

AP - 010

**ANNUAL
MONITORING REPORT**

YEAR(S):

2003 / 2004

AP-10

ANNUAL MONITORING, OPERATION AND MAINTENANCE REPORT

CONOCOPHILLIPS
LINE NMI-1 (AP-10)

HOBBS, LEA COUNTY, NEW MEXICO

RECEIVED

APR 01 2004

Oil Conservation Division
Environmental Bureau

Prepared for:


ConocoPhillips

Prepared By:

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

March 30, 2004



1703 W. Industrial Ave.
Midland, Texas 79701
(432) 686-8081

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 Line NMI-1
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 Line NMI-1 remediation site (Site). The Site is located in Lea County, New Mexico (Sec 9, T19S, R38E; Figure 1), approximately one mile south of the town of Hobbs. This report has been prepared in accordance with New Mexico Oil Conservation Division's (NMOCD) Discharge Permit GW-349 issued to ConocoPhillips for the Site, and is a summary of the following activities performed from May 2003 through February 2004:

- Groundwater Monitoring and Sampling
- Groundwater Extraction, Treatment and Re-injection
- Treated Groundwater Effluent Sampling
- Free Petroleum Hydrocarbon Gauging, Recovery and Disposal
- 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. All Site activities were performed according to the conditions described in Discharge Permit GW-349.

The previous Annual Monitoring Report for Line NMI-1, 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 1999 following the discovery of a release of crude oil from gathering line NMI-1. 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 crude oil recovery system, a groundwater extraction, treatment and re-injection system, and an enhanced-bioremediation system consisting of bio-venting and nutrient injection. Figure 1 illustrates the locations of the pipeline release excavation, the existing pipeline corridors, the Site monitoring and remediation wells, and the remediation system buildings and crude 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, 2003, October 15 and 16, 2003, and January 20, 2004. Accessible monitoring, recovery and remediation wells were measured for groundwater elevations prior to the sampling events. Additional groundwater elevation measurements were collected on June 23, 2003. Wells containing free product were not sampled, with the exception of EW-1 and EW-2. On July 14, 2003 and October 15 and 16, 2003, wells MW-13, EW-1, EW-2, IW-2, IW-3, IW-4, IW-5, IW-6, IW-7 and SVE-1 were sampled. On January 20, 2004, wells IW-2, IW-3, IW-4, IW-5, IW-6, IW-7 and SVE-1 were sampled. It was determined during this sampling event that the groundwater level in MW-13 was too low for sampling. Wells EW-1 and EW-2 were also not sampling during the January 20, 2004 event. 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 shown to be south-southeast at a gradient of 0.0015 feet per foot during the October 2003 and January 2004 events. Groundwater levels show an overall 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 three quarterly sampling events are included as Figures 3a, 3b, and 3c. 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.

GROUNDWATER EXTRACTION, TREATMENT AND RE-INJECTION

A summary of the groundwater extraction, treatment and effluent discharge volumes for each of the remediation wells and the air stripper tower is presented in Table 3. These data show

an overall totalizer accuracy of 90% between the amounts of groundwater extracted, treated and re-injected by the system. The injection well totalizers and solenoids have recently been rebuilt and a maintenance program to reduce calcium carbonate scaling in this equipment is currently being developed.

The amount of groundwater being extracted by wells EW-1 and EW-2 has decreased over time with a marked decrease seen in EW-1. This may be due to dewatering of the upper aquifer interval by the extraction system and an overall decrease in groundwater levels at the Site due to regional conditions. The wells may also need to be redeveloped as fine particles clog the wells screens over time.

GROUNDWATER EFFLUENT SAMPLING

The results of the monthly groundwater effluent discharge sampling are presented in Tables 4a and 4b, and the laboratory analytical data is included in Appendix A. The samples were collected from the groundwater effluent discharge stream into appropriate sample containers, placed in a cooler packed with ice, and shipped under chain-of-custody to an approved laboratory for analysis of BTEX by Method 8021B, and chloride by Method 300.0A. No detectable concentrations of BTEX have been reported in the effluent discharge samples. All effluent samples were reported with concentrations of chloride below the NMOCD standard for groundwater of 250 milligrams per liter (mg/L) except for the June 17, 2003 sample, which reported 376 mg/L.

FREE PETROLEUM HYDROCARBON GAUGING

Free-phase petroleum hydrocarbons were measured in wells MW-1, MW-3, MW-4, MW-5, MW-7 through MW-9, and EW-2 on June 23, 2003. On November 5, 2003 and January 19, 2004, free-phase petroleum hydrocarbons were measured in wells MW-1, MW-3 through MW-8, and SVE-5. The pneumatic pumps were removed from the recovery wells prior to measuring hydrocarbon thickness, and then reinstalled. Free-phase petroleum hydrocarbon isopleth maps for November 5, 2003 and January 19, 2004 are included as Figures 4a and 4b, respectively, and free-phase petroleum hydrocarbon measurements are summarized in Table 1.

FREE PETROLEUM HYDROCARBON RECOVERY

The pneumatic recovery system consisting of Durham Geo F.A.P. Plus pumps installed in wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, SVE-2, EW-1 and EW-2 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 recovery system compound (Figure 1). Additional crude oil is collected from the oil-water separator (OWS) into a containerized 55-gallon drum in the main remediation building. From April 20, 2002 to February 25, 2004, the system has recovered approximately 769 barrels of crude oil. The recovered crude oil is transported to ConocoPhillips' Gaines Pump Station where it is added to the main crude oil pipeline. From initial abatement activities and ongoing product removal activities, approximately 1,069 barrels of crude oil have been recovered up to February 25, 2004.

On December 30, 2003, approximately 60 barrels of recovered groundwater was removed from the crude oil storage tank by Key Energy Services, Inc. and hauled to Sundance Services' Eunice, New Mexico facility for disposal. Documentation for the recovered groundwater disposal activities is included in Appendix B.

SYSTEM OPERATION AND MAINTENANCE

The remediation system equipment operation and maintenance schedule was performed according to manufacture recommendations and included periodic oil and oil filter changes, air filter replacement, motor bearing lubrication and air/oil separator maintenance on the Sullivan/Palatek 20D air compressor; periodic checking of the motor bearings on the Roton soil vapor extraction (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; monitoring and periodic leak checking on the bio-venting and nutrient injection wellheads; 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, timer and totalizer readings into a table for monitoring of system functions over time.

Maintenance of the nutrient injection system required replacement of the nitrous oxide tanks as needed and monitoring of the nutrient uptake volumes. The SVE system was routinely monitored for vacuum readings at the blower intake manifold, well inlet header and SVE

wellheads; blower exhaust stack flow rate, temperature, and effluent concentrations of volatile organic compounds (VOC) and nitrous oxide; and volume of oil recovered in the condensate separator. Oil recovered by the SVE condensate separator was transferred to the OWS and ultimately accumulated into a 55-gallon drum for disposal. The groundwater extraction, treatment and re-injection system maintenance included periodic checking of the OWS for sediment accumulation; monitoring the air stripper tower for vacuum, iron and bio-fouling, exhaust stack flow rate and effluent VOC concentrations; and replacement of the air stripper tower bag filters as needed.

The volume of oil being recovered by the OWS has increased recently and caused an alert condition shutdown of the system due to a full drum on January 29 and February 16, 2004. Plans to install a higher volume tank for the OWS oil recovery system are currently being developed.

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.
- The bio-venting and nutrient injection systems are operating according to design parameters.
- The groundwater extraction flow rates have decreased over time, which may be due to any or a combination of aquifer dewatering by the extraction system, an overall decrease in the groundwater levels, and well screen clogging. A scope of work is being developed to pull the extraction well pumps, assess the possibility of clogged well screens, and redevelop the wells, if necessary.
- The crude oil recovery system has operated consistently at the Site. From initial abatement activities to February 25, 2004, approximately 1,069 barrels of crude oil have been recovered.
- The groundwater treatment system is operating according to design parameters and the removal of dissolved phase hydrocarbons prior to re-injection has been optimal.
- 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. Plans to collect additional performance monitoring data for the Site, including conducting a respirometry test, are currently being considered.

- The requirement to analyze groundwater samples from the Site annually for WQCC metals will be implemented during the next quarterly groundwater sampling event and will continue as necessary.
- Submittal of this report fulfills the compliance requirements outlined in ConocoPhillips Discharge Permit GW-349.

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

Sincerely,

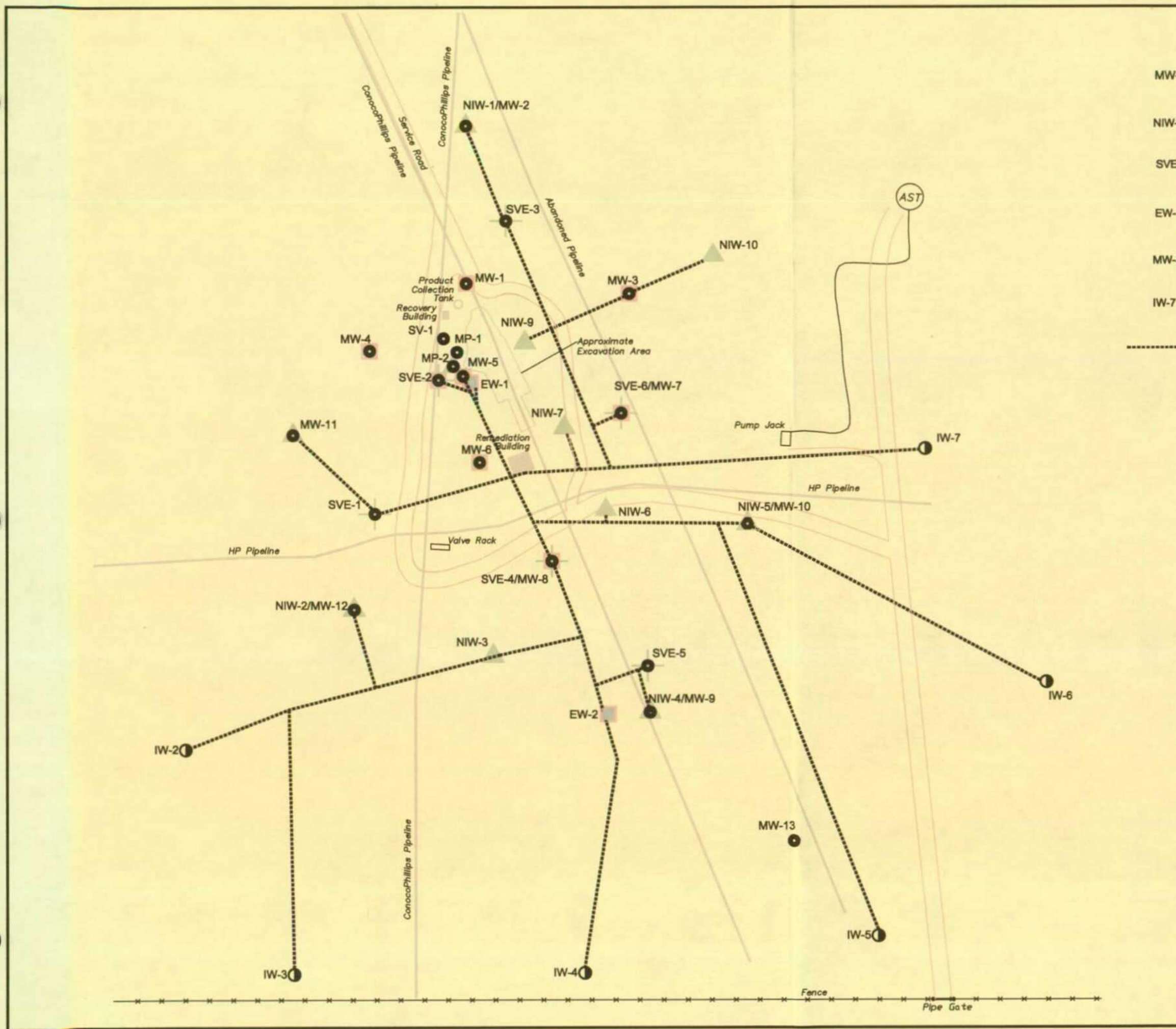
MAXIM TECHNOLOGIES, INC.



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** **Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – November 2003**
- Figure 4b** **Liquid Phase Hydrocarbon (LPH) Thickness Contour Map – January 2004**



LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor

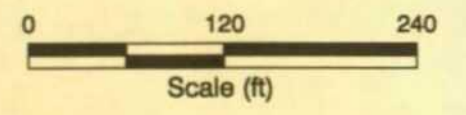
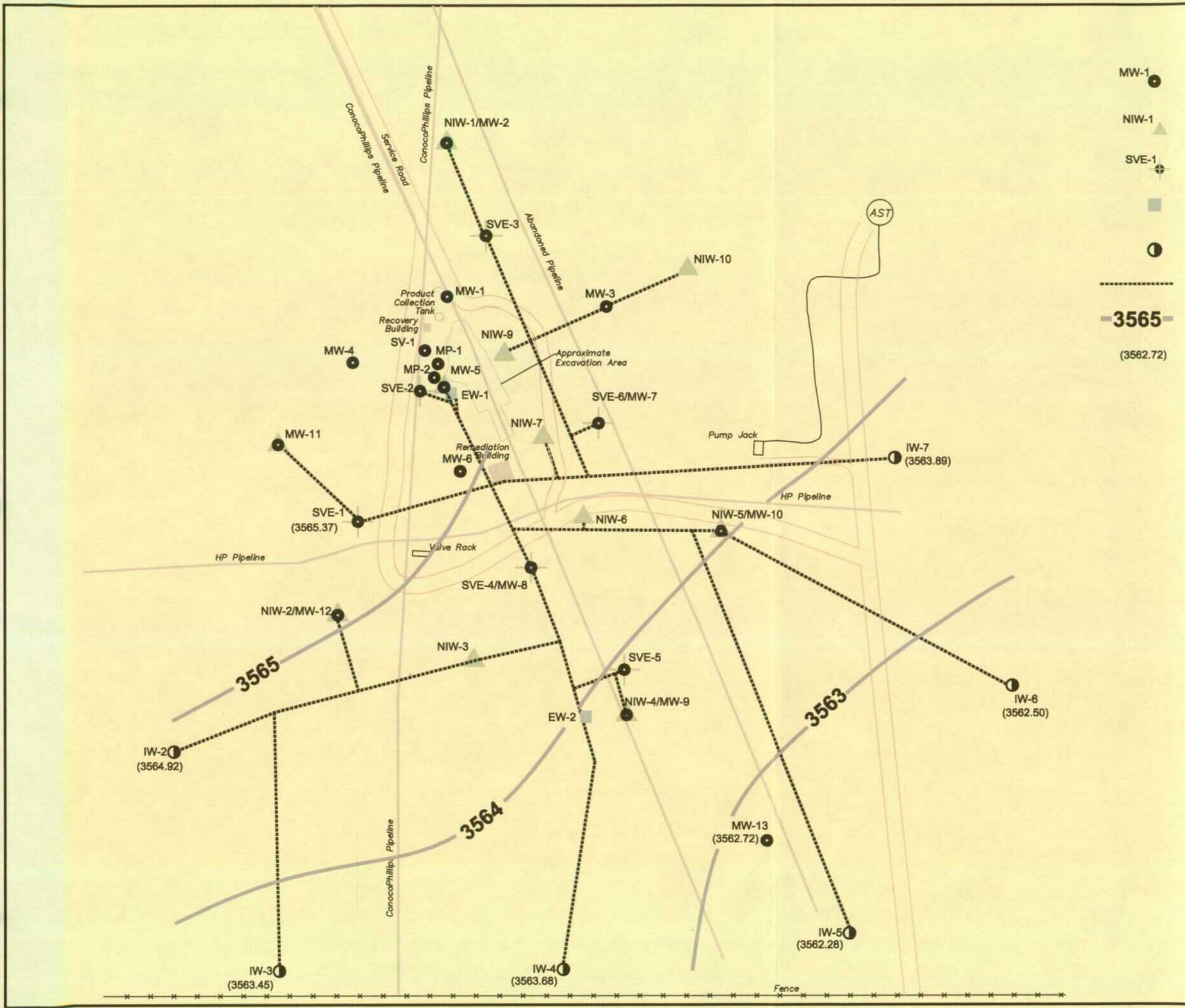


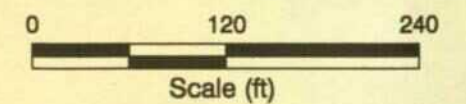
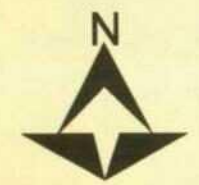
FIGURE 1 : SITE MAP

LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/09/2004 ACAD File : NM1-1.Fig1SiteMap.dwg

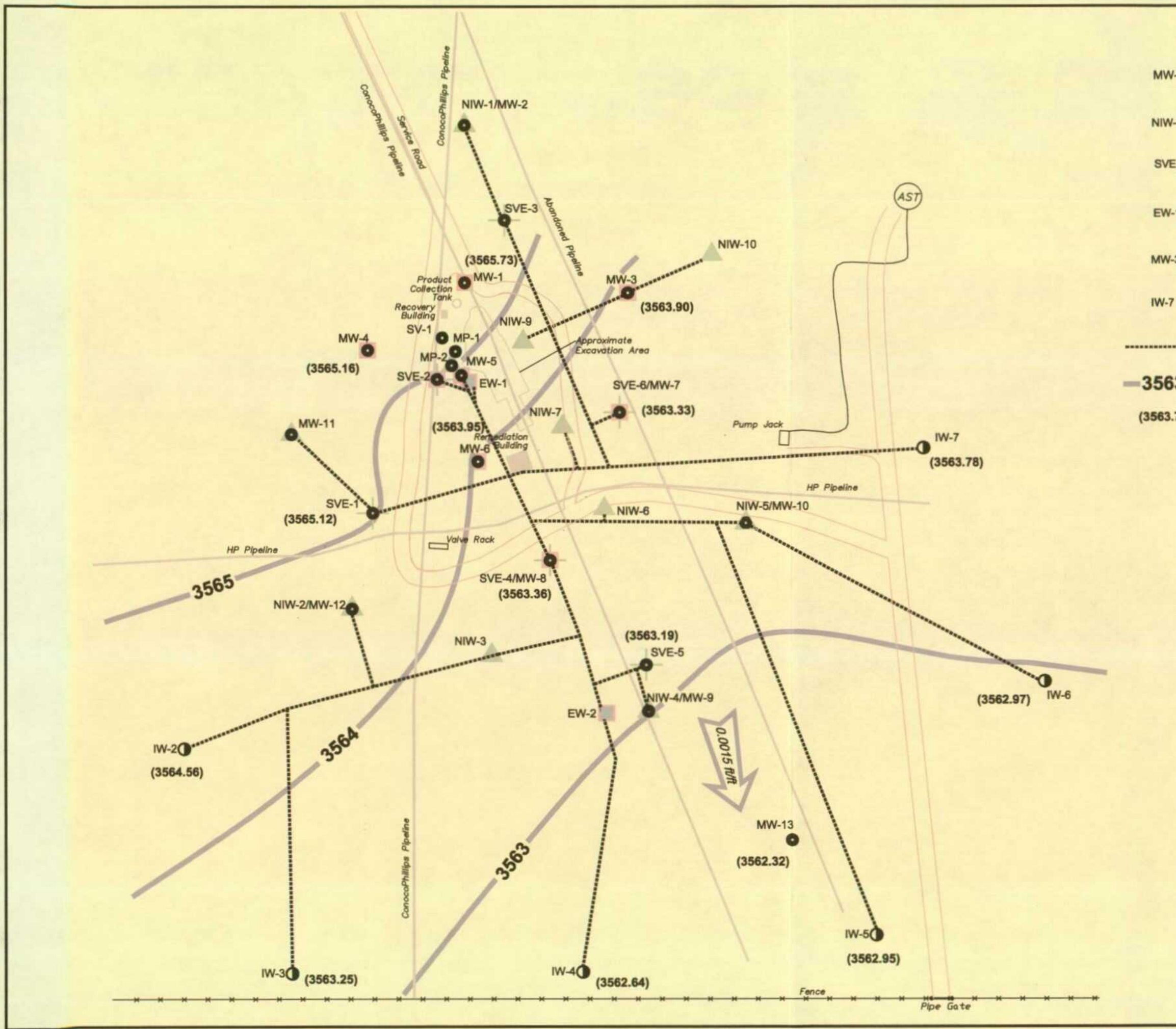


LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ⊕ Soil Vapor Extraction Location & Designation
- Groundwater/Product Extraction Well Location & Designation
- Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 3565- Groundwater Elevation Contour
- (3562.72) Groundwater Elevation (feet above mean sea level)



