally on: _____ By: _____
 Sample(s) processed "as is" comments: _____
 Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Client COC is "received", i.e., signed and dated with time of receipt. ☒ YES
 COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☐ YES ☒ N/A
 Project Management: amb Date: 10-24-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

**STL****Certificate of Analysis**

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ANALYTICAL REPORT

PROJECT NO. HOBBS, NM

3373 E Hobbs Jct Qtrly GWM

Lot #: I4A220251

Greg Pope

Maxim Technologies
1703 W Industrial Ave
Midland, TX 79701

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in cursive script that reads "Carla Butler".

Carla M. Butler
Project Manager

February 6, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative

STL LOT NUMBER: I4A220251

This report contains the analytical results for the 13 samples received under chain of custody by Severn Trent Laboratories (STL) on January 22, 2004. These samples are associated with your 3373 E Hobbs Jct Qtrly GWM project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

EXECUTIVE SUMMARY - Detection Highlights

I4A220251

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-14 01/21/04 14:20 001				
Diesel Range Organics	0.12	0.048	mg/L	SW846 8015B
Gasoline Range Organics	0.18	0.10	mg/L	SW846 8015B
Benzene	34	1.0	ug/L	SW846 8021B
Chloride	200	50.0	mg/L	MCAWW 300.0A
MW-18 01/21/04 14:45 002				
Diesel Range Organics	0.11	0.048	mg/L	SW846 8015B
Gasoline Range Organics	4.3	0.10	mg/L	SW846 8015B
Benzene	260	2.0	ug/L	SW846 8021B
Ethylbenzene	130	1.0	ug/L	SW846 8021B
Xylenes (total)	73	3.0	ug/L	SW846 8021B
Chloride	193	50.0	mg/L	MCAWW 300.0A
MW-12 01/21/04 15:15 003				
Diesel Range Organics	0.25	0.048	mg/L	SW846 8015B
Gasoline Range Organics	12	1.0	mg/L	SW846 8015B
Benzene	2700	10	ug/L	SW846 8021B
Ethylbenzene	300	1.0	ug/L	SW846 8021B
Toluene	130	1.0	ug/L	SW846 8021B
Xylenes (total)	450	3.0	ug/L	SW846 8021B
Chloride	183	50.0	mg/L	MCAWW 300.0A
MW-21 01/21/04 09:30 005				
Chloride	782	100	mg/L	MCAWW 300.0A
MW-16 01/21/04 10:00 006				
Chloride	182	50.0	mg/L	MCAWW 300.0A
MW-20 01/21/04 10:30 008				
Chloride	74.6	50.0	mg/L	MCAWW 300.0A
MW-23 01/21/04 11:15 010				
Chloride	61.3	50.0	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I4A220251

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-22 01/21/04 11:45 011				
Chloride	79.4	50.0	mg/L	MCAWW 300.0A
MW-13 01/21/04 12:20 012				
Chloride	68.8	50.0	mg/L	MCAWW 300.0A
MW-19 01/21/04 13:50 013				
Chloride	169	50.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

I4A220251

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

I4A220251

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	David A. Tocher	800002
SW846 8015B	Beth Driskill	008945
SW846 8015B	Ellen Grett	014902
SW846 8021B	Beth Driskill	008945

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY**I4A220251**

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F8D9H	001	MW-14	01/21/04	14:20
F8D9N	002	MW-18	01/21/04	14:45
F8D9P	003	MW-12	01/21/04	15:15
F8D9R	004	TRIP BLANK 3	01/21/04	16:40
F8EAA	005	MW-21	01/21/04	09:30
F8EAC	006	MW-16	01/21/04	10:00
F8EAF	008	MW-20	01/21/04	10:30
F8EAJ	009	TRIP BLANK 1	01/21/04	16:30
F8EA3	010	MW-23	01/21/04	11:15
F8EA7	011	MW-22	01/21/04	11:45
F8EA9	012	MW-13	01/21/04	12:20
F8ECD	013	MW-19	01/21/04	13:50
F8ECE	014	TRIP BLANK 2	01/21/04	16:35

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4A220251

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
002	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
	WATER	SW846 8021B		4030197	4030073
003	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4030185	4030069
	WATER	SW846 8021B		4023437	4023200
	WATER	SW846 8021B		4030197	4030073
004	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
005	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
006	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
008	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
009	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
010	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200

(Continued on next page)

QC DATA ASSOCIATION SUMMARY**I4A220251**

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
011	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
012	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
013	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023290	4023132
	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200
014	WATER	SW846 8015B		4026155	4026036
	WATER	SW846 8021B		4023437	4023200

CONOCOPHILLIPS

Client Sample ID: MW-14

GC Volatiles

Lot-Sample #....: I4A220251-001 Work Order #....: F8D9H1AA Matrix.....: WATER
Date Sampled....: 01/21/04 14:20 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	0.18	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	105	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-14

GC Volatiles

Lot-Sample #.... I4A220251-001 Work Order #.... F8D9H1AD Matrix.....: WATER
Date Sampled.... 01/21/04 14:20 Date Received... 01/22/04
Prep Date..... 01/23/04 Analysis Date... 01/23/04
Prep Batch #.... 4023437
Dilution Factor: 1 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	34	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	103	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-14

GC Semivolatiles

Lot-Sample #....: I4A220251-001 Work Order #....: F8D9H1AC Matrix.....: WATER
Date Sampled....: 01/21/04 14:20 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.12	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	93	(53 - 139)
Dotriacontane	102	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-14

General Chemistry

Lot-Sample #...: I4A220251-001 Work Order #...: F8D9H
Date Sampled...: 01/21/04 14:20 Date Received...: 01/22/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	200	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-18

GC Volatiles

Lot-Sample #....: I4A220251-002 Work Order #....: F8D9N1AA Matrix.....: WATER
Date Sampled....: 01/21/04 14:45 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	4.3	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	116	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-18

GC Volatiles

Lot-Sample #....: I4A220251-002 Work Order #....: F8D9N1AD Matrix.....: WATER
Date Sampled....: 01/21/04 14:45 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethylbenzene	130	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	73	3.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	1210 *	(73 - 135)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

CONOCOPHILLIPS

Client Sample ID: MW-18

GC Volatiles

Lot-Sample #...: I4A220251-002 Work Order #...: F8D9N2AD Matrix.....: WATER
Date Sampled...: 01/21/04 14:45 Date Received...: 01/22/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #...: 4030197
Dilution Factor: 2 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	260	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	95	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	386 *	(73 - 135)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

CONOCOPHILLIPS

Client Sample ID: MW-18

GC Semivolatiles

Lot-Sample #....: I4A220251-002 Work Order #....: F8D9N1AC Matrix.....: WATER
Date Sampled....: 01/21/04 14:45 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.11	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	84	(53 - 139)
Dotriacontane	92	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-18

General Chemistry

Lot-Sample #...: I4A220251-002

Work Order #...: F8D9N

Matrix.....: WATER

Date Sampled...: 01/21/04 14:45

Date Received...: 01/22/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	193	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Volatiles

Lot-Sample #....: I4A220251-003 Work Order #....: F8D9P2AA Matrix.....: WATER
Date Sampled....: 01/21/04 15:15 Date Received...: 01/22/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 10 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	12	1.0	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	92	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Volatiles

Lot-Sample #....: I4A220251-003 Work Order #....: F8D9P1AD Matrix.....: WATER
Date Sampled....: 01/21/04 15:15 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Ethylbenzene	300	1.0	ug/L
Toluene	130	1.0	ug/L
Xylenes (total)	450	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	118	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	4060 *	(73 - 135)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Volatiles