Project No.:	571-16	Date Map Generated:	09/29/03	Date Data Collected:	07/14/03	Figure No.:	2a	
Author:	NF	Title:					GROUNDWATER CONTOUR MAP	
Checked:	CH	Client:					ConocoPhillips	
Detailed:	EC	ACAD File:					571-16 Hobbs NM1-1.dwg; tab 002 07-14-03	
						Location:		
						Hobbs New Mexico		

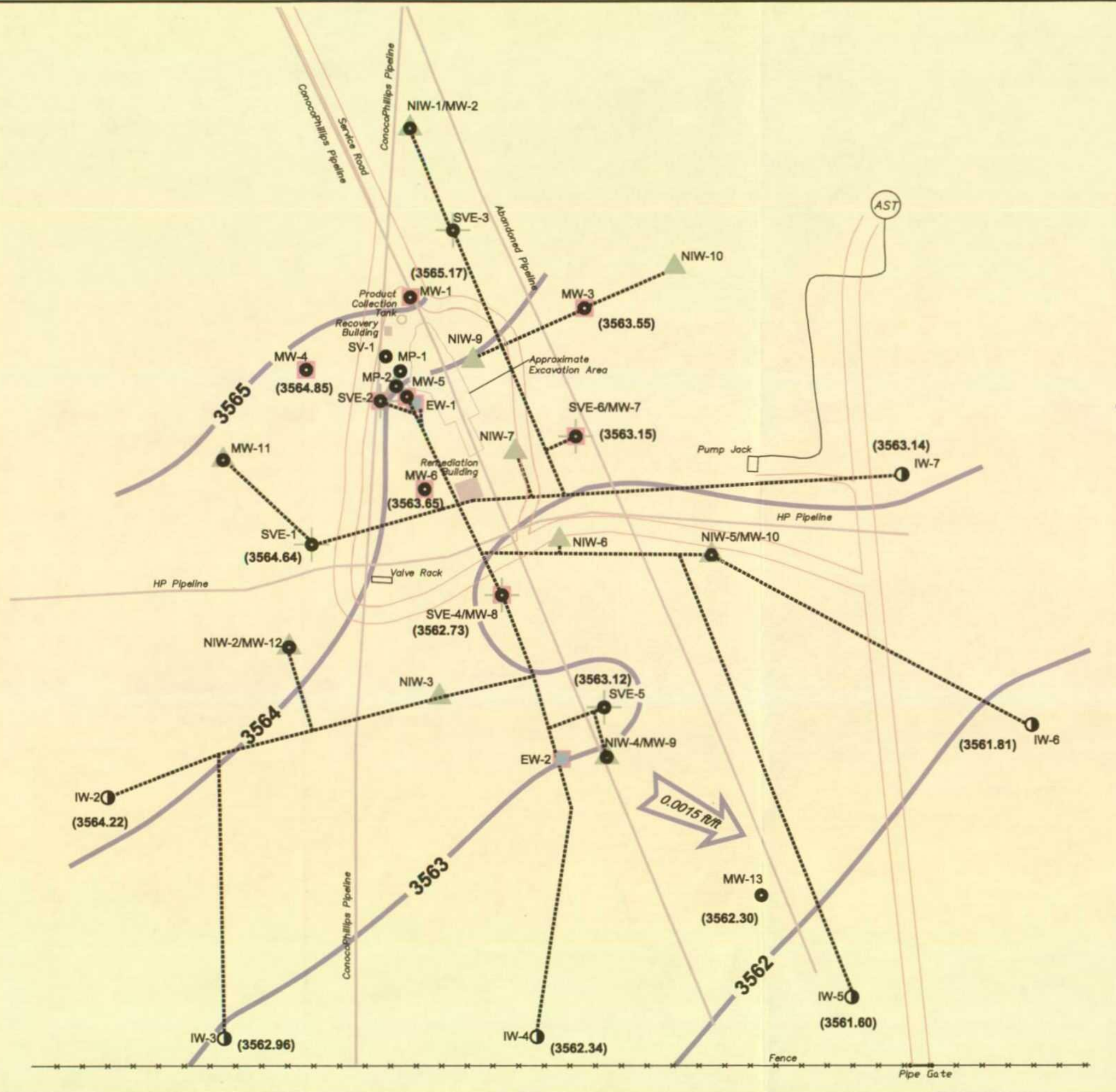


LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 3563** Groundwater Elevation Contour
- (3563.78) Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

FIGURE 2b : GROUNDWATER CONTOUR MAP
OCTOBER/NOVEMBER 2003

LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	DATA COLLECTED : OCT. 15, 2003 NOV. 05, 2003 PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/03/2004 ACAD File : NM1-1.GW Contour.Oct03.dwg



LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- 3563— Groundwater Elevation Contour
- (3563.14) Groundwater Elevation (feet above mean sea level)
- ft/ft = feet per foot

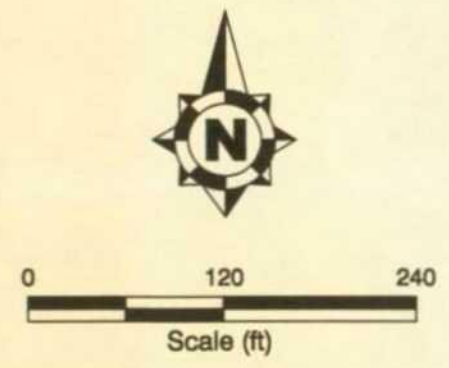
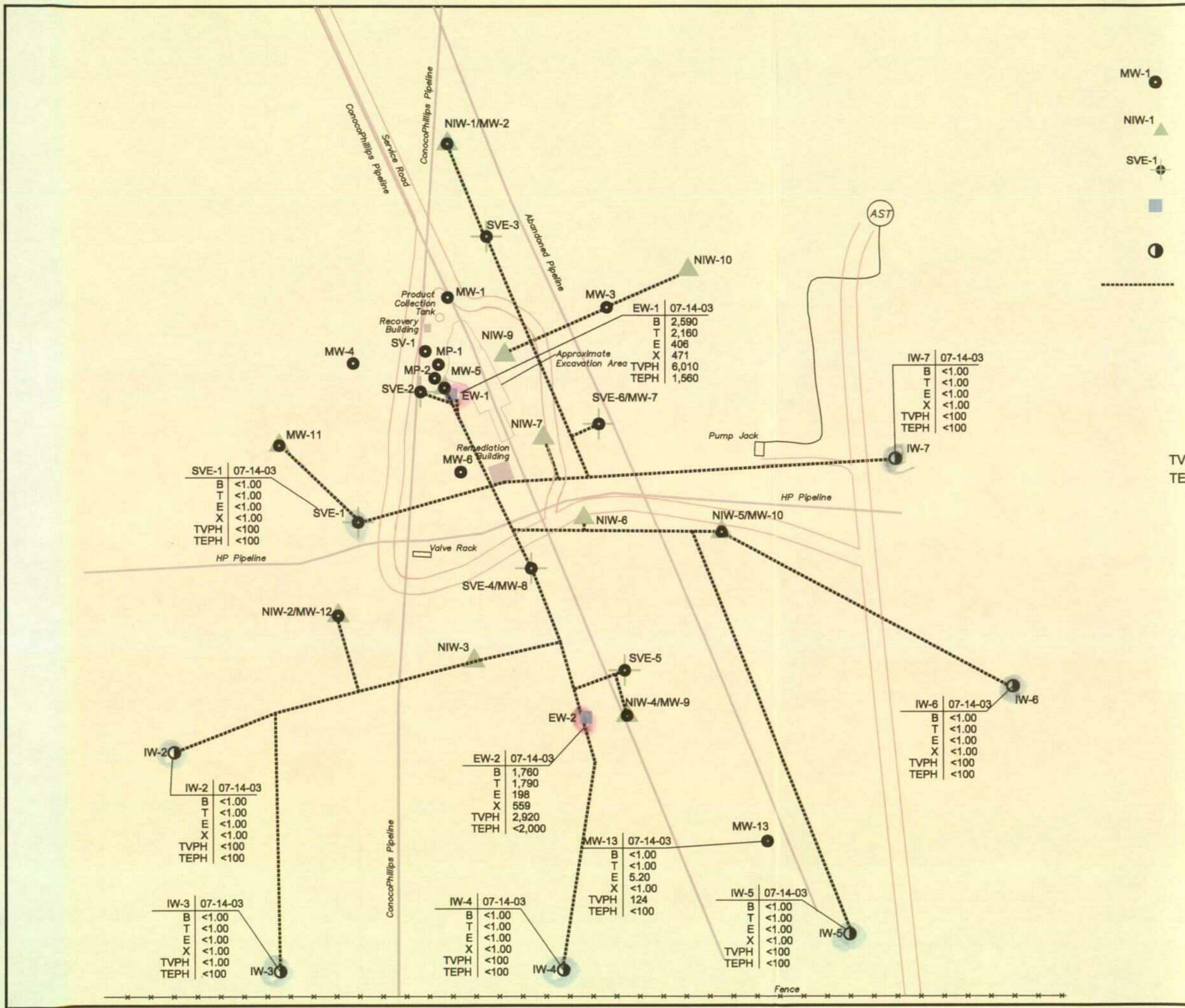


FIGURE 2c : GROUNDWATER CONTOUR MAP
JANUARY 2004

LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/03/2004 ACAD File : NM1-1.GW Contour.Jan04.dwg

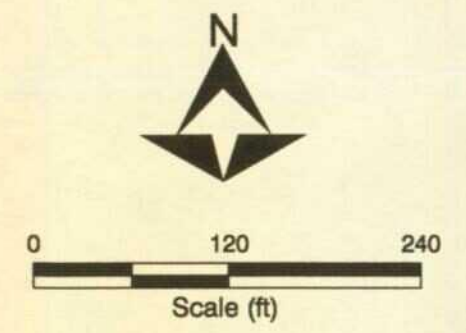


LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ⊕ Soil Vapor Extraction Location & Designation
- Groundwater/Product Extraction Well Location & Designation
- Groundwater Injection Well Location & 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



SVE-1	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

IW-2	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

IW-3	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

EW-2	07-14-03
B	1,760
T	1,790
E	198
X	559
TVPH	2,920
TEPH	<2,000

IW-4	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

MW-13	07-14-03
B	<1.00
T	<1.00
E	5.20
X	<1.00
TVPH	124
TEPH	<100

IW-5	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

EW-1	07-14-03
B	2,590
T	2,160
E	406
X	471
TVPH	6,010
TEPH	1,560

IW-7	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

IW-6	07-14-03
B	<1.00
T	<1.00
E	<1.00
X	<1.00
TVPH	<100
TEPH	<100

Project No.:	571-16	Date Map Generated:	09/29/03	Date Data Collected:	07/14/03	Figure No.:	3a
Author:	NF						
Checked:	CH						
Drawn:	EC						
Client:					Location:		
ConocoPhillips					Hobbs New Mexico		
ACAD File: 571-16 Hobbs NM1-1.dwg; tab 002 07-14-03							

LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & 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

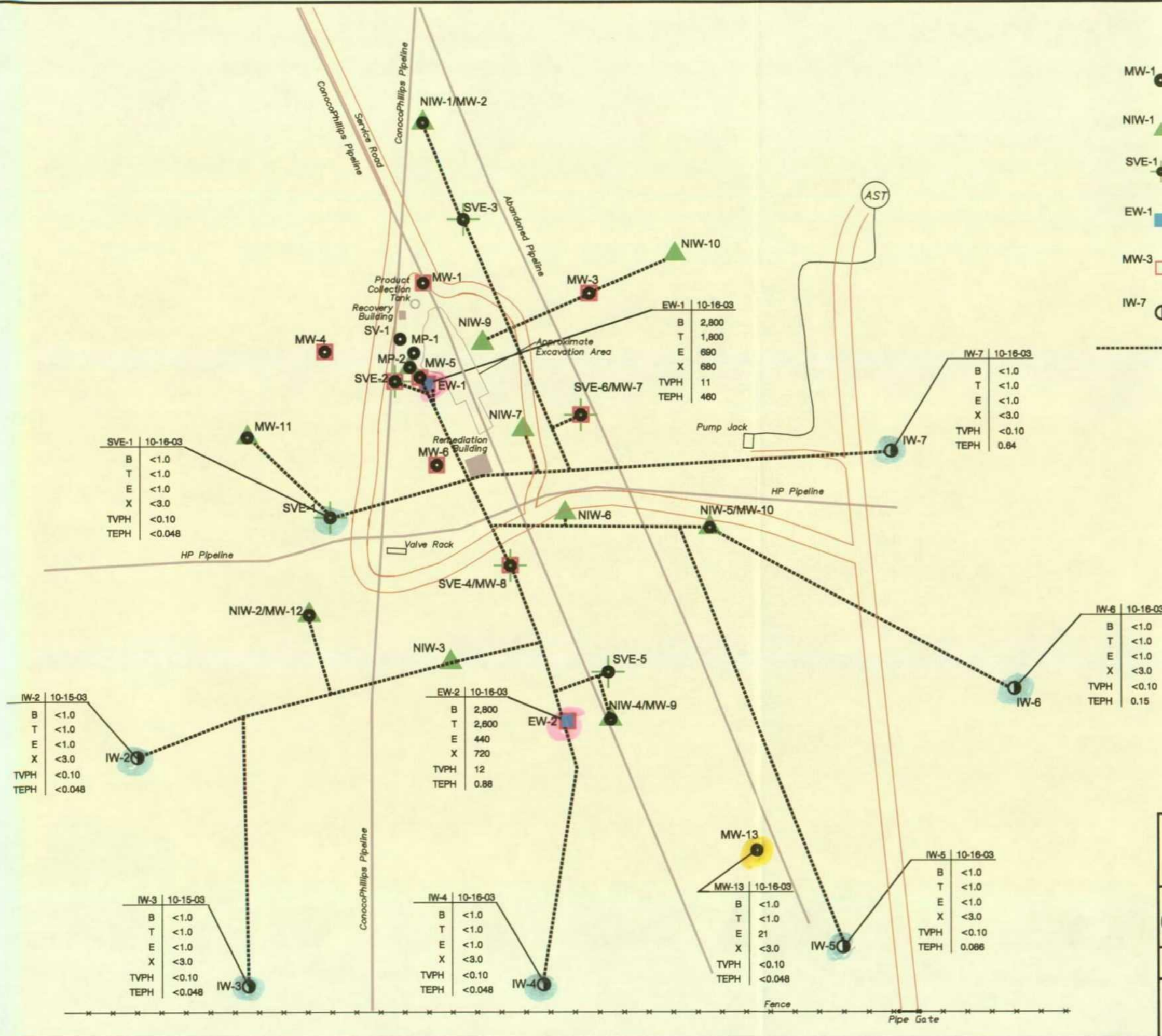
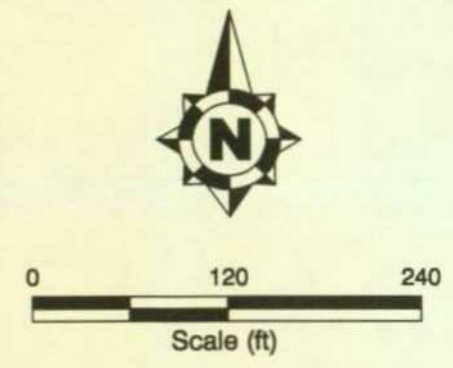
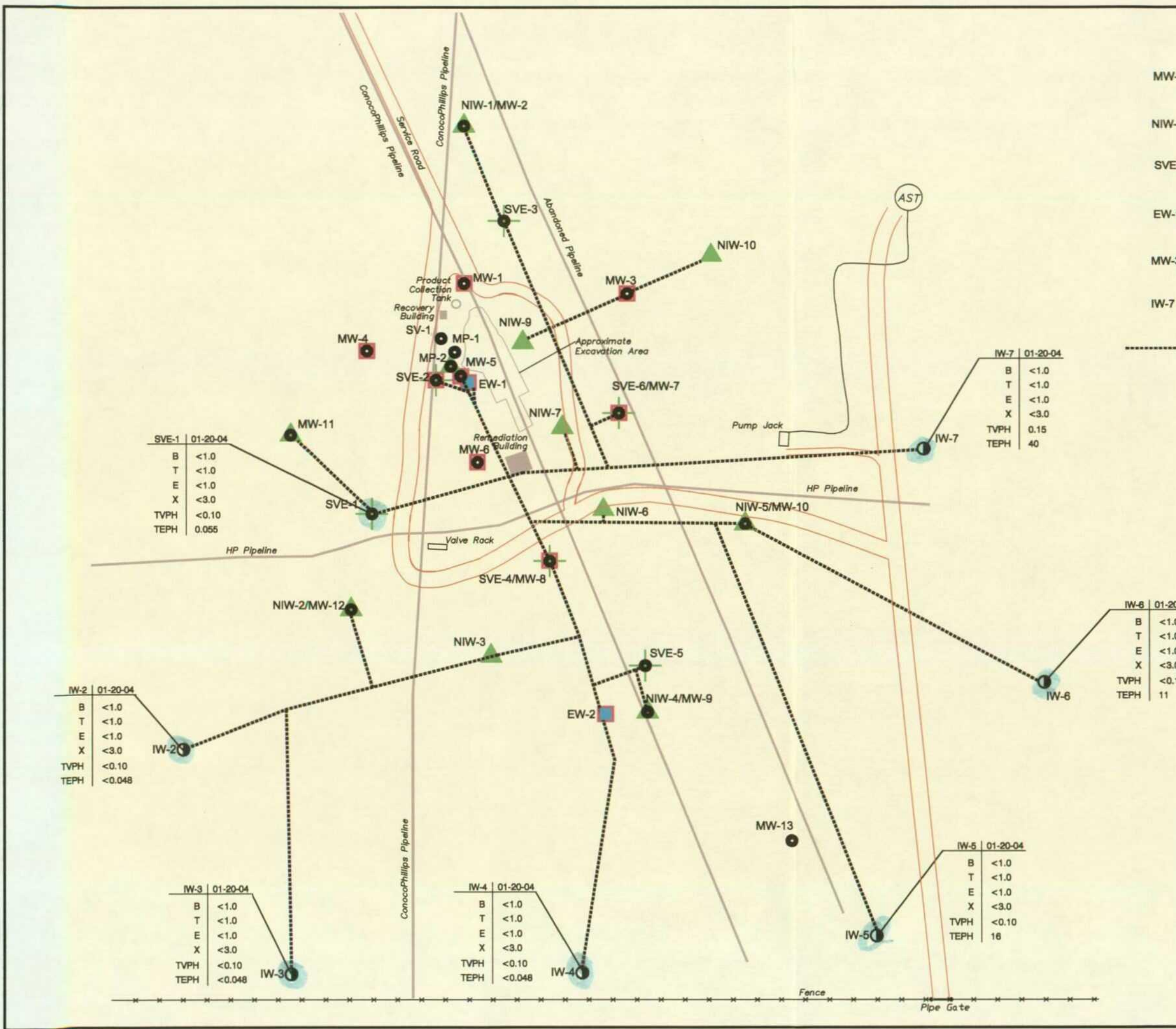


FIGURE 3b : SUMMARY OF GROUNDWATER ANALYTICAL RESULTS OCTOBER 2003

ConocoPhillips	MAXIM TECHNOLOGIES INC.
LINE NM 1-1	DATA COLLECTED : OCT. 15 & 16, 2003
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/08/2004 ACAD File : NM1-1.GW Results.Oct03.dwg



LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor

ANALYTICAL DATA

Well Number	Sample Date
IW-2	B <1.0
	T <1.0
	E <1.0
	X <3.0
IW-3	TVPH <0.10
	TEPH <0.048
IW-4	B <1.0
	T <1.0
	E <1.0
	X <3.0
	TEPH <0.048
IW-5	B <1.0
	T <1.0
	E <1.0
	X <3.0
	TEPH 16
IW-6	B <1.0
	T <1.0
	E <1.0
	X <3.0
	TEPH 11
IW-7	B <1.0
	T <1.0
	E <1.0
	X <3.0
	TEPH 40

(µg/L) { B Benzene, T Toluene, E Ethylbenzene, X Xylenes (Total)
 (mg/L) { TVPH Total Volatile Petroleum Hydrocarbons (TPH-GRO), TEPH Total Extractable Petroleum Hydrocarbons (TPH-DRO)