Lot-Sample #....: I4A220251-003 Work Order #....: F8D9P2AD Matrix.....: WATER
Date Sampled....: 01/21/04 15:15 Date Received...: 01/22/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030197
Dilution Factor: 10 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	2700	10	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	96	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	178 *	(73 - 135)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

CONOCOPHILLIPS

Client Sample ID: MW-12

GC Semivolatiles

Lot-Sample #....: I4A220251-003 Work Order #....: F8D9P1AC Matrix.....: WATER
Date Sampled....: 01/21/04 15:15 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.25	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	80	(53 - 139)
Dotriacontane	95	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-12

General Chemistry

Lot-Sample #...: I4A220251-003

Work Order #...: F8D9P

Matrix.....: WATER

Date Sampled...: 01/21/04 15:15

Date Received...: 01/22/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	183	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 3

GC Volatiles

Lot-Sample #....: I4A220251-004 Work Order #....: F8D9R1AA Matrix.....: WATER
Date Sampled....: 01/21/04 16:40 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 3

GC Volatiles

Lot-Sample #...: I4A220251-004 Work Order #...: F8D9R1AC Matrix.....: WATER
Date Sampled...: 01/21/04 16:40 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	105	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-21

GC Volatiles

Lot-Sample #....: I4A220251-005 Work Order #....: F8EAA1AA Matrix.....: WATER
Date Sampled....: 01/21/04 09:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-21

GC Volatiles

Lot-Sample #....: I4A220251-005 Work Order #....: F8EAA1AD Matrix.....: WATER
Date Sampled....: 01/21/04 09:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	97	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	111	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-21

GC Semivolatiles

Lot-Sample #....: I4A220251-005 Work Order #....: F8EAA1AC Matrix.....: WATER
Date Sampled....: 01/21/04 09:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	89	(53 - 139)
Dotriacontane	101	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-21

General Chemistry

Lot-Sample #...: I4A220251-005 Work Order #...: F8EAA Matrix.....: WATER
Date Sampled...: 01/21/04 09:30 Date Received...: 01/22/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	782	100	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 100

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Volatiles

Lot-Sample #...: I4A220251-006 Work Order #...: F8EAC1AA Matrix.....: WATER
Date Sampled...: 01/21/04 10:00 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	102	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Volatiles

Lot-Sample #...: I4A220251-006 Work Order #...: F8EAC1AD Matrix.....: WATER
Date Sampled...: 01/21/04 10:00 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	98	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	103	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-16

GC Semivolatiles

Lot-Sample #...: I4A220251-006 Work Order #...: F8EAC1AC Matrix.....: WATER
Date Sampled...: 01/21/04 10:00 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #...: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	87	(53 - 139)
Dotriacontane	93	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-16

General Chemistry

Lot-Sample #...: I4A220251-006

Work Order #...: F8EAC

Matrix.....: WATER

Date Sampled...: 01/21/04 10:00

Date Received...: 01/22/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	182	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-20

GC Volatiles

Lot-Sample #....: I4A220251-008 Work Order #....: F8EAF1AA Matrix.....: WATER
Date Sampled...: 01/21/04 10:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND		0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-20

GC Volatiles

Lot-Sample #....: I4A220251-008 Work Order #....: F8EAF1AD Matrix.....: WATER
Date Sampled....: 01/21/04 10:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	99	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	103	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-20

GC Semivolatiles

Lot-Sample #....: I4A220251-008 Work Order #....: F8EAF1AC Matrix.....: WATER
Date Sampled....: 01/21/04 10:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	98	(53 - 139)
Dotriacontane	106	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-20

General Chemistry

Lot-Sample #....: I4A220251-008 Work Order #....: F8EAF Matrix.....: WATER
Date Sampled....: 01/21/04 10:30 Date Received...: 01/22/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	74.6	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 1

GC Volatiles

Lot-Sample #....: I4A220251-009 Work Order #....: F8EAJ1AA Matrix.....: WATER
Date Sampled....: 01/21/04 16:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 1

GC Volatiles

Lot-Sample #...: I4A220251-009 Work Order #...: F8EAJ1AD Matrix.....: WATER
Date Sampled...: 01/21/04 16:30 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	104	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-23

GC Volatiles

Lot-Sample #.... I4A220251-010 Work Order #.... F8EA31AA Matrix.....: WATER
Date Sampled....: 01/21/04 11:15 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-23

GC Volatiles

Lot-Sample #....: I4A220251-010 Work Order #....: F8EA31AD Matrix.....: WATER
Date Sampled....: 01/21/04 11:15 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	99	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	102	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-23

GC Semivolatiles

Lot-Sample #....: I4A220251-010 Work Order #....: F8EA31AC Matrix.....: WATER
Date Sampled....: 01/21/04 11:15 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	91	(53 - 139)
Dotriacontane	103	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-23

General Chemistry

Lot-Sample #...: I4A220251-010 Work Order #...: F8EA3
Date Sampled...: 01/21/04 11:15 Date Received...: 01/22/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	61.3	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-22

GC Volatiles

Lot-Sample #....: I4A220251-011 Work Order #....: F8EA71AA Matrix.....: WATER
Date Sampled....: 01/21/04 11:45 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-22

GC Volatiles

Lot-Sample #...: I4A220251-011 Work Order #...: F8EA71AD Matrix.....: WATER
Date Sampled...: 01/21/04 11:45 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	103	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-22

GC Semivolatiles

Lot-Sample #....: I4A220251-011 Work Order #....: F8EA71AC Matrix.....: WATER
Date Sampled....: 01/21/04 11:45 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	93	(53 - 139)
Dotriacontane	104	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-22

General Chemistry

Lot-Sample #....: I4A220251-011 Work Order #....: F8EA7
Date Sampled....: 01/21/04 11:45 Date Received...: 01/22/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	79.4	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Volatiles

Lot-Sample #...: I4A220251-012 Work Order #...: F8EA91AA Matrix.....: WATER
Date Sampled...: 01/21/04 12:20 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Volatiles

Lot-Sample #....: I4A220251-012 Work Order #....: F8EA91AD Matrix.....: WATER
Date Sampled....: 01/21/04 12:20 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	100	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	104	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-13

GC Semivolatiles

Lot-Sample #....: I4A220251-012 Work Order #....: F8EA91AC Matrix.....: WATER
Date Sampled....: 01/21/04 12:20 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/27/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	89	(53 - 139)
Dotriacontane	100	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-13

General Chemistry

Lot-Sample #...: I4A220251-012 Work Order #...: F8EA9 Matrix.....: WATER
Date Sampled...: 01/21/04 12:20 Date Received...: 01/22/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	68.8	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-19

GC Volatiles

Lot-Sample #....: I4A220251-013 Work Order #....: F8ECD1AA Matrix.....: WATER
Date Sampled....: 01/21/04 13:50 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	101	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-19

GC Volatiles

Lot-Sample #....: I4A220251-013 Work Order #....: F8ECD1AD Matrix.....: WATER
Date Sampled....: 01/21/04 13:50 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	99	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	103	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-19

GC Semivolatiles

Lot-Sample #....: I4A220251-013 Work Order #....: F8ECD1AC Matrix.....: WATER
Date Sampled....: 01/21/04 13:50 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/27/04
Prep Batch #....: 4023290
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	88	(53 - 139)
Dotriacontane	98	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-19

General Chemistry

Lot-Sample #...: I4A220251-013 Work Order #...: F8ECD
Date Sampled...: 01/21/04 13:50 Date Received...: 01/22/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	169	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 2

GC Volatiles

Lot-Sample #...: I4A220251-014 Work Order #...: F8ECE1AA Matrix.....: WATER
Date Sampled...: 01/21/04 16:35 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #...: 4026155
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 2

GC Volatiles

Lot-Sample #....: I4A220251-014 Work Order #....: F8ECE1AC Matrix.....: WATER
Date Sampled....: 01/21/04 16:35 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4023437
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	99	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	103	(73 - 135)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I4A220251
MB Lot-Sample #: I4A260000-155

Work Order #...: F8JDD1AA

Matrix.....: WATER

Analysis Date...: 01/23/04
Dilution Factor: 1

Prep Date.....: 01/23/04
Prep Batch #...: 4026155

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	0.10	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO	102	(75 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I4A220251
MB Lot-Sample #: I4A300000-185

Work Order #...: F8RWR1AA

Matrix.....: WATER

Analysis Date...: 01/29/04
Dilution Factor: 1

Prep Date.....: 01/29/04
Prep Batch #...: 4030185

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	0.10	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO	90	(75 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: I4A220251
MB Lot-Sample #: I4A230000-437

Work Order #....: F8GVD1AA

Matrix.....: WATER

Prep Date.....: 01/23/04

Analysis Date...: 01/23/04

Prep Batch #....: 4023437

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	102	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	105	(73 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I4A220251
MB Lot-Sample #: I4A300000-197

Work Order #...: F8RXD1AA

Matrix.....: WATER

Prep Date.....: 01/29/04

Prep Batch #...: 4030197

Analysis Date...: 01/29/04

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	93	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	94	(73 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I4A220251
MB Lot-Sample #: I4A230000-290

Work Order #...: F8F1V1AA

Matrix.....: WATER

Analysis Date...: 01/26/04
Dilution Factor: 1

Prep Date.....: 01/23/04
Prep Batch #...: 4023290

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	82	(53 - 139)
Dotriacontane	102	(45 - 141)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I4A220251

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chloride	ND	Work Order #: F8F9N1AA		MB Lot-Sample #:	I4A230000-369	
		1.0	mg/L	MCAWW 300.0A	01/23/04	4023369
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I4A220251 Work Order #...: F8JDD1AC Matrix.....: WATER
LCS Lot-Sample#: I4A260000-155
Prep Date.....: 01/22/04 Analysis Date...: 01/22/04
Prep Batch #...: 4026155
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	106	(85 - 115)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	98	(81 - 123)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A220251 Work Order #....: F8RWR1AC Matrix.....: WATER
LCS Lot-Sample#: I4A300000-185
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	86	(85 - 115)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	86	(81 - 123)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A220251 Work Order #....: F8GVD1AC Matrix.....: WATER
LCS Lot-Sample#: I4A230000-437
Prep Date.....: 01/22/04 Analysis Date...: 01/22/04
Prep Batch #....: 4023437
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	91	(85 - 115)	SW846 8021B
Ethylbenzene	99	(85 - 115)	SW846 8021B
Toluene	90	(85 - 115)	SW846 8021B
Xylenes (total)	94	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	98	(85 - 115)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	104	(84 - 114)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A220251 Work Order #....: F8RXD1AC Matrix.....: WATER
 LCS Lot-Sample#: I4A300000-197
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #....: 4030197
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	110	(85 - 115)	SW846 8021B
Ethylbenzene	109	(85 - 115)	SW846 8021B
Toluene	104	(85 - 115)	SW846 8021B
Xylenes (total)	107	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	109	(85 - 115)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	98	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	100	(84 - 114)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: I4A220251 Work Order #...: F8F1V1AC Matrix.....: WATER
LCS Lot-Sample#: I4A230000-290
Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
Prep Batch #...: 4023290
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	108	(51 - 127)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	87	(28 - 131)
Dotriacontane	102	(37 - 139)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: I4A220251

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	97	Work Order #: F8F9N1AC LCS Lot-Sample#: I4A230000-369 (85 - 106)	MCAWW 300.0A	01/23/04	4023369
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A220251 Work Order #....: F8D9H1AH-MS Matrix.....: WATER
MS Lot-Sample #: I4A220251-001 F8D9H1AJ-MSD
Date Sampled....: 01/21/04 14:20 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
Prep Batch #....: 4026155
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	116	(79 - 124)			SW846 8015B
	117	(79 - 124)	0.79	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	100	(75 - 122)
	102	(75 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I4A220251 Work Order #...: F8FPV1AF-MS Matrix.....: WATER
 MS Lot-Sample #: I4A230164-001 F8FPV1AG-MSD
 Date Sampled...: 01/22/04 09:30 Date Received...: 01/23/04
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #...: 4030185
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	89	(79 - 124)			SW846 8015B
	78 a, MSC	(79 - 124)	12	(0-30)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	93	(75 - 122)
	93	(75 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I4A220251 Work Order #...: F8EAC1AG-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220251-006 F8EAC1AH-MSD
 Date Sampled...: 01/21/04 10:00 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 01/23/04
 Prep Batch #...: 4023437
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	123 a, MSC	(85 - 115)			SW846 8021B
	124 a, MSC	(85 - 115)	1.5	(0-30)	SW846 8021B
Ethylbenzene	128 a, MSC	(85 - 115)			SW846 8021B
	129 a, MSC	(85 - 115)	0.61	(0-30)	SW846 8021B
Toluene	120 a, MSC	(85 - 115)			SW846 8021B
	122 a, MSC	(85 - 115)	2.2	(0-30)	SW846 8021B
Xylenes (total)	122 a, MSC	(85 - 115)			SW846 8021B
	124 a, MSC	(85 - 115)	1.5	(0-30)	SW846 8021B
Methyl tert-butyl ether	122 a, MSC	(85 - 115)			SW846 8021B
	122 a, MSC	(85 - 115)	0.15	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(81 - 119)
	103	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	106	(73 - 135)
	106	(73 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A220251 Work Order #....: F8D9P1AH-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220251-003 F8D9P1AJ-MSD
 Date Sampled....: 01/21/04 15:15 Date Received...: 01/22/04
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #....: 4030197
 Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	67 a, MSC	(85 - 115)			SW846 8021B
	238 a, MSC	(85 - 115)	11	(0-30)	SW846 8021B
Ethylbenzene	87	(85 - 115)			SW846 8021B
	112	(85 - 115)	11	(0-30)	SW846 8021B
Toluene	84 a, MSC	(85 - 115)			SW846 8021B
	102	(85 - 115)	12	(0-30)	SW846 8021B
Xylenes (total)	84 a, MSC	(85 - 115)			SW846 8021B
	102	(85 - 115)	11	(0-30)	SW846 8021B
Methyl tert-butyl ether	138 a, MSC	(85 - 115)			SW846 8021B
	145 a, MSC	(85 - 115)	4.1	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(81 - 119)
	101	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	197 *	(73 - 135)
	195 *	(73 - 135)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: I4A220251 Work Order #....: F8EAA1AF-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220251-005 F8EAA1AG-MSD
 Date Sampled....: 01/21/04 09:30 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 01/26/04
 Prep Batch #....: 4023290
 Dilution Factor: 0.95

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	101	(40 - 126)			SW846 8015B
	105	(40 - 126)	3.3	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	86	(53 - 139)
	91	(53 - 139)
Dotriacontane	94	(45 - 141)
	102	(45 - 141)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: I4A220251

Matrix.....: WATER

Date Sampled...: 01/21/04 14:20 Date Received...: 01/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#: F8D9H1AF-MS/F8D9H1AG-MSD	MS	Lot-Sample #:	I4A220251-001
	103	(85 - 106)		MCAWW 300.0A	01/23/04	4023369
	105	(85 - 106)	0.70 (0-22)	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.

EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.

EPA 8151A: Laboratory utilizes alternate extraction solvent.

Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.

EPA TO-12: Samples are not analyzed in duplicate.

EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

SEVERN
TRENT

STL

CHAIN-OF-CUSTODY ADDENDUM

I4A220251

Lot No: I4A220251RECEIVED BY: RT

COC NUMBER: _____

DATE/TIME RECEIVED: 1-22-04/0900QUOTE/PROFILE: 55401UNPACKED DATE/TIME: 1-22-04/1000CLIENT/PROJECT: Maxim Tech

SAMPLES LOGGED IN: _____ LOG-IN REVIEWED: _____

Number of Shipping Containers Received
with Chain of Custody 3CL RTVOC AIR / FILTER SAMPLES ☐ YES SEE SECTIONS 1.0, 2.0, & 6.01.0 CONTAINERS EXAMINED UPON RECEIPT: RTContainer Sealed: ☒ YES ☐ NO Custody Seal Signed/Dated: ☒ YES ☐ NOCustody Seal Present: ☒ YES ☐ NO Containers checked for radioactivity: ☐ YES ☒ NO

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO Samples Received Match Chain: ☐ YES ☐ NOCanister Valves Capped: ☐ YES ☐ NO See Additional Comments: ☐ YES ☐ NOPacking Material Used: (circle) Can Size: ☐ 6L ☐ 15L Other _____

None / Absorbent / Paper / Bubble Wrap

3.0 SAMPLE TEMPERATURE UPON RECEIPT: RT PYROMETER #: P-5

The temperature of the container(s) is: [acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]

50°C	50°C	60°C									

If temperature is outside acceptable tolerance, Project Manager was notified (____ PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NOPRESERVATION OF SAMPLES REQUIRED: ☐ NA ☒ YES VERIFIED BY: RTBase samples are >pH 12: ☐ YES ☐ NO Acid preserved are <pH 2: ☒ YES ☐ NOCyanide samples checked for sulfides: ☐ YES Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NOSamples checked for chlorine per specification: ☐ YES Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (____ PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: LT

Samples received match COC:

☒ YES☐ NO

Bottles received intact:

☒ YES☐ NO

See additional discrepancies/comments section:

☒ YES☒ NO

Samples received from USDA restricted area:

☐ YES☒ NO

Chain-of-Custody form properly maintained:

☒ YES☐ NOVOA trip blanks included: 3x40ml☒ YES☐ NO☐ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		Comments
Sample ID	Date/Time	Sample ID	Date/Time	

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC:

☒ YES☐ NO

Air bill #:

Hand-delivered Carrier:

Date:

Time:

7.0 OTHER COMMENTS:

1x40ml for MW-18 broken

CORRECTIVE ACTION:

Client's Name:

Informed verbally on:

By:

Client's Name:

Informed verbally on:

By:

Sample(s) processed "as is" comments:

Samples(s) on hold until:

If released, notify:

REVIEW:

COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS.

☐ YES☒ N/AProject Management: MWDate: 11/25/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

Chain of Custody Record

CHAIN OF CUSTODY NUMBER

\$9010445-001

SEVERN
TRENT

Severn Trent Laboratories, Inc.

024743

STL4149 (1202)

Client		Project Manager		Date		Page 1 of 1	
Maxia Technologies		Greg Pope		01/14/2004			
Address		Telephone Number (Area Code)/Fax Number		Lab Location			
1703 W Industrial Ave		(432) 586-8081 / (000)		STL Austin			
City		State		Zip Code			
Midland		TX		79701			
Project Number/Name		Carrier/Waybill Number					
3373 F HOBBS JCT INVESTIGATION QTRLY GWM		FEDEX 83613456731					
Contract/Purchase Order/Quote Number							

CONTRACT / PURCHASE ORDER # : 3373MAY003

QUOTE: 55401

Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Containers Type	No.	Preservative	Condition on Receipt/Comments	Analysis
MW-21	1-21-04	930	WATER	1L	AMBER	3	None	500 RT / 1-22-04	Y Y
MW-21		930	WATER	400L	VIAL	4	1.1 HCL	Good	Y Y
MW-21		930	WATER	2500L	PLASTIC	1	None		Y
MW-16		1000	WATER	1L	AMBER	2	None		Y
MW-16		1000	WATER	400L	VIAL	4	1.1 HCL		Y
MW-16		1000	WATER	2500L	PLASTIC	1	None		Y
MW-20		1030	WATER	1L	AMBER	2	None		Y
MW-20		1030	WATER	400L	VIAL	4	1.1 HCL		Y
MW-20		1030	WATER	2500L	PLASTIC	1	None		Y
MW-20	1-21-04	1030	WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
MW-20			WATER	400L	VIAL	4	1.1 HCL		Y
MW-20			WATER	2500L	PLASTIC	1	None		Y
MW-20			WATER	1L	AMBER	2	None		Y
M									

Chain of Custody Record

CHAIN OF CUSTODY NUMBER

§8010445-002

SEVERN
TRENT

STL

Severn Trent Laboratories, Inc.

STL4149 (1202)

Client		Project Manager		Date		Page 2 of 5	
Maxin Technologies		Greg Pope		01/14/2004			
Address		Telephone Number (Area Code)/Fax Number		Lab Location			
1703 W Industrial Ave		(432) 686-8081 / (000)		STL Austin			
City		State		Zip Code			
Midland		TX		79701			
Project Number/Name		Carrier/Waybill Number					
3373 E HOBBS JCT INTERSECTION - QTRLY GWM		FED EX 841860263547					
Contract/Purchase Order/Quote Number							
CONTRACT / PURCHASE ORDER # 3373MAY003							

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	Analysis									
				Volume	Type	No.			G	T	I	C	P	P	C	H	H	C
MW-23	1-21-04	1115	WATER	1L	AMBER	2	None	6°C / 1-22-04										
MW-23		1115	WATER	40mL	VIAL	4	1.1 HCL	6°C										
MW-23		1115	WATER	250mL	PLASTIC	1	None											
MW-22		1145	WATER	1L	AMBER	2	None											
MW-22		1145	WATER	40mL	VIAL	4	1.1 HCL											
MW-22		1145	WATER	250mL	PLASTIC	1	None											
MW-13		1220	WATER	1L	AMBER	2	None											
MW-13		1220	WATER	40mL	VIAL	4	1.1 HCL											
MW-13		1220	WATER	250mL	PLASTIC	1	None											
MW-19		1350	WATER	1L	AMBER	2	None											
MW-19		1350	WATER	40mL	VIAL	4	1.1 HCL											
MW-19		1350	WATER	250mL	PLASTIC	1	None											
TRIP BLANK 2	1-21-04	1635	WATER	40mL	VIAL	1	HCL											

Special Instructions TPH-GNO & DRO, 8021 BTEX

Possible Hazard Identification		Sample Disposal		Project Specific Requirements (Specify)	
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Return To Client	☒ Disposal By Lab
☒ Turn Around Time Required	☐ Rush	☐ Other	☐ QC Level	☐ Archive For	☐ Months
1. Relinquished By	2. Relinquished By	3. Relinquished By	1. Received By	2. Received By	3. Received By
Date	Date	Date	Date	Date	Date
1-14-04	1-21-04	1-21-04	1-16-04	1-22-01	1-22-01
Time	Time	Time	Time	Time	Time
1645	1635	1635	800	0900	0900

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

STL4149 (1202)

74A2023

CHAIN OF CUSTODY NUMBER

30010445-003

SEVERN
TRENT

024745

Severn Trent Laboratories, Inc.