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

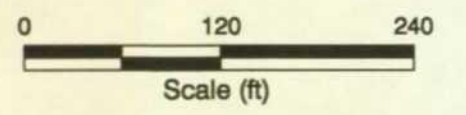
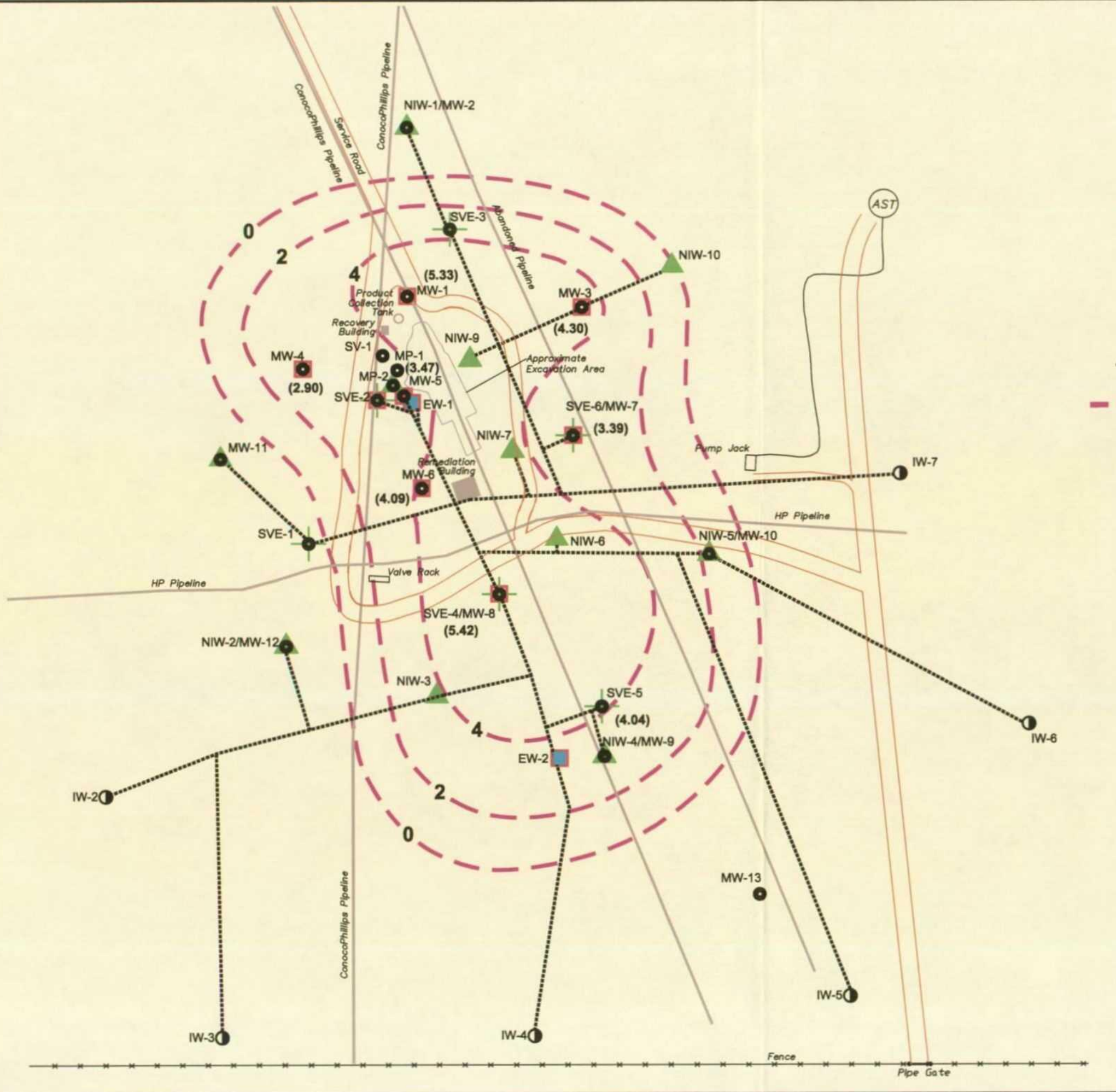


FIGURE 3c: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS JANUARY 2004

ConocoPhillips	MAXIM TECHNOLOGIES INC.
LINE NM 1-1	DATA COLLECTED : JAN. 20, 2004
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/08/2004 ACAD File : NM1-1.GW Results.Jan04.dwg



LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- - - - - 4 - - - - - LPH Thickness Contour
- (5.42) LPH Thickness (feet)

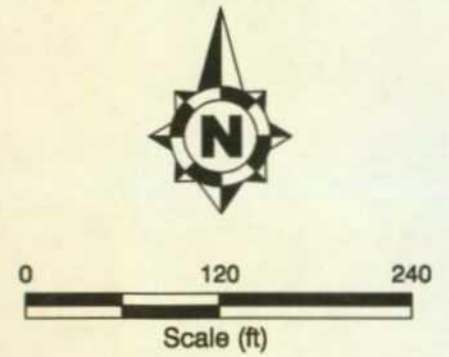


FIGURE 4a : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP NOVEMBER 2003	
LINE NM 1-1	DATA COLLECTED : NOV. 05, 2003
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/04/2004 ACAD File : NM1-1.LPH Contour.Oct03.dwg

LEGEND

- MW-1 ● Existing Monitor Well Location & Designation
- NIW-1 ▲ Nutrient Injection Well Location & Designation
- SVE-1 ● Soil Vapor Extraction Location & Designation
- EW-1 ■ Groundwater Extraction Well Location & Designation
- MW-3 □ Product Recovery Well Location & Designation
- IW-7 ● Groundwater Injection Well Location & Designation
- Alignment of Conveyance Piping Corridor
- - - - 4 - - - - LPH Thickness Contour
- (5.03) LPH Thickness (feet)

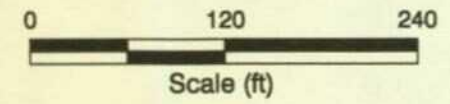
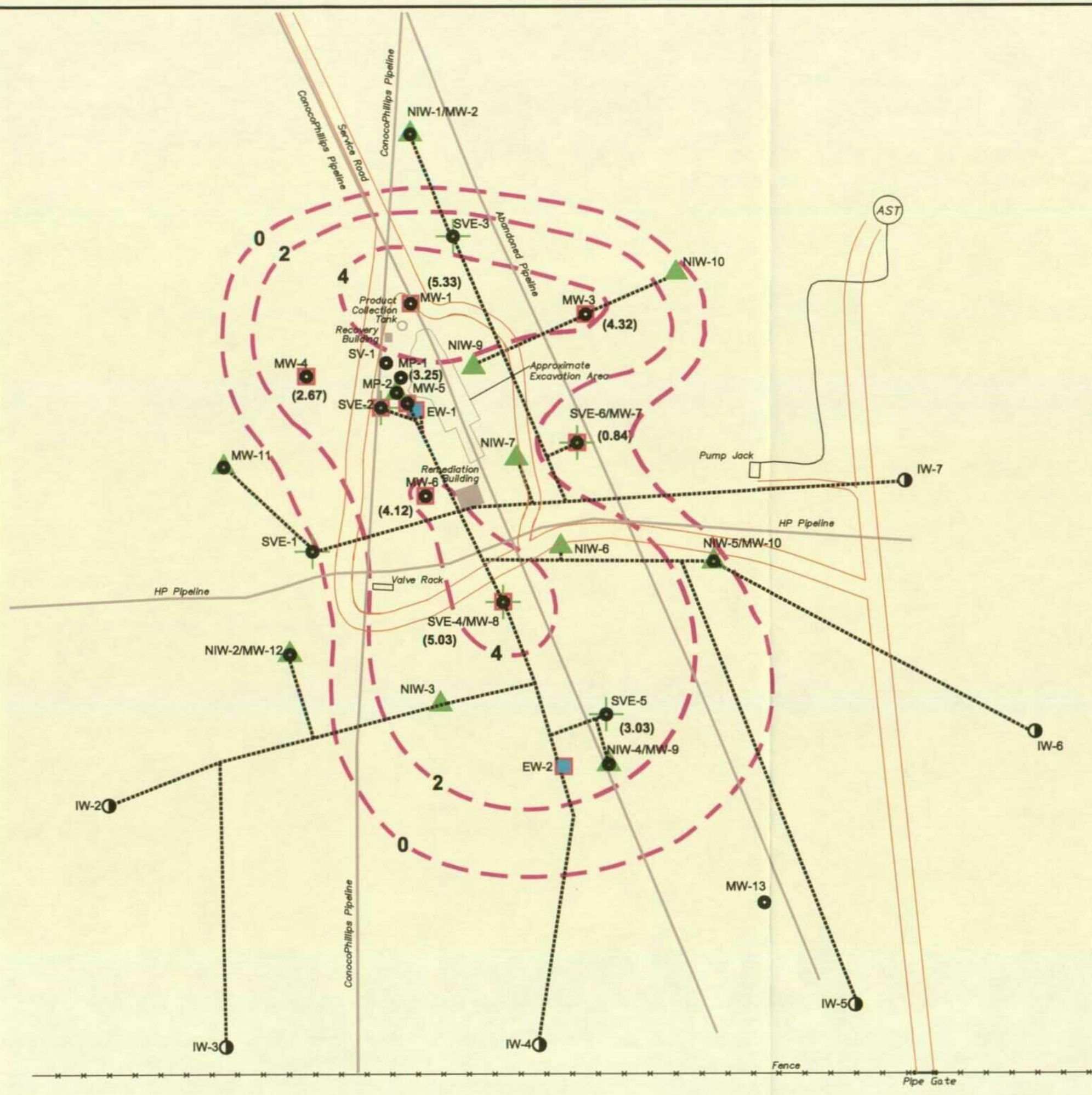


FIGURE 4b : LIQUID PHASE HYDROCARBON (LPH) THICKNESS CONTOUR MAP JANUARY 2004

ConocoPhillips	MAXIM TECHNOLOGIES INC.
LINE NM 1-1	DATA COLLECTED : JAN. 19, 2004
LOCATION : HOBBS, LEA COUNTY NEW MEXICO Sec 9 T19S R38E	PROJECT NO : 4640004 MODIFIED BY : GWP DATE MODIFIED : 03/04/2004 ACAD File : NM1-1.LPH Contour.Jan04.dwg

TABLES

Table 1	Water Level Measurements
Table 2a	Summary of Groundwater Analytical Data - Organics
Table 2b	Groundwater Analytical Data - Organics
Table 2c	Groundwater Analytical Data - Inorganics
Table 3	Summary of Monthly Groundwater Recovery and Effluent Discharge Volumes
Table 4a	Groundwater Effluent Discharge Analytical Data – Organics
Table 4b	Groundwater Effluent Discharge Analytical Data – Inorganics

Table 1
Water Level Measurements
ConocoPhillips
Line NM1-1
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	02/27/01	3603.30	36.20	30.13	6.07	4.86	31.34	3571.96
	06/25/01	3603.30	35.23	34.92	0.31	0.25	34.98	3568.32
	09/25/01	3603.30	40.28	34.64	5.64	4.51	35.77	3567.53
	12/11/01	3603.30	40.72	34.96	5.76	4.61	36.11	3567.19
	11/05/02	3603.30	41.32	35.76	5.56	4.45	36.87	3566.43
	04/21/03	3603.30	41.52	36.33	5.19	4.15	37.37	3565.93
	06/23/03	3603.30	41.89	36.29	5.60	4.48	37.41	3565.89
	11/05/03	3603.30	41.83	36.50	5.33	4.26	37.57	3565.73
01/19/04	3603.30	42.39	37.06	5.33	4.26	38.13	3565.17	
MW-2 (NIW-1)	02/27/01	3601.57	32.16		0.00	0.00	32.16	3569.41
	06/25/01	3601.57	32.60		0.00	0.00	32.60	3568.97
	09/25/01	3601.57	33.12		0.00	0.00	33.12	3568.45
	12/11/01	3601.57	33.51		0.00	0.00	33.51	3568.06
	05/20/02	3601.57	33.75		0.00	0.00	33.75	3567.82
MW-3	02/27/01	3602.77	38.93	33.88	5.05	4.04	34.89	3567.88
	06/25/01	3602.77	39.44	35.23	4.21	3.37	36.07	3566.70
	09/25/01	3602.77	40.41	35.79	4.62	3.70	36.71	3566.06
	12/11/01	3602.77	40.83	36.12	4.71	3.77	37.06	3565.71
	11/05/02	3602.77	41.26	36.82	4.44	3.55	37.71	3565.06
	04/21/03	3602.77	41.52	37.14	4.38	3.50	38.02	3564.75
	06/23/03	3602.77	37.93	36.77	1.16	0.93	37.00	3565.77
	11/05/03	3602.77	42.31	38.01	4.30	3.44	38.87	3563.90
01/19/04	3602.77	42.68	38.36	4.32	3.46	39.22	3563.55	
MW-4	02/27/01	3601.70	36.13	32.41	3.72	2.98	33.15	3568.55
	06/25/01	3601.70	36.90	33.17	3.73	2.98	33.92	3567.78
	09/25/01	3601.70	37.38	33.63	3.75	3.00	34.38	3567.32
	12/11/01	3601.70	37.59	34.03	3.56	2.85	34.74	3566.96
	11/05/02	3601.70	38.51	34.82	3.69	2.95	35.56	3566.14
	04/21/03	3601.70	38.78	35.22	3.56	2.85	35.93	3565.77
	06/23/03	3601.70	38.73	35.34	3.39	2.71	36.02	3565.68
	11/05/03	3601.70	38.86	35.96	2.90	2.32	36.54	3565.16
01/19/04	3601.70	38.99	36.32	2.67	2.14	36.85	3564.85	
MW-5	02/27/01	3601.54	37.92	32.36	5.56	4.45	33.47	3568.07
	06/25/01	3601.54	38.21	32.95	5.26	4.21	34.00	3567.54
	09/25/01	3601.54	39.66	34.44	5.22	4.18	35.48	3566.06
	12/11/01	3601.54	38.94	33.84	5.10	4.08	34.86	3566.68
	11/05/02	3601.54	39.18	34.71	4.47	3.58	35.60	3565.94
	04/21/03	3601.54	39.98	35.34	4.64	3.71	36.27	3565.27
	06/23/03	3601.54	39.55	35.43	4.12	3.30	36.25	3565.29
	11/05/03	3601.54	39.35	35.88	3.47	2.78	36.57	3564.97
01/19/04	3601.54	40.36	37.11	3.25	2.60	37.76	3563.78	
MW-6	02/27/01	3599.83	35.80	31.31	4.49	3.59	32.21	3567.62
	06/25/01	3599.83	33.12	33.02	0.10	0.08	33.04	3566.79
	09/25/01	3599.83	37.11	32.83	4.28	3.42	33.69	3566.14
	12/11/01	3599.83	37.34	33.18	4.16	3.33	34.01	3565.82
	11/05/02	3599.83	38.22	34.00	4.22	3.38	34.84	3564.99
	04/21/03	3599.83	38.23	34.30	3.93	3.14	35.09	3564.74
	11/05/03	3599.83	39.15	35.06	4.09	3.27	35.88	3563.95
	01/19/04	3599.83	39.48	35.36	4.12	3.30	36.18	3563.65
MW-7 (SVE-6)	02/27/01	3602.11	39.35	33.60	5.75	4.60	34.75	3567.36
	06/25/01	3602.11	40.34	34.69	5.65	4.52	35.82	3566.29
	09/25/01	3602.11	40.83	35.14	5.69	4.55	36.28	3565.83
	12/11/01	3602.11	41.23	35.49	5.74	4.59	36.64	3565.47
	11/05/02	3602.11	42.25	36.67	5.58	4.46	37.79	3564.32

Table 1
Water Level Measurements
 ConocoPhillips
 Line NM1-1
 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-7 (SVE-6) cont.	04/21/03	3602.11	42.41	36.98	5.43	4.34	38.07	3564.04
	06/23/03	3602.11	42.02	37.21	4.81	3.85	38.17	3563.94
	11/05/03	3602.11	41.49	38.10	3.39	2.71	38.78	3563.33
	01/19/04	3602.11	39.63	38.79	0.84	0.67	38.96	3563.15
MW-8 (SVE-4)	02/27/01	3598.87	34.36	31.17	3.19	2.55	31.81	3567.06
	06/25/01	3598.87	35.59	31.93	3.66	2.93	32.66	3566.21
	09/25/01	3598.87	36.18	32.33	3.85	3.08	33.10	3565.77
	12/11/01	3598.87	36.71	32.63	4.08	3.26	33.45	3565.42
	11/05/02	3598.87	38.34	33.86	4.48	3.58	34.76	3564.11
	04/21/03	3598.87	38.64	34.22	4.42	3.54	35.10	3563.77
	06/23/03	3598.87	37.21	34.31	2.90	2.32	34.89	3563.98
	11/05/03	3598.87	39.85	34.43	5.42	4.34	35.51	3563.36
01/19/04	3598.87	40.16	35.13	5.03	4.02	36.14	3562.73	
MW-9 (NIW-4)	02/27/01	3601.05	34.80		0.00	0.00	34.80	3566.25
	06/25/01	3601.05	35.78	35.11	0.67	0.54	35.24	3565.81
	09/25/01	3601.05	37.54	35.19	2.35	1.88	35.66	3565.39
	06/23/03	3601.05	38.80	34.55	4.25	3.40	35.40	3565.65
MW-10 (NIW-5)	02/27/01	3602.96	36.27		0.00	0.00	36.27	3566.69
	06/25/01	3602.96	36.69		0.00	0.00	36.69	3566.27
	09/25/01	3602.96	37.13		0.00	0.00	37.13	3565.83
	12/11/01	3602.96	37.49		0.00	0.00	37.49	3565.47
	05/20/02	3602.96	37.87		0.00	0.00	37.87	3565.09
MW-11	02/27/01	3600.67	32.13		0.00	0.00	32.13	3568.54
	06/25/01	3600.67	32.56		0.00	0.00	32.56	3568.11
	09/25/01	3600.67	32.99		0.00	0.00	32.99	3567.68
	12/11/01	3600.67	33.33		0.00	0.00	33.33	3567.34
	05/20/02	3600.67	33.83		0.00	0.00	33.83	3566.84
MW-12 (NIW-2)	02/27/01	3599.35	31.82		0.00	0.00	31.82	3567.53
	06/25/01	3599.35	32.23		0.00	0.00	32.23	3567.12
	09/25/01	3599.35	32.63		0.00	0.00	32.63	3566.72
	12/11/01	3599.35	32.94		0.00	0.00	32.94	3566.41
	05/20/02	3599.35	33.46		0.00	0.00	33.46	3565.89
MW-13	02/27/01	3601.67	36.44		0.00	0.00	36.44	3565.23
	06/25/01	3601.67	36.83		0.00	0.00	36.83	3564.84
	09/25/01	3601.67	37.23		0.00	0.00	37.23	3564.44
	12/11/01	3601.67	37.57		0.00	0.00	37.57	3564.10
	05/20/02	3601.67	38.04		0.00	0.00	38.04	3563.63
	08/28/02	3601.67	38.30		0.00	0.00	38.30	3563.37
	08/29/02	3601.67	38.30		0.00	0.00	38.30	3563.37
	11/07/02	3601.67	38.49		0.00	0.00	38.49	3563.18
	11/22/02	3601.67	38.45		0.00	0.00	38.45	3563.22
	11/29/02	3601.67	38.44		0.00	0.00	38.44	3563.23
	12/17/02	3601.67	38.37		0.00	0.00	38.37	3563.30
	12/18/02	3601.67	38.40		0.00	0.00	38.40	3563.27
	01/14/03	3601.67	38.39		0.00	0.00	38.39	3563.28
	02/24/03	3601.67	38.54		0.00	0.00	38.54	3563.13
	02/25/03	3601.67	38.52		0.00	0.00	38.52	3563.15
	03/04/03	3601.67	38.55		0.00	0.00	38.55	3563.12
	03/14/03	3601.67	38.57		0.00	0.00	38.57	3563.10
	04/07/03	3601.67	38.63		0.00	0.00	38.63	3563.04
	04/11/03	3601.67	38.63		0.00	0.00	38.63	3563.04
	04/23/03	3601.67	38.65		0.00	0.00	38.65	3563.02
07/14/03	3601.67	38.95		0.00	0.00	38.95	3562.72	
10/15/03	3601.67	39.35		0.00	0.00	39.35	3562.32	
01/19/04	3601.67	39.37		0.00	0.00	39.37	3562.30	

Table 1
Water Level Measurements
 ConocoPhillips
 Line NM1-1
 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
SV-1	02/27/01	3602.16	NM					
	06/25/01	3602.16	NM					
	09/25/01	3602.16	NM					
	12/11/01	3602.16	NM					
SVE-2 (SV-2)	02/27/01	3601.17	37.03	32.06	4.97	3.98	33.05	3568.12
	06/25/01	3601.17	37.28	32.67	4.61	3.69	33.59	3567.58
	09/25/01	3601.17	37.75	33.46	4.29	3.43	34.32	3566.85
	12/11/01	3601.17	37.69	33.74	3.95	3.16	34.53	3566.64
	11/05/02	3601.17	39.06	35.58	3.48	2.78	36.28	3564.89
	04/21/03	3601.17	39.33	35.65	3.68	2.94	36.39	3564.78
	11/05/03	3601.17	NM	35.02	interface probe unable to penetrate very viscous L.P.H.			
MP-1	02/27/01	3601.87	NM					
	06/25/01	3601.87	NM					
	09/25/01	3601.87	NM					
	12/11/01	3601.87	NM					
MP-2	02/27/01	3601.87	NM					
	06/25/01	3601.87	37.66	33.15	4.51	3.61	34.05	3567.82
	09/25/01	3601.87	NM					
	12/11/01	3601.87	NM					
IW-2	06/05/02	3597.87	32.94		0.00	0.00	32.94	3564.93
	06/07/02	3597.87	32.99		0.00	0.00	32.99	3564.88
	06/08/02	3597.87	32.96		0.00	0.00	32.96	3564.91
	08/28/02	3597.87	32.27		0.00	0.00	32.27	3565.60
	08/29/02	3597.87	32.23		0.00	0.00	32.23	3565.64
	10/25/02	3597.87	32.46		0.00	0.00	32.46	3565.41
	11/06/02	3597.87	32.45		0.00	0.00	32.45	3565.42
	01/14/03	3597.87	32.41		0.00	0.00	32.41	3565.46
	02/26/03	3597.87	32.48		0.00	0.00	32.48	3565.39
	04/23/03	3597.87	32.49		0.00	0.00	32.49	3565.38
	06/23/03	3597.87	32.88		0.00	0.00	32.88	3564.99
	07/14/03	3597.87	32.95		0.00	0.00	32.95	3564.92
	10/15/03	3597.87	33.31		0.00	0.00	33.31	3564.56
01/19/04	3597.87	33.65		0.00	0.00	33.65	3564.22	
IW-3	06/05/02	3597.30	32.85		0.00	0.00	32.85	3564.45
	06/07/02	3597.30	32.89		0.00	0.00	32.89	3564.41
	06/08/02	3597.30	32.88		0.00	0.00	32.88	3564.42
	08/28/02	3597.30	33.02		0.00	0.00	33.02	3564.28
	08/29/02	3597.30	33.01		0.00	0.00	33.01	3564.29
	10/25/02	3597.30	33.20		0.00	0.00	33.20	3564.10
	11/06/02	3597.30	33.23		0.00	0.00	33.23	3564.07
	01/14/03	3597.30	33.20		0.00	0.00	33.20	3564.10
	02/26/03	3597.30	33.28		0.00	0.00	33.28	3564.02
	04/23/03	3597.30	33.28		0.00	0.00	33.28	3564.02
	06/23/03	3597.30	33.78		0.00	0.00	33.78	3563.52
	07/14/03	3597.30	33.85		0.00	0.00	33.85	3563.45
	10/15/03	3597.30	34.05		0.00	0.00	34.05	3563.25
01/19/04	3597.30	34.34		0.00	0.00	34.34	3562.96	
IW-4	06/05/02	3596.13	32.12		0.00	0.00	32.12	3564.01
	06/07/02	3596.13	32.14		0.00	0.00	32.14	3563.99
	06/08/02	3596.13	32.17		0.00	0.00	32.17	3563.96
	08/28/02	3596.13	32.45		0.00	0.00	32.45	3563.68
	08/29/02	3596.13	32.41		0.00	0.00	32.41	3563.72
	10/25/02	3596.13	32.62		0.00	0.00	32.62	3563.51
	11/06/02	3596.13	32.68		0.00	0.00	32.68	3563.45

Table 1
Water Level Measurements
 ConocoPhillips
 Line NM1-1
 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
IW-4 cont.	01/14/03	3596.13	32.63		0.00	0.00	32.63	3563.50
	02/26/03	3596.13	32.71		0.00	0.00	32.71	3563.42
	04/23/03	3596.13	32.74		0.00	0.00	32.74	3563.39
	06/23/03	3596.13	33.03		0.00	0.00	33.03	3563.10
	07/14/03	3596.13	32.45		0.00	0.00	32.45	3563.68
	10/15/03	3596.13	33.49		0.00	0.00	33.49	3562.64
	01/19/04	3596.13	33.79		0.00	0.00	33.79	3562.34
IW-5	06/05/02	3599.89	36.85		0.00	0.00	36.85	3563.04
	06/07/02	3599.89	36.83		0.00	0.00	36.83	3563.06
	06/08/02	3599.89	36.83		0.00	0.00	36.83	3563.06
	08/28/02	3599.89	37.01		0.00	0.00	37.01	3562.88
	08/29/02	3599.89	37.06		0.00	0.00	37.06	3562.83
	10/25/02	3599.89	37.22		0.00	0.00	37.22	3562.67
	11/06/02	3599.89	37.19		0.00	0.00	37.19	3562.70
	01/14/03	3599.89	37.15		0.00	0.00	37.15	3562.74
	02/26/03	3599.89	37.25		0.00	0.00	37.25	3562.64
	04/23/03	3599.89	37.26		0.00	0.00	37.26	3562.63
	06/23/03	3599.89	37.60		0.00	0.00	37.60	3562.29
	07/14/03	3599.89	37.61		0.00	0.00	37.61	3562.28
	10/15/03	3599.89	36.94		0.00	0.00	36.94	3562.95
	01/19/04	3599.89	38.29		0.00	0.00	38.29	3561.60
IW-6	06/05/02	3599.71	36.45		0.00	0.00	36.45	3563.26
	06/07/02	3599.71	36.48		0.00	0.00	36.48	3563.23
	06/08/02	3599.71	36.48		0.00	0.00	36.48	3563.23
	08/28/02	3599.71	36.54		0.00	0.00	36.54	3563.17
	08/29/02	3599.71	36.52		0.00	0.00	36.52	3563.19
	10/25/02	3599.71	36.75		0.00	0.00	36.75	3562.96
	11/06/02	3599.71	36.68		0.00	0.00	36.68	3563.03
	01/14/03	3599.71	36.56		0.00	0.00	36.56	3563.15
	02/26/03	3599.71	36.50		0.00	0.00	36.50	3563.21
	04/23/03	3599.71	36.52		0.00	0.00	36.52	3563.19
	06/23/03	3599.71	37.15		0.00	0.00	37.15	3562.56
	07/14/03	3599.71	37.21		0.00	0.00	37.21	3562.50
	10/15/03	3599.71	36.74		0.00	0.00	36.74	3562.97
	01/19/04	3599.71	37.90		0.00	0.00	37.90	3561.81
IW-7	06/05/02	3600.64	35.70		0.00	0.00	35.70	3564.94
	06/07/02	3600.64	35.77		0.00	0.00	35.77	3564.87
	06/08/02	3600.64	35.81		0.00	0.00	35.81	3564.83
	08/28/02	3600.64	36.03		0.00	0.00	36.03	3564.61
	08/29/02	3600.64	36.07		0.00	0.00	36.07	3564.57
	10/25/02	3600.64	36.25		0.00	0.00	36.25	3564.39
	11/06/02	3600.64	35.94		0.00	0.00	35.94	3564.70
	01/14/03	3600.64	35.95		0.00	0.00	35.95	3564.69
	02/26/03	3600.64	35.42		0.00	0.00	35.42	3565.22
	04/23/03	3600.64	35.90		0.00	0.00	35.90	3564.74
	06/23/03	3600.64	36.66		0.00	0.00	36.66	3563.98
	07/14/03	3600.64	36.75		0.00	0.00	36.75	3563.89
	10/15/03	3600.64	36.86		0.00	0.00	36.86	3563.78
	01/19/04	3600.64	37.50		0.00	0.00	37.50	3563.14
SVE-1	08/28/02	3598.68	32.63		0.00	0.00	32.63	3566.05
	08/29/02	3598.68	32.60		0.00	0.00	32.60	3566.08
	10/25/02	3598.68	32.60		0.00	0.00	32.60	3566.08
	11/06/02	3598.68	32.80		0.00	0.00	32.80	3565.88
	11/22/02	3598.68	32.75		0.00	0.00	32.75	3565.93
	11/29/02	3598.68	32.73		0.00	0.00	32.73	3565.95
	12/18/02	3598.68	32.82		0.00	0.00	32.82	3565.86
	01/14/03	3598.68	32.61		0.00	0.00	32.61	3566.07
	02/24/03	3598.68	32.78		0.00	0.00	32.78	3565.90

Table 1
Water Level Measurements
ConocoPhillips
Line NM1-1
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
SVE-1 cont.	02/25/03	3598.68	32.79		0.00	0.00	32.79	3565.89
	02/26/03	3598.68	32.80		0.00	0.00	32.80	3565.88
	02/27/03	3598.68	32.80		0.00	0.00	32.80	3565.88
	02/28/03	3598.68	32.80		0.00	0.00	32.80	3565.88
	03/04/03	3598.68	32.78		0.00	0.00	32.78	3565.90
	03/14/03	3598.68	32.79		0.00	0.00	32.79	3565.89
	04/07/03	3598.68	32.90		0.00	0.00	32.90	3565.78
	04/11/03	3598.68	32.89		0.00	0.00	32.89	3565.79
	04/23/03	3598.68	32.91		0.00	0.00	32.91	3565.77
	06/23/03	3598.68	33.21		0.00	0.00	33.21	3565.47
	07/14/03	3598.68	33.31		0.00	0.00	33.31	3565.37
10/15/03	3598.68	33.56		0.00	0.00	33.56	3565.12	
01/19/04	3598.68	34.04		0.00	0.00	34.04	3564.64	
SVE-5	10/25/02	3600.54	38.82	35.92	2.90	2.32	36.50	3564.04
	11/07/02	3600.54	40.80	35.57	5.23	4.18	36.62	3563.92
	11/22/02	3600.54	dry	dry				
	12/18/02	when pumping from EW-2, SVE-5 may have no detection of water/free product during pumping intervals						
	12/18/02	conducted enhanced free product recovery via vacuum truck						
	02/26/03	3600.54	36.30	30.54	5.76	4.61	31.69	3568.85
	03/13/03	conducted enhanced free product recovery via vacuum truck						
	11/05/03	3600.54	40.58	36.54	4.04	3.23	37.35	3563.19
	01/19/04	3600.54	39.84	36.81	3.03	2.42	37.42	3563.12
EW-1	06/07/02	3598.57	34.33	30.73	3.60	2.88	31.45	3567.12
	08/26/02	developed well, conducted enhanced free product recovery via vacuum truck						
	11/22/02	3598.57	37.82	30.65	7.17	5.74	32.08	3566.49
	12/18/02	redeveloped well, conducted enhanced free product recovery via vacuum truck						
EW-2	09/19/02	3597.95	33.60		0.00	0.00	33.60	3564.35
	10/03/02	3597.95	33.61		0.00	0.00	33.61	3564.34
	10/23/02	3597.95	33.71		0.00	0.00	33.71	3564.24
	10/24/02	3597.95	33.73		0.00	0.00	33.73	3564.22
	10/25/02	3597.95	33.74		0.00	0.00	33.74	3564.21
	11/15/02	3597.95	33.83		0.00	0.00	33.83	3564.12
	11/29/02	3597.95	33.83		0.00	0.00	33.83	3564.12
	12/18/02	3597.95	33.65	33.60	0.05	0.04	33.61	3564.34
	12/18/02	redeveloped well, conducted enhanced free product recovery via vacuum truck						
	03/04/03	3597.95	33.65	31.23	2.42	1.94	31.71	3566.24
	03/13/03	redeveloped well, conducted enhanced free product recovery via vacuum truck						
	03/13/03	3597.95	33.80	33.59	0.21	0.17	33.63	3564.32
	04/07/03	3597.95	35.40	33.53	1.87	1.50	33.90	3564.05
	06/23/03	3597.95	33.62	29.02	4.60	3.68	29.94	3568.01
	06/23/03	re-adjusted free product pump						
06/24/03	3597.95	33.51	33.50	0.01	0.01	33.50	3564.45	

Notes:

L.P.H. = Liquid Phase Hydrocarbon

NM = Not Measured

Blank Fields Indicate No Data

Table 2a
Summary of Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 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-13	07/14/03	<1.00	<1.00	14.2	<1.00	14.2	0.125	<0.10
MW-13	10/16/03	<1.0	<1.0	21	<3.0	21	<0.10	<0.048
EW-1	07/14/03	2,590	2,160	406	471	5,627	6.01	1.56
EW-1	10/16/03	2,800	1,800	690	680	5,970	11	460
EW-2	07/14/03	1,760	1,790	198	559	4,307	2.92	<2.0
EW-2	10/16/03	2,800	2,600	440	720	6,560	12	0.88
IW-2	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
IW-2	10/15/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
IW-2	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
IW-3	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
IW-3	10/15/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
IW-3	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
IW-4	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
IW-4	10/16/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
IW-4	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
IW-5	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
IW-5	10/16/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.086
IW-5	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	16
IW-6	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
IW-6	10/16/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.15
IW-6	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	11
IW-7	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
IW-7	10/16/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.64
IW-7	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	0.15	40
SVE-1	07/14/03	<1.00	<1.00	<1.00	<1.00	BDL	<0.10	<0.10
SVE-1	10/16/03	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	<0.048
SVE-1	01/20/04	<1.0	<1.0	<1.0	<3.0	BDL	<0.10	0.055

Notes:
 µg/L = micrograms per liter
 mg/L = milligrams per liter
 BDL = below detection limit

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 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-2	07/16/99	3.6	2.7	1.3	0.5	<2.0	<2.0
	10/20/99	4.2	2.5	1.3	1.3	<2.0	<2.0
	01/13/00	1.9	0.5	<0.5	<0.5	<2.0	<2.0
	04/06/00	4.3	4.1	1.4	<2	<1.0	<1.0
	08/01/00	1.7	1.5	0.72	<2	<1.0	<1.0
	11/15/00	52.0	36.0	7.80	9.4	0.64	<0.52
	03/06/01	7.3	5.0	1.40	2.1	0.14	<0.56
	06/26/01	4.9	3.2	1.00	<2	0.18	<0.56
	09/25/01	18.0	7.4	1.40	2.1	0.20	<0.56
	12/12/01	3.6	2.9	<1.0	1.6	<0.10	0.122
	05/20/02	3.7	2.0	<1.0	1.8	<0.10	0.117
MW-3	07/16/99	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0
	10/20/99	2.6	1.0	<0.5	<0.5	<2.0	<2.0
	01/13/00	20	16	9.2	20	<2.0	<2.0
	04/06/00	3,800	3,800	910	1,100	<1.0	<1.0
MW-4	07/16/99	720	1,100	260	280	3.0	3.0
MW-9	07/16/99	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0
	10/20/99	2.8	<0.5	<0.5	<0.5	<2.0	<2.0
	01/13/00	110	2	20	15	<2.0	<2.0
	04/06/00	2,700	870	500	460	0.37	0.37
	08/01/00	3,400	1,100	520	270	1.10	1.10
	11/15/00	4,200	120	460	140	16	0.73
	03/06/01	4,300	370	920	210	20	<0.56
MW-10	07/16/99	1.8	<0.5	<0.5	<0.5	<2.0	<2.0
	10/20/99	3.8	2.3	<0.5	<0.5	<2.0	<2.0
	01/13/00	2	1	2.5	2	<2.0	<2.0
	04/06/00	2.7	7.2	0.69	<2	<1.0	<1.0
	08/01/00	40	1.2	2.7	10	<1.0	<1.0
	11/15/00	2,000	18	310	210	9	0.78
	03/06/01	4,400	7.8	120	190	17	0.57
	06/26/01	5,600	1,300	670	<40	31	2.4
	09/25/01	5,900	1,200	760	570	26	<0.53
	12/12/01	7,090	1,560	868	655	23.5	1.35
05/20/02	9,000	1,170	1,100	640	26.4	1.4	
MW-11	10/20/99	<0.5	<0.5	1.2	1.3	<2.0	<2.0
	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
	08/01/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	<0.10	2.0
	03/06/01	0.64	1.1	<0.5	<2	<0.10	<0.56
	06/26/01	<0.5	<0.5	<0.5	<2	<0.10	<0.53
	09/25/01	1.3	<0.5	<0.5	<2	<0.10	<0.54
	12/12/01	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
05/20/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10	

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 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-12	10/20/99	1.1	<0.5	<0.5	<0.5	<2.0	<2.0
	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
	08/01/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	<0.10	<0.56
	03/06/01	0.85	0.63	<0.5	<2	<0.10	<0.56
	06/26/01	<0.5	<0.5	<0.5	<2	<0.10	<0.53
	09/25/01	2.8	0.53	<0.5	<2	<0.10	<0.52
	12/12/01	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
05/20/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10	
MW-13	04/06/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	08/01/00	<0.5	<0.5	<0.5	<2	<1.0	<1.0
	11/15/00	<0.5	<0.5	<0.5	<2	<0.10	0.57
	03/06/01	<0.5	1.3	<0.5	<2	<0.10	<0.55
	06/26/01	<0.5	<0.5	<0.5	<2	<0.10	<0.5
	09/25/01	22	3.4	2.5	<2	0.15	<0.5
	12/12/01	439	<1.00	<1.00	20.4	1.24	0.125
	05/20/02	<1.00	<1.00	<1.00	32.8	0.535	0.184
	08/29/02	<5.00	1.0	<1.00	1.3	0.145	0.133
	01/15/03	<1.00	<1.00	<1.00	<1.00	<0.10	0.116
	04/23/03	<1.00	<1.00	5.2	<1.00	0.124	<0.10
	07/14/03	<1.00	<1.00	14.2	<1.00	0.125	<0.10
10/16/03	<1.0	<1.0	21	<3.0	<0.10	<0.048	
EW-1	11/15/02	7,460	5,130	1,590	1,590	21.4	NA
	11/22/02	9,340	6,150	2,270	2,210	15.3	NA
	04/24/03	4,410	2,500	952	793	13.1	2.56
	07/14/03	2,590	2,160	406	471	6.01	1.56
	10/16/03	2,800	1,800	690	680	11	460
EW-2	11/15/02	2,160	1,390	307	489	8.88	NA
	11/22/02	2,110	2,340	881	1,280	11.3	NA
	04/24/03	3,080	2,680	541	885	6.07	<1.0
	07/14/03	1,760	1,790	198	559	2.92	<2.0
	10/16/03	2,800	2,600	440	720	12	0.88
IW-2	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/15/03	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
IW-3	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/15/03	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048

Table 2b
Groundwater Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 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)
IW-4	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
IW-5	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	01/15/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.086
	01/20/04	<1.0	<1.0	<1.0	<3.0	<0.10	16
IW-6	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	7.62
	01/15/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.15
	01/20/04	<1.0	<1.0	<1.0	<3.0	<0.10	11
IW-7	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	01/15/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	<0.10	0.64
	01/20/04	<1.0	<1.0	<1.0	<3.0	0.15	40
SVE-1	08/29/02	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	01/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	04/23/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	07/14/03	<1.00	<1.00	<1.00	<1.00	<0.10	<0.10
	10/16/03	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
	01/20/04	<1.0	<1.0	<1.0	<3.0	<0.10	0.055

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
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
MW-2	07/16/99	28			
	10/20/99	180			
	01/13/00	200			
	04/06/00	190			
	08/01/00	180			
	11/15/00	170			
	03/06/01	160			
	06/26/01	170			
	09/25/01	150			
	12/12/01	151			
	05/20/02	137	590	3,090	98
MW-3	07/16/99	170			
	10/20/99	120			
	01/13/00	160			
	04/06/00	170			
MW-4	07/16/99	190			
MW-9	07/16/99	140			
	10/20/99	110			
	01/13/00	130			
	04/06/00	140			
	08/01/00	140			
	11/15/00	140			
	03/06/01	130			
MW-10	07/16/99	100			
	10/20/99	120			
	01/13/00	170			
	04/06/00	210			
	08/01/00	160			
	11/15/00	200			
	03/06/01	180			
	06/26/01	170			
	09/25/01	170			
	12/12/01	169			
	05/20/02	164	594	1,870	303
MW-11	10/20/99	120			
	01/13/00	140			
	04/06/00	120			
	08/01/00	110			
	11/15/00	110			
	03/06/01	100			
	06/26/01	110			
	09/25/01	150			
	12/12/01	100			
	05/20/02	96	1,280	3,430	51