Client Maxin Technologies		Project Manager Greg Pope		Date 01/14/2004		Page 3 of 5	
Address 1703 W Industrial Ave		Telephone Number (Area Code)/Fax Number (432) 586-8081 / (000)		Lab Location STL Austin		Analysis	
City TX		State TX		Zip Code 79701			
Midland		Carrier/Weibull Number FED EX 841860263536					
Project Number/Name 3373 E HOBBS JOY INVESTIGATION		Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # 3373MAX003		QUOTE # 55401			
Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Containers Type No.	Preservative	Condition on Receipt/Comments
MW-14	1-21-04	1420	WATER	1L	AMBER 2	None	500627/1-22-04
MW-14		1420	WATER	400L	VIAL 4	1:1 HCL	Spec. LOC. Add
MW-14		1420	WATER	250L	PLASTIC 1	None	AT-120
MW-18		1445	WATER	1L	AMBER 2	None	
MW-18		1445	WATER	400L	VIAL 4	1:1 HCL	1 hour later
MW-18		1445	WATER	250L	PLASTIC 1	None	
MW-12		1515	WATER	1L	AMBER 2	None	
MW-12		1515	WATER	400L	VIAL 4	1:1 HCL	
MW-12		1515	WATER	250L	PLASTIC 1	None	
	1-21-04	1640	WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	
			WATER	400L	VIAL 4	1:1 HCL	
			WATER	250L	PLASTIC 1	None	
			WATER	1L	AMBER 2	None	

**STL****Certificate of Analysis**

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ANALYTICAL REPORT

PROJECT NO. HOBBS, NM

3373 E Hobbs Jct Qtrly GWM

Lot #: I4A230164

Greg Pope

Maxim Technologies
1703 W Industrial Ave
Midland, TX 79701

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in cursive script that reads "Carla Butler".

Carla M. Butler
Project Manager

February 6, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative**STL LOT NUMBER: I4A230164**

This report contains the analytical results for the four samples received under chain of custody by Severn Trent Laboratories (STL) on January 23, 2004. These samples are associated with your 3373 E Hobbs Jct Qtrly GWM project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (512) 244-0855.

Affected Samples:

I4A230164 (1):

I4A230164 (2):

I4A230164 (3):

Affected Methods:

8015B

Details:

There was insufficient sample volume provided to prepare a project-specific MS/MSD or duplicate. A duplicate LCS was prepared to provide accuracy and precision measurements for the samples in this project.

Corrective Action:

None.

EXECUTIVE SUMMARY - Detection Highlights**I4A230164**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SVE-10 01/22/04 09:30 001				
Diesel Range Organics	0.42	0.048	mg/L	SW846 8015B
Benzene	1.7	1.0	ug/L	SW846 8021B
Ethylbenzene	2.0	1.0	ug/L	SW846 8021B
Toluene	1.0	1.0	ug/L	SW846 8021B
Chloride	265	50.0	mg/L	MCAWW 300.0A
MW-4 01/22/04 10:00 002				
Chloride	176	50.0	mg/L	MCAWW 300.0A
MW-5 01/22/04 11:20 003				
Gasoline Range Organics	0.16	0.10	mg/L	SW846 8015B
Benzene	32	1.0	ug/L	SW846 8021B
Ethylbenzene	1.1	1.0	ug/L	SW846 8021B
Toluene	12	1.0	ug/L	SW846 8021B
Chloride	179	50.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

I4A230164

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

I4A230164

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	David A. Tocher	800002
SW846 8015B	Beth Driskill	008945
SW846 8015B	Ellen Grett	014902
SW846 8021B	Beth Driskill	008945

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
 EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
 Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY**I4A230164**

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F8FPV	001	SVE-10	01/22/04	09:30
F8FQC	002	MW-4	01/22/04	10:00
F8FQE	003	MW-5	01/22/04	11:20
F8FQF	004	TRIP BLANK 4	01/22/04	11:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4A230164

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4026275	
	WATER	SW846 8015B		4030185	4030069
	WATER	SW846 8021B		4030197	4030073
002	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4026275	
	WATER	SW846 8015B		4030185	4030069
	WATER	SW846 8021B		4030197	4030073
003	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4026275	
	WATER	SW846 8015B		4030185	4030069
	WATER	SW846 8021B		4030197	4030073
004	WATER	SW846 8015B		4030185	4030069
	WATER	SW846 8021B		4030197	4030073

CONOCOPHILLIPS

Client Sample ID: SVE-10

GC Volatiles

Lot-Sample #....: I4A230164-001 Work Order #....: F8FPV1AA Matrix.....: WATER
Date Sampled...: 01/22/04 09:30 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	92	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: SVE-10

GC Volatiles

Lot-Sample #....: I4A230164-001 Work Order #....: F8FPV1AD Matrix.....: WATER
Date Sampled....: 01/22/04 09:30 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030197
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	1.7	1.0	ug/L
Ethylbenzene	2.0	1.0	ug/L
Toluene	1.0	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	95	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	117	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: SVE-10

GC Semivolatiles

Lot-Sample #....: I4A230164-001 Work Order #....: F8FPV1AC Matrix.....: WATER
Date Sampled....: 01/22/04 09:30 Date Received...: 01/23/04
Prep Date.....: 01/26/04 Analysis Date...: 02/03/04
Prep Batch #....: 4026275
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.42	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	99	(53 - 139)
Dotriacontane	102	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: SVB-10

General Chemistry

Lot-Sample #...: I4A230164-001 Work Order #...: F8FPV
Date Sampled...: 01/22/04 09:30 Date Received...: 01/23/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	265	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #....: I4A230164-002 Work Order #....: F8FQC1AA Matrix.....: WATER
Date Sampled....: 01/22/04 10:00 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	87	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #....: I4A230164-002 Work Order #....: F8FQC1AD Matrix.....: WATER
Date Sampled....: 01/22/04 10:00 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030197
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	91	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	93	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-4

GC Semivolatiles

Lot-Sample #....: I4A230164-002 Work Order #....: F8FQC1AC Matrix.....: WATER
Date Sampled....: 01/22/04 10:00 Date Received...: 01/23/04
Prep Date.....: 01/26/04 Analysis Date...: 02/03/04
Prep Batch #....: 4026275
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	102	(53 - 139)
Dotriacontane	108	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-4

General Chemistry

Lot-Sample #...: I4A230164-002 Work Order #...: F8FQC Matrix.....: WATER
Date Sampled...: 01/22/04 10:00 Date Received...: 01/23/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	176	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: MW-5

GC Volatiles

Lot-Sample #....: I4A230164-003 Work Order #....: F8FQE1AA Matrix.....: WATER
Date Sampled....: 01/22/04 11:20 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	0.16	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	88	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: MW-5

GC Volatiles

Lot-Sample #....: I4A230164-003 Work Order #....: F8FQE1AD Matrix.....: WATER
Date Sampled....: 01/22/04 11:20 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030197
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	32	1.0	ug/L
Ethylbenzene	1.1	1.0	ug/L
Toluene	12	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	91	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	124	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: MW-5

GC Semivolatiles

Lot-Sample #....: I4A230164-003 Work Order #....: F8FQE1AC Matrix.....: WATER
Date Sampled....: 01/22/04 11:20 Date Received...: 01/23/04
Prep Date.....: 01/26/04 Analysis Date...: 02/03/04
Prep Batch #....: 4026275
Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Diesel Range Organics	ND	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	98	(53 - 139)
Dotriacontane	105	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: MW-5

General Chemistry

Lot-Sample #...: I4A230164-003 Work Order #...: F8FQE
Date Sampled...: 01/22/04 11:20 Date Received...: 01/23/04