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
MW-12	10/20/99	140			
	01/13/00	140			
	04/06/00	130			
	08/01/00	120			
	11/15/00	120			
	03/06/01	91			
	06/26/01	120			
	09/25/01	110			
	12/12/01	109			
	05/20/02	100	845	11,700	106
MW-13	04/06/00	56			
	08/01/00	71			
	11/15/00	86			
	03/06/01	110			
	06/26/01	120			
	09/25/01	110			
	12/12/01	114			
	05/20/02	111	905	1,200	18
	08/29/02	106		5,720	
	01/15/03	113			
	04/23/03	406		351	
	07/14/03	125			
	10/16/03	120			
EW-1	07/16/03	172			
	10/16/03	147		220	
EW-2	07/16/03	160			
	10/16/03	164		220	
IW-2	08/29/02	86		6,550	
	01/14/03	132			
	04/23/03	152		89	
	07/14/03	171			
	10/15/03	103			
	01/20/04	97			
IW-3	08/29/02	82		8,280	
	01/14/03	94.6			
	04/23/03	115		1,470	
	07/14/03	161			
	10/15/03	99.1			
	01/20/04	89.3			
IW-4	08/29/02	99.5		2,450	
	01/14/03	111			
	04/23/03	153		221	
	07/14/03	118			
	10/16/03	141			
	01/20/04	114			

Table 2c
Groundwater Analytical Data - Inorganics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Well Number	Sample Date	Chloride (mg/L)	Total Hardness (mg/L)	Iron (µg/L)	Manganese (µg/L)
IW-5	08/29/02	90		3,330	
	01/15/03	117			
	04/23/03	156		2,130	
	07/14/03	160			
	10/16/03	166			
	01/20/04	140			
IW-6	08/29/02	92		7,160	
	01/15/03	100			
	04/23/03	132		270	
	07/14/03	120			
	10/16/04	165			
	01/20/04	138			
IW-7	08/29/02	161		18,600	
	01/15/03	142			
	04/23/03	152		524	
	07/14/03	140			
	10/16/03	165			
	01/20/04	138			
SVE-1	08/29/02	96.5			
	01/14/03	122			
	04/23/03	123		2,270	
	07/14/03	117			
	10/16/03	113			
	01/20/04	105			

Notes:

mg/L = milligrams per liter

µg/L = micrograms per liter

Blank Fields Indicate No Data

Table 3
Summary of Monthly Groundwater Recovery
and Effluent Discharge Volumes
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Date	Recovery <i>(gallons per month)</i>		Groundwater Effluent Discharge <i>(gallons per month)</i>						
	EW-1	EW-2	Tower	IW-2	IW-3	IW-4	IW-5	IW-6	IW-7
Nov-02	760	30,220	31,000	4,110	20	70	2,100	30	20,660
Dec-02	4,740	7,860	12,600	6,620	0	150	580	380	4,660
Jan-03	0	0	0	0	0	0	0	0	0
Feb-03	7,380	4,520	11,900	6,310	0	610	370	290	4,230
Mar-03	9,600	0	9,600	1,550	350	2,300	1,260	1,350	1,730
Apr-03	13,370	9,960	17,200	630	3,160	6,740	4,100	1,610	630
May-03	3,360	9,860	13,900	0	2,520	6,220	4,020	1,180	0
Jun-03	19,400	25,030	46,500	4,030	6,840	24,100	5,740	2,890	440
Jul-03	9,190	36,920	50,600	0	0	44,640	1,410	90	60
Aug-03	10,660	39,920	53,600	0	0	50,930	1,950	460	50
Sep-03	15,888	33,239	52,069	3	6	3,100	18,119	17,884	8,022
Oct-03	12,552	21,287	40,708	0	0	0	12,910	15,989	9,723
Nov-03	264	25,633	35,372	0	0	0	19,006	10,003	3,183
Dec-03	237	21,373	28,658	0	0	0	13,709	9,571	3,239
Jan-04	197	8,466	24,743	0	0	0	8,562	6,993	6,457
Feb-04	107	3,297	17,605	0	0	0	4,712	0	11,773
Total Gallons =	107,705	277,585	446,055	23,253	12,896	138,860	98,548	68,720	74,857

Table 4a
Groundwater Effluent Discharge
Analytical Data - Organics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TVPH (mg/L)	TEPH (mg/L)
11/08/2002	<2.0	<2.0	<2.0	<6.0	<2.0	<2.0
11/15/2002	<2.0	<2.0	<2.0	<6.0	<0.1	
11/22/2002	<2.0	<2.0	<2.0	<6.0	<0.1	
11/29/2002	<1.0	<2.0	<2.0	<2.0		
12/09/2002	<2.0	<2.0	<2.0	<6.0		
12/19/2002	<2.0	<2.0	<2.0	<6.0		
02/24/2003	<2.0	<2.0	<2.0	<6.0	<0.1	
03/03/2003	<2.0	<2.0	<2.0	<6.0	<0.1	
04/07/2003	<2.0	<2.0	<2.0	<6.0		
04/24/2003	<2.0	<2.0	<2.0	<6.0	<1.0	<1.0
05/12/2003	<2.0	<2.0	<2.0	<6.0		
06/17/2003	<2.0	<2.0	<2.0	<6.0	<0.02	
07/14/2003	<2.0	<2.0	<2.0	<6.0	<2.0	<2.0
08/01/2003	<2.0	<2.0	<2.0	<6.0		
09/02/2003	<2.0	<2.0	<2.0	<6.0		
10/16/2003	<1.0	<1.0	<1.0	<3.0	<0.10	<0.048
11/25/2003	<1.0	<1.0	<1.0	<3.0		
12/30/2003	<1.0	<1.0	<1.0	<3.0		
01/29/2004	<1.0	<1.0	<1.0	<3.0		

Notes:

µg/L = micrograms per liter

mg/L = milligrams per liter

TVPH = Total Volatile Petroleum Hydrocarbons (TPH-GRO)

TEPH = Total Extractable Petroleum Hydrocarbons (TPH-DRO)

Blank Fields Indicate No Data

Table 4b
Groundwater Effluent Discharge
Analytical Data - Inorganics
 ConocoPhillips
 Line NM1-1
 Hobbs, New Mexico

Date	Chloride (mg/L)	TDS (mg/L)	TSS (mg/L)	pH (SU)	Iron (mg/L)
11/08/2002	120	540	8	7 to 8 ⁽¹⁾	
11/15/2002	160			8.28 ⁽²⁾	
11/22/2002	172	629	20	7 to 8 ⁽¹⁾	<0.01
11/29/2002				7 to 8 ⁽¹⁾	
12/19/2002	152			7 to 8 ⁽¹⁾	
12/27/2002	156			7 to 8 ⁽¹⁾	
02/24/2003	172			7 to 8 ⁽¹⁾	
03/03/2003	156			7 to 8 ⁽¹⁾	
04/07/2003	160			7 to 8 ⁽¹⁾	
04/24/2003		655	34	7.94 ⁽²⁾	<0.01
05/12/2003	174			7 to 8 ⁽¹⁾	
06/17/2003	376	643	5	7.97 ⁽²⁾	
06/23/2003	172				
07/14/2003	168	616	2	7.83 ⁽²⁾	
08/01/2003	192				
10/16/2003	162	980	<10.0	7.8 ⁽²⁾	<0.10
11/25/2003	153				
12/30/2003	140				
01/29/2004	138				

Notes:

(1) measured with field pH paper

(2) laboratory analysis data

mg/L = milligrams per liter

SU = standard pH units

TDS = Total Dissolved Solids

TSS = Total Suspended Solids

Blank Fields Indicate No Data

APPENDIX A
Laboratory Analytical Data

7/17/03

HIGGINS & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, 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 NM1-1
Project Number: .
Laboratory Project Number: 339301.

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
SVE#1	03-A108962	7/14/03
MW#13	03-A108963	7/14/03
IW-2	03-A108964	7/14/03
IW-3	03-A108965	7/14/03
IW-4	03-A108966	7/14/03
IW-5	03-A108967	7/14/03
IW-6	03-A108968	7/14/03
IW-7	03-A108969	7/14/03

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: *mi A. m*

Report Date: 7/17/03

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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108962
Sample ID: SVE#1
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/15/03	22:49	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/15/03	22:49	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/15/03	22:49	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/15/03	22:49	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/15/03	22:49	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	1:07	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	117000	ug/L	10000	10	7/15/03	21:59	W. Choate	325.2	4323

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	94.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108962

Sample ID: SVE#1

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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108963
Sample ID: MW#13
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/15/03	23:21	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/15/03	23:21	I. Ahmed	8021B	4348
Ethylbenzene	14.2	ug/L	1.0	1	7/15/03	23:21	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/15/03	23:21	I. Ahmed	8021B	4348
TPH (Gasoline Range)	125.	ug/L	100.	1	7/15/03	23:21	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	1:27	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	125000	ug/L	10000	10	7/15/03	21:59	W. Choate	325.2	4323

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	99.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	106.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108963

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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108964
Sample ID: IW-2
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/15/03	23:53	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/15/03	23:53	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/15/03	23:53	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/15/03	23:53	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/15/03	23:53	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	1:46	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	171000	ug/L	10000	10	7/15/03	22:04	W. Choate	325.2	4323

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	93.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108964
Sample ID: IW-2
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 & ASSOCIATES, LLC/UST 10588
 CHRIS HIGGINS
 8200 S. AKRON, STE 120
 ENGLEWOOD, CO 80112

Lab Number: 03-A108965
 Sample ID: IW-3
 Sample Type: Water
 Site ID:

Project:
 Project Name: HOBBS NM1-1
 Sampler: NICK FISCHER

Date Collected: 7/14/03
 Time Collected:
 Date Received: 7/15/03
 Time Received: 8:15
 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	7/16/03	0:24	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/16/03	0:24	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/16/03	0:24	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/16/03	0:24	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/16/03	0:24	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	2:06	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	161000	ug/L	10000	10	7/15/03	22:00	W. Choate	325.2	4323

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	93.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108965
Sample ID: IW-3
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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108966
Sample ID: IW-4
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/16/03	0:56	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/16/03	0:56	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/16/03	0:56	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/16/03	0:56	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/16/03	0:56	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	2:25	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	118000	ug/L	10000	10	7/15/03	22:00	W. Choate	325.2	4323

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	95.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108966
Sample ID: IW-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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108967
Sample ID: IW-5
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/16/03	1:27	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/16/03	1:27	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/16/03	1:27	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/16/03	1:27	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/16/03	1:27	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	2:44	M.Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	160000	ug/L	10000	10	7/15/03	22:01	W. Choate	325.2	4323

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	104.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108967

Sample ID: IW-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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108968
Sample ID: IW-6
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/16/03	1:59	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/16/03	1:59	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/16/03	1:59	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/16/03	1:59	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/16/03	1:59	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	4:02	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	120000	ug/L	10000	10	7/15/03	22:01	W. Choate	325.2	4323

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	81.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	105.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108968
Sample ID: IW-6
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 & ASSOCIATES, LLC/UST 10588
CHRIS HIGGINS
8200 S. AKRON, STE 120
ENGLEWOOD, CO 80112

Lab Number: 03-A108969
Sample ID: IW-7
Sample Type: Water
Site ID:

Project:
Project Name: HOBBS NM1-1
Sampler: NICK FISCHER

Date Collected: 7/14/03
Time Collected:
Date Received: 7/15/03
Time Received: 8:15
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	7/16/03	2:30	I. Ahmed	8021B	4348
Toluene	ND	ug/L	1.0	1	7/16/03	2:30	I. Ahmed	8021B	4348
Ethylbenzene	ND	ug/L	1.0	1	7/16/03	2:30	I. Ahmed	8021B	4348
Xylenes (Total)	ND	ug/L	1.0	1	7/16/03	2:30	I. Ahmed	8021B	4348
TPH (Gasoline Range)	ND	ug/L	100.	1	7/16/03	2:30	I. Ahmed	8015B	4348
TPH (Diesel Range)	ND	ug/L	100.	1	7/17/03	4:21	M. Jarrett	8015B/3510	5884
MISCELLANEOUS CHEMISTRY									
Chloride	140000	ug/L	10000	10	7/15/03	22:03	W. Choate	325.2	4323

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	94.	61. - 134.
BTEX/GRO Surr., a,a,a-TFT	104.	69. - 129.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A108969
Sample ID: IW-7
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 NM1-1
Page: 1
Laboratory Receipt Date: 7/15/03

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	0.0561	0.0500	112	60. - 143.	4348	03-A108420
Toluene	mg/l	< 0.0010	0.0559	0.0500	112	62. - 139.	4348	03-A108420
Ethylbenzene	mg/l	< 0.0010	0.0558	0.0500	112	61. - 138.	4348	03-A108420
Xylenes (Total)	mg/l	< 0.0010	0.111	0.100	111	59. - 137.	4348	03-A108420
TPH (Diesel Range)	mg/l	< 0.100	0.861	1.00	86	35. - 130.	5884	blank
BTEX/GRO Surr., a,a,a-TPT	% Recovery				108	69 - 129	4348	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.0561	0.0562	0.18	23.	4348
Toluene	mg/l	0.0559	0.0559	0.00	24.	4348
Ethylbenzene	mg/l	0.0558	0.0561	0.54	24.	4348
Xylenes (Total)	mg/l	0.111	0.112	0.90	25.	4348
TPH (Gasoline Range)	mg/l	1.07	0.919	15.18	24.	4348
TPH (Diesel Range)	mg/l	0.861	0.816	5.37	41.	5884
BTEX/GRO Surr., a,a,a-TPT	% Recovery		108.			4348

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Benzene	mg/l	0.100	0.0991	99	74 - 120	4348

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS NM1-1

Page: 2

Laboratory Receipt Date: 7/15/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/l	0.100	0.0980	98	73 - 118	4348
Ethylbenzene	mg/l	0.100	0.0974	97	72 - 118	4348
Xylenes (Total)	mg/l	0.200	0.195	98	72 - 116	4348
TPH (Gasoline Range)	mg/l	1.00	1.07	107	72 - 125	4348
BTEX/GRO Surr., a,a,a-TFT	% Recovery			109	69 - 129	4348

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
TPH (Diesel Range)	mg/l	1.00	0.844	84	35 - 130	5884

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Chloride	mg/l	10.0	9.54	95	90 - 110	4323

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Chloride	mg/l	140.	142.	1.42	15.	4323	03-A108969

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: HOBBS NM1-1

Page: 3

Laboratory Receipt Date: 7/15/03

Blank Data

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

UST PARAMETERS					
Benzene	< 0.00060	mg/l	4348	7/15/03	22:18
Toluene	< 0.0006	mg/l	4348	7/15/03	22:18
Ethylbenzene	< 0.0006	mg/l	4348	7/15/03	22:18
Xylenes (Total)	< 0.0010	mg/l	4348	7/15/03	22:18
TPH (Gasoline Range)	< 0.0740	mg/l	4348	7/15/03	22:18
TPH (Diesel Range)	< 0.100	mg/l	5884	7/16/03	21:53

Blank Data

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

UST PARAMETERS					
BTEX/GRO Surr., a,a,a-TFT	107.	% Recovery	4348	7/15/03	22:18

Blank Data

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

MISC PARAMETERS					
Chloride	< 1.00	mg/l	4323	7/15/03	21:37

End of Report for Project 339301



339301

Client: Higgins + Associates

Cooler Received On: 7/15/03 And Opened On: 7/15/03 By: Shawn Gracey

[Signature]
(Signature)

- 1. Temperature of Cooler when opened 36 **Degrees Celsius**
- 2. Were custody seals on outside of cooler?.....YES...**NO**...NA
 - a. If yes, how many, what kind and where: _____
- 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: - Received 1 vial for IW-7 broken in shipment.

<u>Fed-Ex</u>	UPS	Velocity	Airborne	Route	Off-street	Misc.
---------------	-----	----------	----------	-------	------------	-------

TestAmerica

INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

339301

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

Client Name: Higgins Associates Client #: _____
Address: 8300 S Akron Suite 117
City/State/Zip Code: Centennial, CO 80112
Project Manager: Chris Higgins
Telephone Number: 303-708-9048 Fax: 9048
Sampler Name: (Print Name) Nick Fischer
Sampler Signature: Nick Fischer

Project Name: Hobbs NM1-1
Project #: _____
Site/Location ID: Hobbs NM1-1 State: NM
Report To: Chris Higgins
Invoice To: Patry Jensen
Quote #: _____ PO#: _____

TAT Standard <input checked="" type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix Preservation & # of Containers						Other (Specify)	Analyze For:	QC Deliverables	REMARKS				
						SL - Sludge DW - Drinking Water	GW - Groundwater S - Soil/Solid	MW - Wastewater	Specify Other	HNO ₃	HCl					NaOH	H ₂ SO ₄	Methanol	None
SVE #1		7/14											GW						
NW #13		7/14											GW						
TW-2		7/14											GW						
TW-3		7/14											GW						
TW-4		7/14											GW						
TW-5		7/14											GW						
TW-6		7/14											GW						
TW-7		7/14											GW						

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp: _____
Rec Lab Temp: 3.6
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: _____

Relinquished By: <u>Nick Fischer</u>	Date: <u>7/14</u>	Time: <u>4:00 PM</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>7/15/01</u>	Time: <u>10:45</u>

**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.

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

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
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
DISCHAGRE 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
Date Sampled...: 10/15/03 18:00 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	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 RECOVERY</u>	<u>RECOVERY 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 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	80	(28 - 131)	
Dotriacontane	101	(37 - 139)	

CONOCOPHILLIPS

Client Sample ID: IW-2

General Chemistry

Lot-Sample #...: I3J170173-002 Work Order #...: F2R7L Matrix.....: WATER
Date Sampled...: 10/15/03 18:25 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	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 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	87	(28 - 131)
Dotriacontane	88	(37 - 139)

CONOCOPHILLIPS

Client Sample ID: IW-4

General Chemistry

Lot-Sample #...: I3J170173-003 Work Order #...: F2R71 Matrix.....: WATER
Date Sampled...: 10/16/03 09:45 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	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 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-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 LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.086	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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 Matrix.....: WATER
Date Sampled...: 10/16/03 10:30 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	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 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)	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 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-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</u>	
		<u>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
Date Sampled...: 10/16/03 12:40Work Order #...: F2R75
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	165	20.0	mg/L	MCAWW 300.0A	10/28/03	3302234

Dilution Factor: 20

COMOCOPHILLIPS

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 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	(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	MCAW 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</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 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 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)	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 LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK 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

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
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</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	11	5.0	mg/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
	<u>RECOVERY</u>	<u>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</u>	
		<u>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</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>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 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	F2WQMLAJ

Dilution Factor: 1

CONOCOPHILLIPS

Client Sample ID: EW-1

General Chemistry

Lot-Sample #...: I3J170173-011 Work Order #...: F2WQM Matrix.....: WATER
 Date Sampled...: 10/16/03 16:25 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>
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</u>	
		<u>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</u>	<u>RECOVERY</u>	
	<u>RECOVERY</u>	<u>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 #....: F2WQ1AC 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 LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.88	0.048	mg/L

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

CONOCOPHILLIPS

Client Sample ID: EW-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	F2WQNL1AJ

Dilution Factor: 1

CONOCOPHILLIPS

Client Sample ID: KW-2

General Chemistry

Lot-Sample #...: I3J170173-012 Work Order #...: F2WQN
 Date Sampled...: 10/16/03 16:35 Date Received...: 10/18/03

Matrix.....: WATER

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 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-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</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	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

Matrix.....: WATER

Date Sampled...: 10/17/03 11:55

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	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 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-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</u>	
		<u>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</u>	<u>RECOVERY</u>	
	<u>RECOVERY</u>	<u>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
Date Sampled...: 10/17/03 12:30 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	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</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	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 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	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 LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK 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 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-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 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 RECOVERY</u>	<u>RECOVERY 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 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)	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
Date Sampled...: 10/17/03 14:40 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	59.2	20.0	mg/L	MCAW 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</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-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 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)	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</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>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>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 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	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
Date Sampled...: 10/17/03 16:05 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	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</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)	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 LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.14	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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
Date Sampled....: 10/20/03 14:45 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	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: SVE-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 LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	1.9	0.10	mg/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
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 LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.13	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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
Date Sampled...: 10/20/03 16:15 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	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 LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	6.4	1.0	mg/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	1900	20	ug/L
Ethylbenzene	130	20	ug/L
Toluene	30	20	ug/L
Xylenes (total)	220	60	ug/L
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
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 LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.23	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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
Date Sampled...: 10/20/03 17:10 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	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 LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.46	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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 LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	0.10	mg/L	SW846 8015B
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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 Work Order #...: F3VQ01AA Matrix.....: WATER
 MB Lot-Sample #: I3J310000-302
 Prep Date.....: 10/30/03
 Analysis Date...: 10/30/03 Prep Batch #...: 3304302
 Dilution Factor: 1

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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY 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>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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>
------------------	-----------------------------	----------------------------	---------------	---------------------------------------	---------------------

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

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

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

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

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
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

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
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 RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK 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		RPD		METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	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

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

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

007224

Severn Trent Laboratories, Inc.

Client: **CONOCO PHILLIPS / MAXIM** Date: **10-16-03** Page **1** of **1**

Project Manager: **GREG W. POPE**

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**

Project Number/Name: **4640004 / NMI-1** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote Number: _____

Sample I.D. Number and Description	Date	Time	Sample Type	Containers		Preservative	Condition on Receipt/Comments
				Volume	Type No.		
TW-3	10-15-03	1800	AQ/GA	1-L	40ML	40ML/40ML	2.40 10-17-03 CC
TW-2	10-15-03	1820	AQ/GA	1-L	40ML	40ML/40ML	SEE APP
TW-4	10-16-03	0945	AQ/GA	1-L	40ML	40ML/40ML	
TW-5	10-16-03	1030	AQ/GA	1-L	40ML	40ML/40ML	
MW-13	10-16-03	1100	AQ/GA	1-L	40ML	40ML/40ML	
TW-6	10-16-03	1240	AQ/GA	1-L	40ML	40ML/40ML	
TW-7	10-16-03	1315	AQ/GA	1-L	40ML	40ML/40ML	
SVE-1	10-16-03	1510	AQ/GA	1-L	40ML	40ML/40ML	
TRAIN BLANK							

Special Instructions: _____

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B OC Level I. II. III.

Turn Around Time Required: Normal Rush Other _____

1. Relinquished By: *[Signature]* Date: **10-16-03** Time: **16:02**

2. Relinquished By: *[Signature]* Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months

Project Specific Requirements (Specify): _____

1. Received By: *[Signature]* Date: **10-17-03** Time: **0517**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: _____

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

004412

SEVERN
TRENT
STL

Severn Trent Laboratories, Inc.

I3J1701B-10-21

Chain of Custody
Record

STL4149 (1202)

Client: **CONDOPHILLIPS / MAXIM** Project Manager: **GREG W. POPE** Date: **10-17-03** Page **1** of **1**

Address: **1703 W. INDUSTRIAL AVE** Telephone Number (Area Code)/Fax Number: **(432)686-8081 / 686-7085** Lab Location: **AUSTIN, TX**

City: **MIDLAND** State: **TX** Zip Code: **79701** Site Contact: **GREG W. POPE** Carrier/Waybill Number: _____

Project Number/Name: **4640004/5 - NMI-1 / E. HOBBS JCT**

Contract/Purchase Order/Quote Number: _____

Sample I.D. Number and Description	Date	Time	Sample Type	Containers		Preservative	Condition on Receipt/Comments	Analysis
				Volume	Type			
AFTER TOWER	10-16-03	1615	AG	1-6/123740	AN/P	B HCl/NaOH	300 10-18-03 CC	XX XX XXXX
EW-1	10-16-03	1625					1X10m Broken	XX XX XXXX
EW-2	10-16-03	1635					SEE APP	XX XX XXXX
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	1730						XX 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.

1. Fulfilled By: _____ Date: **10-17-03** Time: **1700**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Project Specific Requirements (Specify):

1. Received By: _____ Date: **10-18-03** Time: **10510**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments

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

Chain of Custody
Record

STL4149 (1202)

Client: **CONGO PHILLIPS / MAXIM**
 Address: **1703 W. INDUSTRIAL AVE**
 City: **MIDLAND TX** State: **TX** Zip Code: **79701**
 Project Number/Name: **46-40004/5 - MML-1/E. HOBBS JST**
 Contract/Purchase Order/Quote Number: _____

Project Manager: **GREG W. POPE**
 Telephone Number (Area Code)/Fax Number: **(432) 616-8071 / (686) 8085**
 Site Contact: **GREG W. POPE**
 Carrier/Waybill Number: _____

Date: **10-17-03** Page: **1** of **1**
 Lab Location: **AUSTIN, TX**

Sample I.D. Number and Description	Date	Time	Sample Type	Containers		Preservative	Condition on Receipt/Comments
				Volume	Type		
DISCHARGE	10-16-03	1645	AQ	4.15	NY/P	HCL/NO	30° 10-18-03CC
MW-5	10-17-03	1410				HCL	XXXX
MW-23	10-17-03	1440				HCL	XXXX
MW-22	10-17-03	1510				HCL	XXXX
MW-13	10-17-03	1530				HCL	XXXX
MW-19	10-17-03	1601				HCL	XXXX

Special Instructions: _____

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months
 Turn Around Time Required Rush Other _____

Project Specific Requirements (Specify): _____

Sample Disposal:
 Return To Client GC Level I. II. III.

1. Relinquished By: **[Signature]** Date: **10-17-03** Time: **1705**
 2. Relinquished By: **[Signature]** Date: **10-18-03** Time: **0930**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

RECEIVED BY [Signature]
 DATE/TIME RECEIVED: 10-17-03 0915
 UNPACKED DATE/TIME: 10-17-03 1010
 CLIENT/PROJECT: CONOCO PHILLIPS

Lot No. I3J170173
 COC NUMBER: 007224
 QUOTE/PROFILE: 55401
 SAMPLES LOGGED IN: _____ LOG-IN REVISED: _____

Number of Shipping Containers Received with Chain of Custody 1 [Signature]

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

1.0 CONTAINERS EXAMINED UPON RECEIPT: 10
 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: 10 PYROMETER #: 84

The temperature of the container(s) is: _____ (acceptable tolerance 1.4°C)

<u>2.42</u>											
-------------	--	--	--	--	--	--	--	--	--	--	--

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: [Signature]

Base samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

Cyanide samples checked for sulfides: YES 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	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 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 #: _____
 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: CCB 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: 135170173-00-021

DATE/TIME RECEIVED: 10-18-03 0950

COC NUMBER: 07412-07414

UNPACKED DATE/TIME: 10-18-03 1130

QUOTE/PROFILE: Q55401

CLIENT/PROJECT: CMOLO

SAMPLES LOGGED IN: _____ LOG-IN REVISED: _____

Number of Shipping Containers Received with Chain of Custody: 2

EC [Signature]

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

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

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: Q4 PYROMETER #: 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 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 for sulfides: YES 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	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: CSB Date: 11-7-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM ^{lot}
add to #33170173 starting w/023
Lot No. _____ -027

RECEIVED BY: [Signature]

COC NUMBER: 87382

DATE/TIME RECEIVED: 10-22-03 0815

QUOTE/PROFILE: 55401

UNPACKED DATE/TIME: 10-22-03 0940

CLIENT/PROJECT: Co. 2000

SAMPLES LOGGED IN: _____ LOG-IN REVISED: _____

Number of Shipping Containers Received with Chain of Custody _____

[Signature] ← [Signature]

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

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

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)

<u>26°C</u>											
-------------	--	--	--	--	--	--	--	--	--	--	--

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 for sulfides: YES 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
<u>Trip Blank</u>	<u>10mm, 15mm</u>

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 2K40ml

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~~ Broken
sample received 4K40ml; 1X1L, 1X250ml

CORRECTIVE ACTION:

Client's Name: G. Pope Informed verbally on: 10-22-03 By: CMS
 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: CMS Date: 11-7-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: ISJ170173 - 028

RECEIVED BY: [Signature]

COC NUMBER: 141458

DATE/TIME RECEIVED: 10-24-03 0800

QUOTE/PROFILE: 55407

UNPACKED DATE/TIME: 10-24-03 1030

CLIENT/PROJECT: Conoco

SAMPLES LOGGED IN: _____ LOG-IN REVISED: _____

Number of Shipping Containers Received with Chain of Custody: 1

[Signature] [Signature]

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

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

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 #: P5

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

<u>3.7°C</u>																			
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 for sulfides: YES 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	mm Headspace

**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. HOBBS, NM

3374 NM1-1 Qtrly GWM

Lot #: I4A220261

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: **I4A220261**

This report contains the analytical results for the nine samples received under chain of custody by Severn Trent Laboratories (STL) on January 22, 2004. These samples are associated with your 3374 NM1-1 Qtrly GWM project.

All samples were received in good condition and within temperature requirements.

Surrogate recoveries were approximately 10% below in-house control limits for the DRO analysis of sample 007 due to the matrix required dilution.

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

I4A220261

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
IW-2 01/20/04 09:00 001				
Chloride	97.0	50.0	mg/L	MCAWW 300.0A
IW-3 01/20/04 09:50 002				
Chloride	89.3	50.0	mg/L	MCAWW 300.0A
IW-4 01/20/04 10:30 003				
Chloride	114	50.0	mg/L	MCAWW 300.0A
IW-5 01/20/04 11:00 004				
Diesel Range Organics	16	0.095	mg/L	SW846 8015B
Chloride	140	50.0	mg/L	MCAWW 300.0A
IW-6 01/20/04 14:15 006				
Diesel Range Organics	11	0.048	mg/L	SW846 8015B
Chloride	138	50.0	mg/L	MCAWW 300.0A
IW-7 01/20/04 15:15 007				
Diesel Range Organics	40	0.24	mg/L	SW846 8015B
Gasoline Range Organics	0.15	0.10	mg/L	SW846 8015B
Chloride	138	50.0	mg/L	MCAWW 300.0A
SVE-1 01/20/04 16:00 008				
Diesel Range Organics	0.055	0.048	mg/L	SW846 8015B
Chloride	105	50.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

I4A220261

<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

I4A220261

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	David A. Tocher	800002
SW846 8015B	Ellen Grett	014902
SW846 8015B	Joe Lanham	000039
SW846 8021B	Joe Lanham	000039

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

I4A220261

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F8EC6	001	IW-2	01/20/04	09:00
F8ED0	002	IW-3	01/20/04	09:50
F8ED1	003	IW-4	01/20/04	10:30
F8ED3	004	IW-5	01/20/04	11:00
F8ED7	005	TRIP BLANK 1	01/21/04	15:30
F8EEP	006	IW-6	01/20/04	14:15
F8EE0	007	IW-7	01/20/04	15:15
F8EE4	008	SVE-1	01/20/04	16:00
F8EFD	009	TRIP BLANK 2	01/21/04	15:30

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

I4A220261

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		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
002	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
003	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
004	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
005	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
006	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
007	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
008	WATER	MCAWW 300.0A		4023369	4023152
	WATER	SW846 8015B		4023289	4023125
	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206
009	WATER	SW846 8015B		4028462	4028208
	WATER	SW846 8021B		4028454	4028206

CONOCOPHILLIPS

Client Sample ID: IW-2

GC Volatiles

Lot-Sample #....: I4A220261-001 Work Order #....: F8EC61AA Matrix.....: WATER
Date Sampled....: 01/20/04 09:00 Date Received...: 01/22/04
Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
Prep Batch #....: 4028462
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 - 122)

CONOCOPHILLIPS

Client Sample ID: IW-2

GC Volatiles

Lot-Sample #...: I4A220261-001 Work Order #...: F8EC61AD Matrix.....: WATER
 Date Sampled...: 01/20/04 09:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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)	100	(73 - 135)	

CONOCOPHILLIPS

Client Sample ID: IW-2

GC Semivolatiles

Lot-Sample #...: I4A220261-001 Work Order #...: F8EC61AC Matrix.....: WATER
Date Sampled...: 01/20/04 09:00 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
Prep Batch #...: 4023289
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	87	(53 - 139)
Dotriacontane	100	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: IW-2

General Chemistry

Lot-Sample #...: I4A220261-001

Work Order #...: F8EC6

Matrix.....: WATER

Date Sampled...: 01/20/04 09:00

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	97.0	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: IW-3

GC Volatiles

Lot-Sample #....: I4A220261-002 Work Order #....: F8ED01AA Matrix.....: WATER
Date Sampled...: 01/20/04 09:50 Date Received...: 01/22/04
Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
Prep Batch #....: 4028462
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: IW-3

GC Volatiles

Lot-Sample #...: I4A220261-002 Work Order #...: F8ED01AD Matrix.....: WATER
 Date Sampled...: 01/20/04 09:50 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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: IW-3

GC Semivolatiles

Lot-Sample #....: I4A220261-002 Work Order #....: F8ED01AC Matrix.....: WATER
Date Sampled....: 01/20/04 09:50 Date Received...: 01/22/04
Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
Prep Batch #....: 4023289
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	93	(53 - 139)
Dotriacontane	99	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: IW-3

General Chemistry

Lot-Sample #...: I4A220261-002 Work Order #...: F8ED0 Matrix.....: WATER
Date Sampled...: 01/20/04 09:50 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	89.3	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: IW-4

GC Volatiles

Lot-Sample #...: I4A220261-003 Work Order #...: F8ED11AA Matrix.....: WATER
Date Sampled...: 01/20/04 10:30 Date Received...: 01/22/04
Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
Prep Batch #...: 4028462
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: IW-4

GC Volatiles

Lot-Sample #...: I4A220261-003 Work Order #...: F8ED11AD Matrix.....: WATER
 Date Sampled...: 01/20/04 10:30 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	101	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: IW-4

GC Semivolatiles

Lot-Sample #...: I4A220261-003 Work Order #...: F8ED11AC Matrix.....: WATER
 Date Sampled...: 01/20/04 10:30 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
 Prep Batch #...: 4023289
 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	86	(53 - 139)
Dotriacontane	91	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: IW-4

General Chemistry

Lot-Sample #....: I4A220261-003 Work Order #....: F8ED1 Matrix.....: WATER
Date Sampled....: 01/20/04 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	114	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: IW-5

GC Volatiles

Lot-Sample #...: I4A220261-004 Work Order #...: F8ED31AA Matrix.....: WATER
 Date Sampled...: 01/20/04 11:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028462
 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 RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene (GRO)	99	(75 - 122)	

CONOCOPHILLIPS

Client Sample ID: IW-5

GC Volatiles

Lot-Sample #....: I4A220261-004 Work Order #....: F8ED31AD Matrix.....: WATER
 Date Sampled....: 01/20/04 11:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #....: 4028454
 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>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	101	(81 - 119)	
a,a,a-Trifluorotoluene (TFT)	105	(73 - 135)	

CONOCOPHILLIPS

Client Sample ID: IW-5

GC Semivolatiles

Lot-Sample #....: I4A220261-004 Work Order #....: F8ED31AC Matrix.....: WATER
 Date Sampled....: 01/20/04 11:00 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 02/04/04
 Prep Batch #....: 4023289
 Dilution Factor: 1.9 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	16	0.095	mg/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
o-Terphenyl	66	(53 - 139)	
Dotriacontane	65	(45 - 141)	

CONOCOPHILLIPS

Client Sample ID: IW-5

General Chemistry

Lot-Sample #...: I4A220261-004

Work Order #...: F8ED3

Matrix.....: WATER

Date Sampled...: 01/20/04 11:00

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	140	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 #...: I4A220261-005 Work Order #...: F8ED71AA Matrix.....: WATER
Date Sampled...: 01/21/04 15:30 Date Received...: 01/22/04
Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
Prep Batch #...: 4028462
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 #....: I4A220261-005 Work Order #....: P8ED71AC Matrix.....: WATER
 Date Sampled....: 01/21/04 15:30 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #....: 4028454
 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>PERCENT RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	98	(81 - 119)	
a,a,a-Trifluorotoluene (TFT)	100	(73 - 135)	

CONOCOPHILLIPS

Client Sample ID: IW-6

GC Volatiles

Lot-Sample #...: I4A220261-006 Work Order #...: F8EEP1AD Matrix.....: WATER
 Date Sampled...: 01/20/04 14:15 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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	102	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	108	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: IW-6

GC Semivolatiles

Lot-Sample #...: I4A220261-006 Work Order #...: F8EEP1AC Matrix.....: WATER
 Date Sampled...: 01/20/04 14:15 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
 Prep Batch #...: 4023289
 Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	11	0.048	mg/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	124	(53 - 139)
Dotriacontane	125	(45 - 141)

CONOCOPHILLIPS

Client Sample ID: IW-6

General Chemistry

Lot-Sample #...: I4A220261-006 Work Order #...: F8EEP Matrix.....: WATER
Date Sampled...: 01/20/04 14:15 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	138	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: IW-7

GC Volatiles

Lot-Sample #...: I4A220261-007 Work Order #...: F8EE01AA Matrix.....: WATER
 Date Sampled...: 01/20/04 15:15 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028462
 Dilution Factor: 1 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Gasoline Range Organics	0.15	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: IW-7

GC Volatiles

Lot-Sample #....: I4A220261-007 Work Order #....: F8EE01AD Matrix.....: WATER
 Date Sampled....: 01/20/04 15:15 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #....: 4028454
 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	96	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	111	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: IW-7

GC Semivolatiles

Lot-Sample #...: I4A220261-007 Work Order #...: F8EE01AC Matrix.....: WATER
 Date Sampled...: 01/20/04 15:15 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 02/04/04
 Prep Batch #...: 4023289
 Dilution Factor: 4.75 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	40	0.24	mg/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
	<u>RECOVERY</u>	<u>LIMITS</u>	
o-Terphenyl	44 *	(53 - 139)	
Dotriacontane	34 *	(45 - 141)	

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONOCOPHILLIPS

Client Sample ID: IW-7

General Chemistry

Lot-Sample #...: I4A220261-007 Work Order #...: F8EE0 Matrix.....: WATER
Date Sampled...: 01/20/04 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	138	50.0	mg/L	MCAWW 300.0A	01/23/04	4023369

Dilution Factor: 50

CONOCOPHILLIPS

Client Sample ID: SVE-1

GC Volatiles

Lot-Sample #....: I4A220261-008 Work Order #....: F8EE41AA Matrix.....: WATER
 Date Sampled...: 01/20/04 16:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #....: 4028462
 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 - 122)

CONOCOPHILLIPS

Client Sample ID: SVE-1

GC Volatiles

Lot-Sample #...: I4A220261-008 Work Order #...: F8EE41AD Matrix.....: WATER
 Date Sampled...: 01/20/04 16:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	100	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: SVE-1

GC Semivolatiles

Lot-Sample #...: I4A220261-008 Work Order #...: F8EE41AC Matrix.....: WATER
 Date Sampled...: 01/20/04 16:00 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
 Prep Batch #...: 4023289
 Dilution Factor: 0.95 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	0.055	0.048	mg/L
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
<u>SURROGATE</u>			
o-Terphenyl	93	(53 - 139)	
Dotriacontane	97	(45 - 141)	

CONOCOPHILLIPS

Client Sample ID: SVE-1

General Chemistry

Lot-Sample #...: I4A220261-008 Work Order #...: F8EE4 Matrix.....: WATER
Date Sampled...: 01/20/04 16:00 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	105	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 #....: I4A220261-009 Work Order #....: F8EFD1AA Matrix.....: WATER
Date Sampled...: 01/21/04 15:30 Date Received...: 01/22/04
Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
Prep Batch #....: 4028462
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 #...: I4A220261-009 Work Order #...: F8EFD1AC Matrix.....: WATER
 Date Sampled...: 01/21/04 15:30 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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)	102	(73 - 135)	

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I4A220261
MB Lot-Sample #: I4A280000-462

Work Order #...: F8PCC1AA

Matrix.....: WATER

Analysis Date...: 01/27/04
Dilution Factor: 1

Prep Date.....: 01/27/04

Prep Batch #...: 4028462

<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 - 122)		

NOTE (S) :

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I4A220261
 MB Lot-Sample #: I4A280000-454

Work Order #...: F8N9N1AA

Matrix.....: WATER

Prep Date.....: 01/27/04

Analysis Date...: 01/27/04

Prep Batch #...: 4028454

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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	97	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	101	(73 - 135)

NOTE(S) :

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I4A220261
MB Lot-Sample #: I4A230000-289

Work Order #...: F8FXR1AA

Matrix.....: WATER

Prep Date.....: 01/23/04

Analysis Date...: 02/03/04

Prep Batch #...: 4023289

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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	79	(53 - 139)		
Dotriacontane	99	(45 - 141)		