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	179	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 4

GC Volatiles

Lot-Sample #....: I4A230164-004 Work Order #....: F8FQF1AA Matrix.....: WATER
Date Sampled....: 01/22/04 11:30 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	88	(75 - 122)

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK 4

GC Volatiles

Lot-Sample #....: I4A230164-004 Work Order #....: F8FQF1AC Matrix.....: WATER
Date Sampled....: 01/22/04 11:30 Date Received...: 01/23/04
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030197
Dilution Factor: 1 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	3.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	93	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	94	(73 - 135)

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: I4A230164
MB Lot-Sample #: I4A300000-185

Work Order #....: F8RWR1AA

Matrix.....: WATER

Analysis Date...: 01/29/04
Dilution Factor: 1

Prep Date.....: 01/29/04

Prep Batch #....: 4030185

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	0.10	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene (GRO)	90	(75 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: I4A230164
MB Lot-Sample #: I4A300000-197

Work Order #....: F8RXD1AA

Matrix.....: WATER

Analysis Date...: 01/29/04
Dilution Factor: 1

Prep Date.....: 01/29/04
Prep Batch #....: 4030197

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8021B
Ethylbenzene	ND	1.0	ug/L	SW846 8021B
Toluene	ND	1.0	ug/L	SW846 8021B
Xylenes (total)	ND	3.0	ug/L	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	93	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	94	(73 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: I4A230164
MB Lot-Sample #: I4A260000-275

Work Order #....: F8JNR1AA

Matrix.....: WATER

Analysis Date...: 02/03/04
Dilution Factor: 1

Prep Date.....: 01/26/04

Prep Batch #....: 4026275

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	99	(53 - 139)
Dotriacontane	103	(45 - 141)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: I4A230164

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chloride	ND	Work Order #: F8F9N1AA		MB Lot-Sample #:	I4A230000-369	
		1.0	mg/L	MCAWW 300.0A	01/23/04	4023369
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A230164 Work Order #....: F8RWR1AC Matrix.....: WATER
LCS Lot-Sample#: I4A300000-185
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030185
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	86	(85 - 115)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	86	(81 - 123)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A230164 Work Order #....: F8RXD1AC Matrix.....: WATER
LCS Lot-Sample#: I4A300000-197
Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
Prep Batch #....: 4030197
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	110	(85 - 115)	SW846 8021B
Ethylbenzene	109	(85 - 115)	SW846 8021B
Toluene	104	(85 - 115)	SW846 8021B
Xylenes (total)	107	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	109	(85 - 115)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	98	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	100	(84 - 114)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: I4A230164 Work Order #...: F8JNR1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I4A260000-275 F8JNR1AD-LCSD
Prep Date.....: 01/26/04 Analysis Date...: 02/03/04
Prep Batch #...: 4026275
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	98	(51 - 127)			SW846 8015B
	107	(51 - 127)	9.3	(0-28)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	95	(28 - 131)
	108	(28 - 131)
Dotriacontane	97	(37 - 139)
	112	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I4A230164

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	97	Work Order #: F8F9N1AC LCS Lot-Sample#: I4A230000-369 (85 - 106)	MCAWW 300.0A	01/23/04	4023369
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A230164 Work Order #....: F8FPV1AF-MS Matrix.....: WATER
 MS Lot-Sample #: I4A230164-001 F8FPV1AG-MSD
 Date Sampled...: 01/22/04 09:30 Date Received...: 01/23/04
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #....: 4030185
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	89	(79 - 124)			SW846 8015B
	78 a, MSC	(79 - 124)	12	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	93	(75 - 122)
	93	(75 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I4A230164 Work Order #....: F8D9P1AH-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220251-003 F8D9P1AJ-MSD
 Date Sampled....: 01/21/04 15:15 Date Received...: 01/22/04
 Prep Date.....: 01/29/04 Analysis Date...: 01/29/04
 Prep Batch #....: 4030197
 Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	67 a, MSC	(85 - 115)			SW846 8021B
	238 a, MSC	(85 - 115)	11	(0-30)	SW846 8021B
Ethylbenzene	87	(85 - 115)			SW846 8021B
	112	(85 - 115)	11	(0-30)	SW846 8021B
Toluene	84 a, MSC	(85 - 115)			SW846 8021B
	102	(85 - 115)	12	(0-30)	SW846 8021B
Xylenes (total)	84 a, MSC	(85 - 115)			SW846 8021B
	102	(85 - 115)	11	(0-30)	SW846 8021B
Methyl tert-butyl ether	138 a, MSC	(85 - 115)			SW846 8021B
	145 a, MSC	(85 - 115)	4.1	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(81 - 119)
	101	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	197 *	(73 - 135)
	195 *	(73 - 135)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I4A230164

Matrix.....: WATER

Date Sampled...: 01/21/04 14:20 Date Received...: 01/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#: F8D9H1AF-MS/F8D9H1AG-MSD	MS Lot-Sample #: I4A220251-001		
	103	(85 - 106)		MCAWW 300.0A	01/23/04	4023369
	105	(85 - 106)	0.70 (0-22)	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.

EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.

EPA 8151A: Laboratory utilizes alternate extraction solvent.

Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.

EPA TO-12: Samples are not analyzed in duplicate.

EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

STL

Lot No: 24 A730164

RECEIVED BY: [Signature]

COC NUMBER:

DATE/TIME RECEIVED: 1-24-04 0845

QUOTE/PROFILE:

UNPACKED DATE/TIME: 1-24-04 1000

CLIENT/PROJECT:

SAMPLES LOGGED IN: LOG-IN REVIEWED:

Number of Shipping Containers Received
with Chain of Custody _____

cc dy

VOC AIR / FILTER SAMPLES ☐ **YES** **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: 22

Container Sealed: ☒ YES ☐ NO Custody Seal Signed/Dated: ☐ YES ☒ NO

Custody Seal Present: ☒ YES ☐ NO Containers checked for radioactivity: ☐ YES ☐ NO ☒ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle) Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC IR THERMOMETER #: PS

The temperature of the container(s) is: [acceptable tolerance $4^{\circ}\text{C} \pm 2^{\circ}$; (NC, WI: $1\text{-}4.4^{\circ}\text{C}$)]

[illegible]

If temperature is outside acceptable tolerance, Project Manager was notified (PM). Date: Time:

Samples received do not require cooling _____ OK to analyze samples: ☒ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☒ YES VERIFIED BY: CC

Base samples are >pH 12: ☐ YES ☐ NO Acid preserved are <pH 2: ☒ YES ☐ NO

Cyanide samples checked	Sulfide samples appear
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
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36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

for sulfides: ☐ YES to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine Free chlorine present: ☐ YES ☐ NO

per specification: ☐ YES

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____ PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERSVERIFIED BY: CC

Samples received match COC:

☒ YES ☐ NO

Bottles received intact:

☒ YES ☐ NO

See additional discrepancies/comments section:

☐ YES ☒ NO

Samples received from USDA restricted area:

☐ YES ☒ NO

Chain-of-Custody form properly maintained:

☒ YES ☐ NO

VOA trip blanks included:

1x42m ☒ YES ☐ NO ☐ N/A**5.0 ADDITIONAL DISCREPANCIES**

Appears on COC		Appears on Label		Comments
Sample ID	Date/Time	Sample ID	Date/Time	

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC:

☒ YES ☐ NO

Air bill #:

Hand-delivered Carrier:

Date:

Time:

7.0 OTHER COMMENTS:**CORRECTIVE ACTION:**

Client's Name:

Informed verbally on:

By:

Client's Name:

Informed verbally on:

By:

Sample(s) processed "as is" comments:

Samples(s) on hold until:

If released, notify:

REVIEW:Project Management: mb

Date:

1/26/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

14A2301

SEVERN
TRENT
STL
024746

Chain of Custody
Record

CHAIN OF CUSTODY NUMBER
98010445-004

Severn Trent Laboratories, Inc.