NOTE(S) :

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I4A220261

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	Work Order #: F8F9N1AA 1.0	mg/L	MB Lot-Sample #: MCAWW 300.0A	I4A230000-369 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 #...: I4A220261 Work Order #...: F8PCC1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: I4A280000-462 F8PCC1AD-LCSD
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028462
 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	104	(85 - 115)			SW846 8015B
	93	(85 - 115)	11	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	98	(81 - 123)
	99	(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 #...: I4A220261 Work Order #...: F8N9N1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: I4A280000-454 F8N9N1AD-LCSD
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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	96	(85 - 115)			SW846 8021B
	95	(85 - 115)	0.76	(0-30)	SW846 8021B
Ethylbenzene	112	(85 - 115)			SW846 8021B
	104	(85 - 115)	8.0	(0-30)	SW846 8021B
Toluene	96	(85 - 115)			SW846 8021B
	93	(85 - 115)	2.3	(0-30)	SW846 8021B
Xylenes (total)	102	(85 - 115)			SW846 8021B
	97	(85 - 115)	5.1	(0-30)	SW846 8021B
Methyl tert-butyl ether	91	(85 - 115)			SW846 8021B
	90	(85 - 115)	1.4	(0-30)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	103	(85 - 111)
	102	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	101	(84 - 114)
	103	(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 #...: I4A220261 Work Order #...: F8FXR1AC Matrix.....: WATER
 LCS Lot-Sample#: I4A230000-289
 Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
 Prep Batch #...: 4023289
 Dilution Factor: 1

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

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	92	(28 - 131)
Dotriacontane	101	(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 #...: I4A220261

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 (85 - 106)	LCS Lot-Sample#: MCAWW 300.0A	I4A230000-369 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 #...: I4A220261 Work Order #...: F8ED31AF-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220261-004 F8ED31AG-MSD
 Date Sampled...: 01/20/04 11:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028462
 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	56 a, MSC	(79 - 124)			SW846 8015B
	97 p	(79 - 124)	53	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene (GRO)	99	(75 - 122)
	98	(75 - 122)

NOTE (S) :

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

Bold print denotes control parameters

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

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 #...: I4A220261 Work Order #...: F8EC61AH-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220261-001 F8EC61AJ-MSD
 Date Sampled...: 01/20/04 09:00 Date Received...: 01/22/04
 Prep Date.....: 01/27/04 Analysis Date...: 01/27/04
 Prep Batch #...: 4028454
 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	111	(85 - 115)			SW846 8021B
	112	(85 - 115)	0.34	(0-30)	SW846 8021B
Ethylbenzene	116 a, MSC	(85 - 115)			SW846 8021B
	117 a, MSC	(85 - 115)	0.22	(0-30)	SW846 8021B
Toluene	110	(85 - 115)			SW846 8021B
	110	(85 - 115)	0.38	(0-30)	SW846 8021B
Xylenes (total)	106	(85 - 115)			SW846 8021B
	106	(85 - 115)	0.10	(0-30)	SW846 8021B
Methyl tert-butyl ether	102	(85 - 115)			SW846 8021B
	102	(85 - 115)	0.50	(0-30)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(81 - 119)
	103	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	103	(73 - 135)
	103	(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 Semivolatiles

Client Lot #...: I4A220261 Work Order #...: F8EC61AF-MS Matrix.....: WATER
 MS Lot-Sample #: I4A220261-001 F8EC61AG-MSD
 Date Sampled...: 01/20/04 09:00 Date Received...: 01/22/04
 Prep Date.....: 01/23/04 Analysis Date...: 02/03/04
 Prep Batch #...: 4023289
 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	85	(40 - 126)			SW846 8015B
	106	(40 - 126)	22	(0-30)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	65	(53 - 139)
	96	(53 - 139)
Dotriacontane	91	(45 - 141)
	107	(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 #...: I4A220261

Matrix.....: WATER

Date Sampled...: 01/21/04 14:20 Date Received...: 01/22/04

PARAMETER	PERCENT	RECOVERY	RPD		METHOD	PREPARATION-	PREP	
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	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

Lot No: IYAZZ0261

RECEIVED BY: LT

COC NUMBER: _____

DATE/TIME RECEIVED: 1-22-04/0900

QUOTE/PROFILE: 56072

UNPACKED DATE/TIME: 1-22-04/1000

CLIENT/PROJECT: Maxim Tech

SAMPLES LOGGED IN: _____ LOG-IN REVIEWED: _____

Number of Shipping Containers Received with Chain of Custody 2

ce LT

VOC AIR / FILTER SAMPLES YES SEE SECTIONS 1.0, 2.0, & 6.0

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: YES NO Custody Seal Signed/Dated: YES NO
Custody 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 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: LT PYROMETER #: P-5

The temperature of the container(s) is: [acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]

4°C	3°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 NO

PRESERVATION OF SAMPLES REQUIRED: NA YES VERIFIED BY: LT

Base samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

Cyanide samples checked for sulfides: YES 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 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 NO VOA trip blanks included: 4x40ml 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:

COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. YES N/A
 Project Management: [Signature] Date: 1/25/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

Chain of Custody Record

STL4149 (1202) \$1010541-002 CHAIN OF CUSTODY NUMBER



024749

Severn Trent Laboratories, Inc.

Client

Maxin Technologies
Address
1703 W Industrial Ave
City

State TX Zip Code 75701
Midland
Project Number/Name
3374 MM1-1 06117 GW

Project Manager
Greg Pope
Telephone Number (Area Code)/Fax Number
(432) 685-8081 / (000)

Site Contact
Greg Pope
Carrier/Waybill Number
FEDEX 83611345 6786

Date 01/14/2004
Lab Location STA Austin

Page 2 of 4

Analysis

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	Analysis
				Volume	Type	No.			
IW-6	1-20-04	1415	WATER	1L	AMBER	2	NONE	3°C RT/1-22-04	GPPI
IW-6		1415	WATER	400ML	VIAL	4	1.1 HCL		CPPC
IW-6		1415	WATER	250ML	PLASTIC	1	NONE		8HHC
IW-7		1515	WATER	1L	AMBER	2	NONE		0VSL
IW-7		1515	WATER	400ML	VIAL	4	1.1 HCL		2111
IW-7		1515	WATER	250ML	PLASTIC	1	NONE		1LDDL
SVE-1		1600	WATER	1L	AMBER	2	NONE		1LR
SVE-1		1600	WATER	400ML	VIAL	4	1.1 HCL		0
SVE-1	1-20-04	1600	WATER	250ML	PLASTIC	1	NONE		
			WATER	1L	AMBER	2	NONE		
			WATER	400ML	VIAL	4	1.1 HCL		
			WATER	250ML	PLASTIC	1	NONE		
			WATER	1L	AMBER	2	NONE		
			WATER	400ML	VIAL	4	1.1 HCL		
			WATER	250ML	PLASTIC	1	NONE		

QUOTE: 56072

CONTRACT / PURCHASE ORDER #: 3374MAX002

Special Instructions TPH-630 & DRO, 8021 RIBX

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Turn Around Time Required
 Normal Rush Other

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months
 Project Specifics Requirements (Specify)

OC Level
 I. II. III.

1. Relinquished By
 Date 1/15/04 Time 1230
 Signature: Bill Jones

2. Relinquished By
 Date 1-21-04 Time 1530
 Signature: G.P.P.

3. Relinquished By
 Date _____ Time _____

1. Received By
 Date 1-16-04 Time 800
 Signature: [Signature]

2. Received By
 Date 1-22-04 Time 8200
 Signature: [Signature]

3. Received By
 Date _____ Time _____

Comments



ARDINAL LABORATORIES

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
CENTENNIAL, CO 80112
FAX TO: (303) 708-9848 &
(505) 985-0031

Receiving Date: 05/12/03
Reporting Date: 05/14/03
Project Owner: CPPL
Project Name: CPPL HOBBS NMI-1
Project Location: NMI-1 DISCHARGE

Sampling Date: 05/12/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl (mg/L)	pH (s.u.)
ANALYSIS DATE:		05/12/03	05/12/03
H7652-1	NMI-1 DISCHARGE	172	7.38
Quality Control		1050	6.92
True Value QC		1000	7.00
% Recovery		105	98.9
Relative Percent Difference		2.0	0.1
METHODS: EPA 600/4-79-020		SM 4500 Cl ⁻	150.1

Amy Hill

Chemist

5/14/03

Date

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.



**ARDINAL
LABORATORIES**

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
CENTENNIAL, CO 80112
FAX TO: (303) 708-9848 &

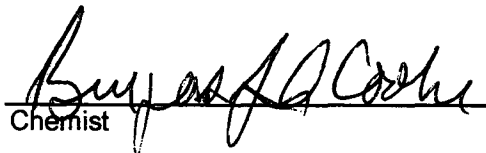
Receiving Date: 05/12/03
Reporting Date: 05/14/03
Project Owner: CPPL
Project Name: CPPL HOBBS NMI-1
Project Location: NMI-1 DISCHARGE

(505) 985-0031

Sampling Date: 05/12/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		05/12/03	05/12/03	05/12/03	05/12/03
H7652-1	NMI-1 DISCHARGE	<0.002	<0.002	<0.002	<0.006
Quality Control		0.106	0.107	0.105	0.312
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	107	105	104.0
Relative Percent Difference		6.0	6.4	5.0	3.9

METHOD: EPA SW-846 8260


Chemist

5/14/03
Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: Higgins Associates		BILL TO		ANALYSIS REQUEST															
Project Manager: Chris Higgins		P.O. #:																	
Address: B200 S. Akrod		Company: Same																	
City: Centennial		Attn: Patty Jensen																	
Phone #: 303-708-9846		Address:																	
State: CO		City:																	
Zip: 80112		State:																	
Fax #: 7848		Phone #:																	
Project #:		Fax #:																	
Project Name: CPPL Hobbs NMI-1		Project Owner: CPPL																	
Project Location: NMI-1 Discharge																			
Sampler Name: Nick Fischer																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	PRESERV	SAMPLING	DATE	TIME	BTX	Chlorides	PH
H7652-1	NMI-1 Discharge	X	3	X											5/12	4:30	X	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and limit's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the services. 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.

Sampler Relinquished: Nick Fischer **Date:** 5/12 **Time:** 4:30

Relinquished By: Nick Fischer **Received By:** (Lab Staff) Hope S. Johnson

Delivered By: (Circle One) Bus UPS Other

Sampler - UPS - Bus - Other:

Checked By: (Initials) _____

REMARKS: please fax results to Nick Fischer 505.985.0031

Phone Result: Yes No **Add'l Phone #:** _____

Fax Result: Yes No **Add'l Fax #:** _____

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



ARDINAL LABORATORIES

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, STE 117
CENTENNIAL, CO 80112
FAX TO: (303) 708-9848

Receiving Date: 06/17/03
Reporting Date: 06/19/03
Project Owner: CONOCO PHILLIPS
Project Name: HOBBS NMI-1
Project Location: HOBBS, NM

Sampling Date: 06/17/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl (mg/L)	pH (s.u.)	TDS (mg/L)	TSS (mg/L)
ANALYSIS DATE		06/18/03	06/18/03	06/19/03	06/18/03
H7735-1	NMI-1 DISCHARGE	376	7.97	643	5
Quality Control		930	7.02	NR	NR
True Value QC		1000	7.00	NR	NR
% Recovery		93.0	100	NR	NR
Relative Percent Difference		1.1	0.1	12.4	NR
METHODS: EPA 600/4-79-020		SM 4500-Cl	150.1	160.1	160.2

Amy Hill
Chemist

6/19/03
Date



**ARDINAL
LABORATORIES**

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

Receiving Date: 06/23/03
Reporting Date: 06/23/03
Project Owner: CONOCO PHILLIPS
Project Name: HOBBS NMI-1
Project Location: HOBBS, NM

Analysis Date: 06/23/03
Sampling Date: 06/23/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H7750-1	NMI-1 DISCHARGE	172
Quality Control		950
True Value QC		1000
% Recovery		95.0
Relative Percent Difference		2.0
METHOD: Standard Methods		4500-Cl ⁻ B

Amy Hill

Chemist

6/23/03

Date

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.



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (806) 393-2326 Fax (806) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page of

Company Name: <i>Higgins & Associates</i>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <i>Chris Higgins</i>		Company: <i>Patty Jones</i>			
Address: <i>8200 S Akron, Suite 117</i>		Attn:			
City: <i>Centennial</i>		Address: <i>same</i>			
Phone #: <i>303-708-9046</i>		City:			
State: <i>CO</i>		State:			
Zip: <i>9848</i>		Phone #:			
Fax #: <i>9848</i>		Fax #:			
Project #: <i>Hobbs NM-1</i>		Project Owner: <i>ConocoPhillips</i>			
Project Name: <i>Hobbs NM-1</i>					
Project Location: <i>Hobbs, New Mexico</i>					
Sampler Name: <i>Nick Fische</i>					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	PRESERV.		SAMPLING	
		MATRIX	ACID/BASE:	ICE / COOL	OTHER:
H7750-1	NM-1 Discharge	GROUNDWATER	OTHER:	DATE	TIME
		WASTEWATER	SLUDGE	6/23	9:30
		OIL			
		SOIL			
		(G) RAB OR (C) OMP.			
		# CONTAINERS			

Chlorides

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: *Nick Fische* Date: *6/23* Time: *9:45am*

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: *6/23* Time: *9:45am*

Delivered By: (Circle One) *Bus*

Sampler - UPS - Bus - Other: *Bus*

Phone Result: Yes No Yes No

Fax Result: Yes No Yes No

REMARKS:



**ARDINAL
LABORATORIES**

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: 07/14/03
Reporting Date: 07/15/03
Project Owner: CONOCO PHILLIPS
Project Name: HOBBS NMI-1
Project Location: HOBBS, NM

Sampling Date: 07/14/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (TVPH) (C ₆ -C ₁₀) (mg/Kg)	DRO (TEPH) (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
------------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	07/14/03	07/14/03	07/14/03	07/14/03	07/14/03	07/14/03
H7808-1 EW-1	6.01	1.56	2.59	2.16	0.406	0.471
H7808-2 EW-2	2.92	<2.0	1.76	1.79	0.198	0.559
H7808-3 AFTER TOWER	<2.0	<2.0	0.002	0.003	<0.002	<0.006
H7808-4 DISCHARGE	<2.0	<2.0	<0.002	<0.002	<0.002	<0.006
Quality Control	739	784	0.093	0.107	0.096	0.275
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	92.4	98.0	93.0	107	95.6	91.8
Relative Percent Difference	5.1	5.1	15.5	1.9	0.1	0.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.


Burgess A. Cooke, Ph. D.

7/15/03
Date

H7808A.XLS

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.



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, STE. 117
 CENTENNIAL, CO 80112
 FAX TO: (303) 708-9846

Receiving Date: 07/14/03
 Reporting Date: 07/17/03
 Project Owner: CONOCO PHILLIPS
 Project Name: HOBBS NMI-1
 Project Location: HOBBS, NM

Sampling Date: 07/14/03
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl (mg/L)	pH (s.u.)	TDS (mg/L)	TSS (mg/L)
------------	-----------	--------------	--------------	---------------	---------------

ANALYSIS DATE		07/16/03	07/16/03	07/17/03	07/16/03
H7808-1	EW-1	172	7.73	726	7
H7808-2	EW-2	160	7.47	764	7
H7808-3	AFTER TOWER	168	7.86	628	0
H7808-4	DISCHARGE	168	7.83	616	2
Quality Control		1020	6.99	NR	NR
True Value QC		1000	7.00	NR	NR
% Recovery		102	99.9	NR	NR
Relative Percent Difference		0	0.3	12.1	NR

METHODS: EPA 600/4-79-020	SM 4500Cl ⁻ B	150.1	160.1	160.2
---------------------------	--------------------------	-------	-------	-------

Amy Hill
 Chemist

7/17/03
 Date

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.



PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 HYGGINNS & ASSOCIATES
 ATTN: CHRIS HIGGINS
 8200 S. AKRON, SUITE 117
 CENTENNIAL, CO 80112
 FAX TO: (303) 708-9848

Receiving Date: 08/01/03
 Reporting Date: 08/04/03
 Project Owner: CONOCO-PHILLIPS
 Project Name: HOBBS NMI-1
 Project Location: HOBBS, NM

Sampling Date: 08/01/03
 Sample Type: GROUNDWATER
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		08/01/03	08/01/03	08/01/03	08/01/03	08/01/03
H7876-1	NMI-1 DISCHARGE	192	<0.002	<0.002	<0.002	<0.006
Quality Control		1000	0.094	0.107	0.094	0.269
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		100	93.7	107	93.6	89.7
Relative Percent Difference		2.0	2.1	11.0	6.9	3.8

METHODS: Cl⁻ - Std. Methods 4500-Cl⁻B; BTEX - EPA SW-846-8020

Burgess J. A. Cooke
 Burgess J. A. Cooke, Ph. D.

8/4/03
 Date

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. ~~Cardinal~~ 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.



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 383-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H7876 Page 1 of 1

Company Name: Higgins & Associates		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Chris Higgins		Company: Same					
Address: 8200 S. Arroyo Suite 117		Address: P.O. Box					
City: Centerville State: CO Zip: 80112		City:					
Phone #: 303.788.9016 Fax #:		Status: ZIP:					
Project #: Project Owner: Coaco Ph. 11.75		Phone #:					
Project Name: Hobbs NMI-1		Fax #:					
Project Location: Hobbs		Matrix:					
Sampler Name: Nick Fisher		PRESERV:					
FOR LAB USE ONLY		SAMPLING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME		
H7876-1	NMI-1 Discharge		<input checked="" type="checkbox"/> GROUNDWATER	3/1	1:20	X	BTEX
			<input type="checkbox"/> WASTEWATER			X	chlorides
			<input type="checkbox"/> SOIL				
			<input type="checkbox"/> CRUDE OIL				
			<input type="checkbox"/> SLUDGE				
			OTHER:				
			ACID/BASE:				
			ICE / COOL				
			OTHER:				

Requested By: (Lab Staff) _____
 Delivered By: (Circle One) _____
 Sampler - UFS - Bus - Other: _____
 Date: 3/1
 Time: 11:34
 Received By: _____
 Checked By: _____
 Sample Condition: OK No No

REMARKS:
 1 BTEX
 1 Chloride

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 983-2328 • 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**

Receiving Date: 09/02/03
Reporting Date: 09/03/03
Project Owner: CONOCO-PHILLIPS
Project Name: HOBBS NMI-1
Project Location: HOBBS, NM

Sampling Date: 09/02/03
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		09/03/03	08/02/03	09/02/03	09/02/03	09/02/03
H7982-1	NMI-1 DISCHARGE	164	<0.002	<0.002	<0.002	<0.008
Quality Control		1000	0.094	0.093	0.093	0.278
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		100	93.7	92.8	92.7	92.8
Relative Percent Difference		7.0	6.7	7.7	7.8	7.7

METHODS: Cl⁻ - Std. Methods 4500-ClB; BTEX - EPA SW-846-8020


Burgess J. A. Cooke, Ph. D.

9/3/03
Date

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 supervisors 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.

H7982.XLS



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H 7962

Page *1 of 1*

ANALYSIS REQUEST

Company Name: *Argon Associates*
 Project Manager: *Chris Higgins*
 Address: *ca F1e 8200 S. Arrow SATELLIT*
 City: *CENTREVILLE* State: *CO* ZIP: *80112*
 Phone #: _____ Address: _____
 Fax #: _____ City: _____
 Project #: _____ Project Owner: *ConocoPhillips* State: _____ Zip: _____
 Project Location: *Hobbs NM* Phone #: _____ Fax #: _____

LAB I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID			ICE / COOL
<i>H7962-1</i>	<i>NM-1</i>		<i>4</i>	<input checked="" type="checkbox"/>								<i>9/23/08</i>	<i>0814</i>
	<i>Discharge</i>												

ANALYSIS REQUEST	RESULTS	REMARKS
<i>BTEX</i>		
<i>chlorides</i>		

PLEASE NOTE: Usable and Damaged. Cardinal's Ruby and Quartz standard recovery for any zinc sludge whether beneath concrete or not, may be linked to the sludge itself by the user for the analysis. At other including those for negligence and any other cause whatsoever, shall be deemed void and voidable by Cardinal with no days after completion of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including third party claims, business interruption, 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 limitations or grounds.

Terms and conditions thereof will be provided on subsequent order form. 30 day lead time at the rate of 24/5 per barrel from the original date of invoice. avoid costs of collection, including attorney's fees.