STL4149 (1202)

Client		Project Manager		Date		Page	
Maxia Technologies		Greg Pope		01/14/2004		1 of 5	
Address		Telephone Number (Area Code)/Fax Number		Lab Location			
1703 W Industrial Ave		(432) 686-8081 / (000)		STL Austin			
City		State		Zip Code			
Midland		TX		79701			
Project Number/Name		Carrier/Waybill Number					
3373 A HORBS JCT INVESTIGATION QTR GUAM		FED EX 841860263503					
Contract/Purchase Order/Quote Number							

CONTRACT / PURCHASE ORDER # 3373NA1003

QUOTE: 55401

Sample I.D. Number and Description	Date	Time	Sample Type	Volume	Containers	Preservative	Condition on Receipt/Comments
TRIP BLANK X 4	1-22-04	1130	WATER	40ML	VIAL	1:1 HCL	300 1-22-04-CC
SVE-10		930		1L	AMBER	NONE	SEEALCC
SVE-10		930		40ML	VIAL	HCL	
SVE-10		930		250ML	PLASTIC	NONE	
MW-4		1000		1L	AMBER	NONE	
MW-4		1000		40ML	VIAL	HCL	
MW-4		1000		250ML	PLASTIC	NONE	
MW-5		1120		1L	AMBER	NONE	
MW-5		1120		40ML	VIAL	HCL	
MW-5	1-22-04	1120	WATER	250ML	PLASTIC	NONE	

Special Instructions
TPE-CRO & DRO, 8021 BTEX

Possible Hazard Identification		Sample Disposal		Project Specific Requirements (Specify)	
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Return To Client
Turn Around Time Required		QC Level		Project Specific Requirements (Specify)	
☒ Normal	☐ Rush	☒ I.	☐ II.	☐ III.	
1. Relinquished By		Date	Time	1. Received By	
[Signature]		1-14-04	1645	[Signature]	
2. Relinquished By		Date	Time	2. Received By	
[Signature]		1-22-04	1145	[Signature]	
3. Relinquished By		Date	Time	3. Received By	

Comments

DISTRIBUTION: WHITE - Slays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HIGGINS & ASSOCIATES
ATTN: CHRIS HIGGINS
8200 S. AKRON, SUITE 117
CENTENNIAL, CO 80112
FAX TO: (303) 708-9848 &
(505) 985-0031

Receiving Date: 06/26/03
Reporting Date: 06/27/03
Project Owner: CONOCO-PHILLIPS
Project Name: HOBBS EAST
Project Location: HOBBS, NM
Sample ID: HOBBS EAST SVE EFFLUENT
Lab Number: H7768-1

Analysis Date: 06/26/03
Sampling Date: 06/26/03
Sample Type: AIR (TEDLAR BAG)
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES IN AIR 8260 (mg/M ³)		Sample Result H7768-1	Method Blank	QC	%Recov.	True Value QC
1	Dichlorodifluoromethane	<0.200	<0.200	77.2	77.2	100
2	Chloromethane	<0.200	<0.200	86.5	86.5	100
3	Vinyl chloride	<0.200	<0.200	80.8	80.8	100
4	Bromomethane	<0.200	<0.200	82.5	82.5	100
5	Chloroethane	<0.200	<0.200	84.5	84.5	100
6	Iodomethane	<0.200	<0.200	93.4	93.4	100
7	1,1-Dichloroethene	<0.200	<0.200	96.0	96.0	100
8	Trichlorofluoromethane	<0.200	<0.200	97.3	97.3	100
9	Carbon Disulfide	<0.200	<0.200	82.7	82.7	100
10	Methylene chloride*	0.678	0.641	101	101	100
11	trans-1,2-Dichloroethene	<0.200	<0.200	93.4	93.4	100
12	1,1-Dichloroethane	<0.200	<0.200	92.3	92.3	100
13	2-Butanone	<5.00	<5.00	118	118	100
14	cis-1,2-Dichloroethene	<0.200	<0.200	95.0	95.0	100
15	2,2-Dichloropropane	<0.200	<0.200	92.6	92.6	100
16	Chloroform	<0.200	<0.200	88.5	88.5	100
17	Bromochloromethane	<0.200	<0.200	109	109	100
18	1,1,1-Trichloroethane	<0.200	<0.200	92.0	92.0	100
19	1,2-Dichloroethane	<0.200	<0.200	103	103	100
20	1,1-Dichloropropene	<0.200	<0.200	94.4	94.4	100
21	Benzene	4.76	<0.200	95.6	95.6	100
22	Carbon tetrachloride	<0.200	<0.200	97.6	97.6	100
23	Trichloroethene	<0.200	<0.200	97.2	97.2	100
24	Dibromomethane	<0.200	<0.200	119	119	100
25	Bromodichloromethane	<0.200	<0.200	94.8	94.8	100
26	(2-Chloroethoxy)ethene	<0.200	<0.200	115	115	100
27	trans-1,3-Dichloropropene	<0.200	<0.200	118	118	100
28	4-Methyl-2-pentanone	<5.00	<5.00	111	111	100
29	1,2-Dichloropropane	<0.200	<0.200	102	102	100
30	cis-1,3-Dichloropropene	<0.200	<0.200	114	114	100
31	Toluene	5.78	<0.200	94.0	94	100

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ATTN: CHRIS HIGGINS
8200 S. AKRON, SUITE 117
CENTENNIAL, CO 80112
FAX TO: (303) 708-9848 &
(505) 985-0031

Receiving Date: 06/26/03
Reporting Date: 06/27/03
Project Owner: CONOCO-PHILLIPS
Project Name: HOBBS EAST
Project Location: HOBBS, NM
Sample ID: HOBBS EAST SVE EFFLUENT
Lab Number: H7768-1

Analysis Date: 06/26/03
Sampling Date: 06/26/03
Sample Type: AIR (TEDLAR BAG)
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES IN AIR 8260 (mg/M ³)		Sample Result H7768-1	Method Blank	True Value QC %Recov. QC	
32	1,1,2-Trichloroethane	<0.200	<0.200	103	100
33	1,3-Dichloropropane	<0.200	<0.200	110	100
34	2-Hexanone	<5.00	<5.00	110	100
35	Dibromochloromethane	<0.200	<0.200	109	100
36	1,2-Dibromoethane	<0.200	<0.200	113	100
37	Tetrachloroethene	<0.200	<0.200	93.5	100
38	Chlorobenzene	<0.200	<0.200	98.4	100
39	1,1,1,2-Tetrachloroethane	<0.200	<0.200	99.7	100
40	Ethylbenzene	0.786	<0.200	88.1	100
41	m, p - Xylene	3.27	<0.400	175	200
42	Bromoform	<0.200	<0.200	118	100
43	Styrene	<0.200	<0.200	91.2	100
44	o-Xylene	0.104	<0.200	88.7	100
45	1,1,2,2-Tetrachloroethane	<0.200	<0.200	118	100
46	1,2,3-Trichloropropane	<0.200	<0.200	113	100
47	Isopropylbenzene	<0.200	<0.200	89.8	100
48	Bromobenzene	<0.200	<0.200	98.8	100
49	2-Chlorotoluene	<0.200	<0.200	86.4	100
50	n-propylbenzene	0.293	<0.200	96.7	100
51	4-Chlorotoluene	<0.200	<0.200	88.1	100
52	1,3,5-Trimethylbenzene	0.527	<0.200	91.9	100
53	tert-Butylbenzene	<0.200	<0.200	91.0	100
54	1,2,4-Trimethylbenzene	1.15	<0.200	89.8	100
55	1,3-Dichlorobenzene	<0.200	<0.200	92.3	100
56	sec-Butylbenzene	<0.200	<0.200	90.2	100
57	1,4 Dichlorobenzene*	0.382	0.272	102	100
58	4-Isopropyltoluene	<0.200	<0.200	97.1	100
59	1,2-Dichlorobenzene	<0.200	<0.200	98.3	100
60	n-Butylbenzene	<0.200	<0.200	87.5	100
61	1,2-dibromo-3-chloropropane	<0.200	<0.200	108	100
62	1,2,3-Trichlorobenzene	<0.200	<0.200	100	100

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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Lab Number: H7768-1

Analysis Date: 06/26/03
Sampling Date: 06/26/03
Sample Type: AIR (TEDLAR BAG)
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: BC

VOLATILES IN AIR 8260 (mg/M ³)	Sample Result H7768-1	Method Blank	QC	%Recov.	True Value QC
---	--------------------------	-----------------	----	---------	------------------

63	Hexachlorobutadiene	<0.200	<0.200	94.2	94.2	100
64	Naphthalene*	0.935	0.669	119	119	100
65	1,2,4-Trichlorobenzene	<0.200	<0.200	114	114	100

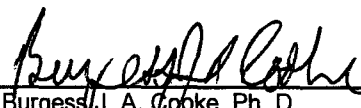
% Recovery

66	Dibromofluoromethane	90
67	Toluene-d8	87
68	4-Bromofluorobenzene	88

*Analyte detected at similar level in sample and method blank

METHODS: EPA SW-846-8260.

NOTE: Numerous aliphatic hydrocarbons not on the 8260 target list
were also detected.


Burgess J. A. Cooke, Ph. D.

6/27/03
Date

APPENDIX B
Documentation of Disposal Activities

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
100 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-117 A
Revised June 10, 2003

Submit 5 Copies to
Appropriate District Office

PERMIT NO. H-26295

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner Higgins & Associates Address 8200 S. Akron, Suite 117, Continental, CO 80112

Lease or Facility Name Hobbs East Conoco Phillips Remediation Site Location Sec 8, T19S, R39E
U.L. - Sec. - Twp. - Rge.

OPERATION TO BE PERFORMED:

☐ Tank Cleaning ☐ Sediment Oil Removal ☒ Transportation of Miscellaneous Hydrocarbons

Operator or Owner Representative authorizing work Nick Fisher

Date Work to be Performed September 11, 2003

TANK CLEANING DATA Tank Number _____ Volume _____

Tank Type _____ Volume Below Load Line _____

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATA

Sediment Oil from: ☐ Pit ☐ Cellar ☐ Other

MISCELLANEOUS OIL

Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☐ Refinery ☐ Other*

Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☒ Other*

☐ Pipeline Break Oil or Spill

*Other (Explain) Tank

VOLUME AND DESTINATION: Estimated Volume 100 Bbls. Field test volume of good oil _____ Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) Sundance Services

DESTRUCTION OF SEDIMENT OIL BY: ☐ Burning ☐ Pit Disposal ☐ Use on Roads or firewalls ☐ Other

(Explain) _____

Location of Destruction _____

Justification of Destruction _____

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Owner	Transporter <u>Key Energy Services</u>	
By	Address <u>418 S. Grimes, Hobbs, NM 88240</u>	
Title	Signature <u>Marte Peterson</u>	
E-mail Address	E-mail Address <u>dwade@keyenergy.com</u>	
Date	Title <u>Dispatcher</u>	Date <u>9/11/03</u>

OIL CONSERVATION DIVISION

Approved By Marte Peterson Title GEOLOGICAL / PETROLEUM TECHNICIAN Date SEP 11 2003

A COPY OF THIS FORM MUST BE ON LOCATION DURING TANK CLEANING, REMOVAL OF SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS, AND MUST BE PRESENTED WITH TANK BOTTOMS, SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

DISTRIBUTION BY OCD	
	Santa Fe
	File
☒	Operator
	Transporter (2)

3/16/04
District I
1025 N. French Dr., Hobbs, NM 88240
District II
1201 W. Grand Avenue, Artesia, NM 88210
District III
900 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

H-26844
Form C-117 A
Revised June 10, 2003

Submit 5 Copies to
Appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

PERMIT NO. _____

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner Maxim Technologies, Inc. (ConocoPhillips, Inc.) Address 1703 W. Industrial Ave., Midland, TX 79701

Lease or Facility Name East Hobbs Junction ConocoPhillips Remediation Site Location Sec8, T19S, R38E

U.L. - Sec. - Twp. - Rge.

OPERATION TO BE PERFORMED:

☐ Tank Cleaning ☐ Sediment Oil Removal ☒ Transportation of Miscellaneous Hydrocarbons

Operator or Owner Representative authorizing work Greg W. Pope

Date Work to be Performed February 10, 2004

TANK CLEANING DATA Tank Number _____ Volume _____

Tank Type _____ Volume Below Load Line _____

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATA

Sediment Oil from: ☐ Pit ☐ Cellar ☐ Other

MISCELLANEOUS OIL

Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☐ Refinery ☐ Other*

Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☒ Other*

☐ Pipeline Break Oil or Spill

*Other (Explain) Remediation System Product Recovery Tank

VOLUME AND DESTINATION: Estimated Volume 140 Bbls. Field test volume of good oil _____ Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) Sundance Services, Eunice, NM

DESTRUCTION OF SEDIMENT OIL BY: ☐ Burning ☐ Pit Disposal ☐ Use on Roads or firewalls ☐ Other

(Explain) _____

Location of Destruction _____

Justification of Destruction _____

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Owner <u>ConocoPhillips, Inc.</u>	Transporter <u>Key Energy Services</u>
By <u>Greg W. Pope (Maxim Technologies, Inc.)</u>	Address <u>418 S. Grimes, Hobbs, NM 88240</u>
Title <u>Project Manager PH 432-686-8081</u>	Signature _____
E-mail Address <u>gwpope57@aol.com</u>	E-mail Address <u>F 432-686.8085</u>
Date <u>February 9, 2004</u>	Title _____ Date _____

OIL CONSERVATION DIVISION

Approved By Jinda Williams Title Major Qual Date 2-11-04

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CERTIFICATE OF WASTE STATUS

EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: ConocoPhillips East Hobbs Junction Remediation Site

SOURCE: Remediation System Groundwater & Crude Oil Recovery Tank

DISPOSAL LOCATION: Sundance Services, Inc

Eunice, NM

As a condition of acceptance for disposal, I hereby certify
That this waste is an exempt waste as defined by the
Environmental Protection Agency's (EPA) July 1998 Regulatory
Determination and that non-exempt waste that is a "hazardous waste"
Pursuant to the provisions of 40 CFR Part 261, Subparts C & D,
Has not been added or mixed with the exempt waste in such a
Manner so as to make the resultant mixture a "hazardous waste",
Pursuant to the provisions of 40 CFR, Section 261.3 (b).

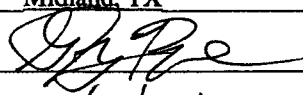
I, the undersigned as the agent for ConocoPhillips, Inc.
concur with the status of the waste from the subject site.

Name: Greg W. Pope

Title: Project Manager - Maxim Technologies

Address: 1703 W. Industrial Ave.

Midland, TX

Signature: 

Date: 2/11/04