Sample Requisitioned: _____
 Requisitioned By: _____
 Date: _____
 Time: _____
 Delivered By: (Circle One)
 UPS - Other: _____
 Received By: (Lab Staff) _____
 Sample Requisitioned By: _____
 Cool: Yes No
 Insulated: Yes No
 (Initials)

Phone: Reprint Yes No
 Fax Reprint: Yes No
 Additional Fax #: _____
 REMARKS:
1 BTEX
1 Chloride

↑ Cardinal cannot accept verbal changes. Please fax written changes to 815-673-7020.

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

ANALYTICAL REPORT

PROJECT NO. HOBBS, NM

NM1-1

Lot #: I3K260276

Greg Pope

Maxim Technologies
1703 W Industrial Ave
Midland, TX 79701

SEVERN TRENT LABORATORIES, INC.

Carla Butler

Carla M. Butler
Project Manager

December 8, 2003

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative

STL LOT NUMBER: I3K260276

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on November 26, 2003. These samples are associated with your NM1-1 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

I3K260276

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
DISCHARGE 11/25/03 16:15 001				
Chloride	153	20.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

I3K260276

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
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

I3K260276

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	Jennifer Havalda	000029
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

I3K260276

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F5N4P	001	DISCHARGE	11/25/03	16:15
F5N4R	002	TRIP BLANK	11/25/03	16:30

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

I3K260276

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		3342183	3342073
	WATER	SW846 8021B		3337450	3337242
002	WATER	SW846 8021B		3337450	3337242

CONOCOPHILLIPS

Client Sample ID: DISCHARGE

GC Volatiles

Lot-Sample #...: I3K260276-001 Work Order #...: F5N4P1AA Matrix.....: WATER
Date Sampled...: 11/25/03 16:15 Date Received...: 11/26/03
Prep Date.....: 12/02/03 Analysis Date...: 12/02/03
Prep Batch #...: 3337450
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	93	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	98	(84 - 114)

CONOCOPHILLIPS

Client Sample ID: DISCHARGE

General Chemistry

Lot-Sample #....: I3K260276-001 Work Order #....: F5N4P Matrix.....: WATER
Date Sampled....: 11/25/03 16:15 Date Received...: 11/26/03

<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	153	20.0	mg/L	MCAWW 300.0A	12/05/03	3342183

Dilution Factor: 20

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I3K260276-002 Work Order #...: F5N4R1AA Matrix.....: WATER
Date Sampled...: 11/25/03 16:30 Date Received...: 11/26/03
Prep Date.....: 12/02/03 Analysis Date...: 12/02/03
Prep Batch #...: 3337450
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	92	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	97	(84 - 114)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3K260276
 MB Lot-Sample #: I3L030000-450

Work Order #...: F5XW01AA

Matrix.....: WATER

Analysis Date...: 12/02/03
 Dilution Factor: 1

Prep Date.....: 12/02/03

Prep Batch #...: 3337450

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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	95	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	98	(84 - 114)

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I3K260276

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 #: F57E21AA 1.0	mg/L	MB Lot-Sample #: MCAWW 300.0A	I3L080000-183 12/05/03	3342183

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 #....: I3K260276 Work Order #....: F5XW01AD-LCS Matrix.....: WATER
 LCS Lot-Sample#: I3L030000-450 F5XW01AE-LCSD
 Prep Date.....: 12/02/03 Analysis Date...: 12/03/03
 Prep Batch #....: 3337450
 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	97	(85 - 115)			SW846 8021B
	103	(85 - 115)	6.1	(0-30)	SW846 8021B
Ethylbenzene	108	(85 - 115)			SW846 8021B
	111	(85 - 115)	2.5	(0-30)	SW846 8021B
Toluene	106	(85 - 115)			SW846 8021B
	109	(85 - 115)	3.1	(0-30)	SW846 8021B
Xylenes (total)	105	(85 - 115)			SW846 8021B
	108	(85 - 115)	2.3	(0-30)	SW846 8021B
Methyl tert-butyl ether	99	(85 - 115)			SW846 8021B
	105	(85 - 115)	5.5	(0-30)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	102	(85 - 111)
	98	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	103	(84 - 114)
	101	(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

General Chemistry

Client Lot #...: I3K260276

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	92	Work Order #: F57E21AC LCS Lot-Sample#: I3L080000-183 (85 - 106)	MCAWW 300.0A	12/05/03	3342183

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 #...: I3K260276 Work Order #...: F451J1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: I3K190220-001 F451J1AK-MSD
 Date Sampled...: 11/18/03 09:35 Date Received...: 11/19/03
 Prep Date.....: 12/02/03 Analysis Date...: 12/02/03
 Prep Batch #...: 3337450
 Dilution Factor: 500

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	100	(85 - 115)			SW846 8021B
	110	(85 - 115)	7.8	(0-30)	SW846 8021B
Ethylbenzene	115 MSC	(85 - 115)			SW846 8021B
	126 a, MSC	(85 - 115)	8.2	(0-30)	SW846 8021B
Toluene	112	(85 - 115)			SW846 8021B
	123 a, MSC	(85 - 115)	8.8	(0-30)	SW846 8021B
Xylenes (total)	112	(85 - 115)			SW846 8021B
	125 a, MSC	(85 - 115)	9.1	(0-30)	SW846 8021B
Methyl tert-butyl ether	122 a, MSC	(85 - 115)			SW846 8021B
	136 a, MSC	(85 - 115)	4.2	(0-30)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(85 - 111)
	118 *	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	108	(84 - 114)
	111	(84 - 114)

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.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I3K260276

Matrix.....: WATER

Date Sampled...: 11/13/03 08:28 Date Received...: 11/19/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#:	F49JP1AL-MS/F49JP1AM-MSD	MS Lot-Sample #:	I3K200361-001	
	106	(85 - 106)			MCAWW 300.0A	12/05/03	3342183
	104	(85 - 106)	0.48	(0-22)	MCAWW 300.0A	12/05/03	3342183

Dilution Factor: 1

NOTE(S):

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

**SEVERN
TRENT**

STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I3K260276

RECEIVED BY: _____

COC NUMBER: _____

DATE/TIME RECEIVED: 11/26/03 1000 @ 1126/03

QUOTE/PROFILE: 5607672

UNPACKED DATE/TIME: 11/26/03 1220

CLIENT/PROJECT: CONOCO PHILLIPS

SAMPLES LOGGED IN: _____ LOG-IN REVIEWED: _____

Number of Shipping Containers Received with Chain of Custody 1

(initials) (initials)

VOC AIR / FILTER SAMPLES YES SEE SECTIONS 1.0, 2.0, & 6.0

1.0 CONTAINERS EXAMINED UPON RECEIPT: (initials)

Container Sealed: YES NO Custody Seal Signed/Dated: YES NO

Custody 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 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: (initials) PYROMETER #: P-4

The temperature of the container(s) is: _____ [acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]

5.7									
-----	--	--	--	--	--	--	--	--	--

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

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

PRESERVATION OF SAMPLES REQUIRED: NA YES VERIFIED BY: (initials)

Base samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

Cyanide samples checked for sulfides: YES 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 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: DU

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: 2xTB 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:

Rec'd 3x 40ml, 1x 250ml for "DISCHARGE" 2x 40ml for TRIP BLANK
BO 8021 BTEX
Set up same as E. Hobbs Jct site

CORRECTIVE ACTION:

Client's Name: Greg Pope Informed verbally on: 11-26-03 By: CSB
 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/A

Project Management: CSB Date: 12-8-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

**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. Hobbs, New Mexico

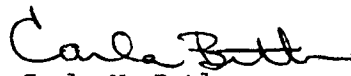
3374 NMI-1 O&M

Lot #: I3L310147

Greg Pope

Maxim Technologies
1703 W Industrial Ave
Midland, TX 79701

SEVERN TRENT LABORATORIES, INC.


Carla M. Butler
Project Manager

January 9, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative

STL LOT NUMBER: I3L310147

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on December 31, 2003. These samples are associated with your 3374 NM1-1 HOBBS, NM 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

I3L310147

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
NMI-1 DISCHARGE 12/30/03 16:05 002				
Chloride	140	50.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

I3L310147

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
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

I3L310147

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	David A. Tocher	800002
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

I3L310147

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F7G5L	001	TRIP BLANK	12/30/03	16:00
F7G5R	002	NM1-1 DISCHARGE	12/30/03	16:05

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

I3L310147

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	SW846 8021B		4005163	4005052
002	WATER	MCAWW 300.OA		4002343	4002131
	WATER	SW846 8021B		4005163	4005052

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I3L310147-001 Work Order #...: F7G5L1AA Matrix.....: WATER
Date Sampled...: 12/30/03 16:00 Date Received...: 12/31/03
Prep Date.....: 01/02/04 Analysis Date...: 01/02/04
Prep Batch #...: 4005163
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	101	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	99	(84 - 114)

CONOCOPHILLIPS

Client Sample ID: NMI-1 DISCHARGE

GC Volatiles

Lot-Sample #...: I3L310147-002 Work Order #...: F7G5R1AA Matrix.....: WATER
Date Sampled...: 12/30/03 16:05 Date Received...: 12/31/03
Prep Date.....: 01/02/04 Analysis Date...: 01/02/04
Prep Batch #...: 4005163
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	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	97	(84 - 114)

CONOCOPHILLIPS

Client Sample ID: NMI-1 DISCHARGE

General Chemistry

Lot-Sample #...: I3L310147-002 Work Order #...: F7G5R Matrix.....: WATER
Date Sampled...: 12/30/03 16:05 Date Received...: 12/31/03

<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	140	50.0	mg/L	MCAWW 300.0A	01/02/04	4002343

Dilution Factor: 50

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I3L310147
MB Lot-Sample #: I4A050000-163

Work Order #...: F7J5E1AA

Matrix.....: WATER

Analysis Date...: 01/02/04

Prep Date.....: 01/02/04

Dilution Factor: 1

Prep Batch #...: 4005163

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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	100	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	98	(84 - 114)

NOTE (S) :

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

METHOD BLANK REPORT

General Chemistry

Client Lot #....: I3L310147

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 #: F7JJ31AA 1.0	mg/L	MB Lot-Sample #: MCAWW 300.0A	I4A020000-343 01/02/04	4002343
		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 #...: I3L310147 Work Order #...: F7J5E1AC Matrix.....: WATER
 LCS Lot-Sample#: I4A050000-163
 Prep Date.....: 01/02/04 Analysis Date...: 01/02/04
 Prep Batch #...: 4005163
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	102	(85 - 115)	SW846 8021B
Ethylbenzene	108	(85 - 115)	SW846 8021B
Toluene	101	(85 - 115)	SW846 8021B
Xylenes (total)	105	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	100	(85 - 115)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	103	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	101	(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

General Chemistry

Client Lot #...: I3L310147

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	91	Work Order #: F7JJ31AC (85 - 106)	LCS Lot-Sample#: MCAWW 300.0A	I4A020000-343 01/02/04	4002343
		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 #....: I3L310147 Work Order #....: F7CND1AC-MS Matrix.....: WATER
 MS Lot-Sample #: I3L260137-004 F7CND1AD-MSD
 Date Sampled....: 12/22/03 13:50 Date Received...: 12/24/03
 Prep Date.....: 01/02/04 Analysis Date...: 01/02/04
 Prep Batch #....: 4005163
 Dilution Factor: 25

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	111	(85 - 115)			SW846 8021B
	118 a, MSC	(85 - 115)	3.2	(0-30)	SW846 8021B
Ethylbenzene	110	(85 - 115)			SW846 8021B
	124 a, MSC	(85 - 115)	5.0	(0-30)	SW846 8021B
Toluene	107	(85 - 115)			SW846 8021B
	147 a, MSC	(85 - 115)	5.7	(0-30)	SW846 8021B
Xylenes (total)	120 a, MSC	(85 - 115)			SW846 8021B
	159 a, MSC	(85 - 115)	5.6	(0-30)	SW846 8021B
Methyl tert-butyl ether	95	(85 - 115)			SW846 8021B
	97	(85 - 115)	1.6	(0-30)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	101	(85 - 111)
	100	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	120 *	(84 - 114)
	121 *	(84 - 114)

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 #...: I3L310147

Matrix.....: WATER

Date Sampled...: 12/31/03 14:00 Date Received...: 12/31/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride			WO#:	F7HJ71AF-MS/F7HJ71AG-MSD	MS Lot-Sample #:	U3L310198-001	
	90	(85 - 106)			MCAWW 300.0A	01/02/04	4002343
	102	(85 - 106)	7.8	(0-22)	MCAWW 300.0A	01/02/04	4002343
			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: 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.

EPA 8260, medium level soils: The dilution factor indicated on the sample report for medium level volatile soil samples is not the actual dilution factor by a calculation that is applied to results for medium level soil samples. For medium level soils, the dilution factor in sample reports is the following calculation:

Dilution Factor in sample report = {Actual DF/50}x {Nominal soil weight of 5.0 g/Actual soil weight in g}



STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I3L310147

RECEIVED BY: BJ

COC NUMBER: _____

DATE/TIME RECEIVED: 12/31/03 0830

QUOTE/PROFILE: 55401

UNPACKED DATE/TIME: 12/31/03 0915

CLIENT/PROJECT: Maxim

SAMPLES LOGGED IN: _____ LOG-IN REVIEWED: _____

Number of Shipping Containers Received with Chain of Custody 1

27 ce

VOC AIR / FILTER SAMPLES YES SEE SECTIONS 1.0, 2.0, & 6.0

1.0 CONTAINERS EXAMINED UPON RECEIPT: BJ

Container Sealed: YES NO Custody Seal Signed/Dated: YES NO

Custody 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 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: BJ PYROMETER #: P-4

The temperature of the container(s) is: _____ [acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]

2.1°																			
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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: BJ

Base samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

Cyanide samples checked for sulfides: YES 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 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: PA

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: 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:

COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. YES N/A
 Subject Management: MLH Date: 11/5/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

Certificate of Analysis**SEVERN
TRENT** **STL**

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

ANALYTICAL REPORT

PROJECT NO. HOBBS, NM

3374 NML-1 Qtrly GWM

Lot #: I4A300161

Greg Pope

Maxim Technologies
1703 W Industrial Ave
Midland, TX 79701

SEVERN TRENT LABORATORIES, INC.


Carla M. Butler
Project Manager

February 11, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative**STL LOT NUMBER: 14A300161**

This report contains the analytical results for the two samples received under chain of custody by Severn Trent Laboratories (STL) on January 30, 2004. These samples are associated with your 3374 NM1-1 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

I4A300161

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
DISCHARGE 01/29/04 14:30 002				
Chloride	138	50.0	mg/L	MCAWW 300.0A

ANALYTICAL METHODS SUMMARY

I4A300161

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chloride	MCAWW 300.0A
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

I4A300161

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 300.0A	David A. Tocher	800002
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

I4A300161

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F8R64	001	TRIP BLANK	01/29/04	14:25
F8R7Q	002	DISCHARGE	01/29/04	14:30

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

I4A300161

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	SW846 8021B		4040281	4040104
002	WATER	MCAWW 300.0A		4035162	4035041
	WATER	SW846 8021B		4040281	4040104

CONOCOPHILLIPS

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I4A300161-001 Work Order #...: F8R641AA Matrix.....: WATER
 Date Sampled...: 01/29/04 14:25 Date Received...: 01/30/04
 Prep Date.....: 02/08/04 Analysis Date...: 02/10/04
 Prep Batch #...: 4040281
 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 RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	102	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	101	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: DISCHARGE

GC Volatiles

Lot-Sample #....: I4A300161-002 Work Order #....: F8R7Q1AA Matrix.....: WATER
 Date Sampled....: 01/29/04 14:30 Date Received...: 01/30/04
 Prep Date.....: 02/08/04 Analysis Date...: 02/10/04
 Prep Batch #....: 4040281
 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 RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	97	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	97	(73 - 135)

CONOCOPHILLIPS

Client Sample ID: DISCHARGE

General Chemistry

Lot-Sample #...: I4A300161-002 Work Order #...: F8R7Q Matrix.....: WATER
Date Sampled...: 01/29/04 14:30 Date Received...: 01/30/04

<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	138	50.0	mg/L	MCAWW 300.0A	02/03/04	4035162

Dilution Factor: 50

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I4A300161
 MB Lot-Sample #: I4B090000-281

Work Order #...: F894A1AA

Matrix.....: WATER

Analysis Date...: 02/09/04
 Dilution Factor: 1

Prep Date.....: 02/08/04
 Prep Batch #...: 4040281

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</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	91	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	97	(73 - 135)

NOTE(S) :

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I4A300161

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	Work Order #: F813V1AA 1.0	mg/L	MB Lot-Sample #: MCAWW 300.0A	I4B040000-162 02/03/04	4035162

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 #...: I4A300161 Work Order #...: F894A1AC Matrix.....: WATER
 LCS Lot-Sample#: I4B090000-281
 Prep Date.....: 02/08/04 Analysis Date...: 02/09/04
 Prep Batch #...: 4040281
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	111	(85 - 115)	SW846 8021B
Ethylbenzene	111	(85 - 115)	SW846 8021B
Toluene	107	(85 - 115)	SW846 8021B
Xylenes (total)	109	(85 - 115)	SW846 8021B
Methyl tert-butyl ether	103	(85 - 115)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	104	(85 - 111)
a, a, a-Trifluorotoluene (TFT)	101	(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

General Chemistry

Client Lot #...: I4A300161

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	95	Work Order #: F813V1AC (85 - 106)	LCS Lot-Sample#: MCAWW 300.0A	I4B040000-162 02/03/04	4035162

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 #....: I4A300161 Work Order #....: F8X5N1AD-MS Matrix.....: WATER
 MS Lot-Sample #: I4B030119-001 F8X5N1AE-MSD
 Date Sampled...: 02/02/04 13:46 Date Received...: 02/03/04
 Prep Date.....: 02/08/04 Analysis Date...: 02/09/04
 Prep Batch #....: 4040281
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD	RPD	METHOD
	RECOVERY	LIMITS		LIMITS	
Benzene	136 a, MSC	(85 - 115)			SW846 8021B
	131 a, MSC	(85 - 115)	4.1	(0-30)	SW846 8021B
Ethylbenzene	139 a, MSC	(85 - 115)			SW846 8021B
	132 a, MSC	(85 - 115)	5.0	(0-30)	SW846 8021B
Toluene	133 a, MSC	(85 - 115)			SW846 8021B
	125 a, MSC	(85 - 115)	5.5	(0-30)	SW846 8021B
Xylenes (total)	135 a, MSC	(85 - 115)			SW846 8021B
	128 a, MSC	(85 - 115)	5.1	(0-30)	SW846 8021B
Methyl tert-butyl ether	134 a, MSC	(85 - 115)			SW846 8021B
	132 a, MSC	(85 - 115)	1.3	(0-30)	SW846 8021B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	103	(81 - 119)
	102	(81 - 119)
a, a, a-Trifluorotoluene (TFT)	101	(73 - 135)
	101	(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

General Chemistry

Client Lot #...: I4A300161

Matrix.....: WATER

Date Sampled...: 01/30/04 10:00 Date Received...: 01/30/04

PARAMETER	PERCENT RECOVERY		RPD		METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	BATCH #
Chloride	104	(85 - 106)	WO#: F8R5P1AF-MS/F8R5P1AG-MSD		MS Lot-Sample #:	U4A300153-001	
	98	(85 - 106)	2.5	(0-22)	MCAWW 300.0A	02/03/04	4035162
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

Lot No: I4A300161

RECEIVED BY: LT

COC NUMBER: _____

DATE/TIME RECEIVED: 1-30-04/0915

? QUOTE/PROFILE: 56072

UNPACKED DATE/TIME: 1-30-04/0940

CLIENT/PROJECT: Maxim Tech

SAMPLES LOGGED IN: _____ LOG-IN REVIEWED: _____

Number of Shipping Containers Received with Chain of Custody 1

LT (DU)

VOC AIR / FILTER SAMPLES YES SEE SECTIONS 1.0, 2.0, & 6.0

1.0 CONTAINERS EXAMINED UPON RECEIPT: 2

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: LT IR THERMOMETER #: P-5

The temperature of the container(s) is: _____ [acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]

<u>20</u>										
-----------	--	--	--	--	--	--	--	--	--	--

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: LT

Base samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

Cyanide samples checked _____ Sulfide samples appear _____

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
<u>Trip Blank</u>	<u>12mm, 11mm</u>

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 NO VOA trip blanks included: 2+40ml 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: CSB Date: 2-9-04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

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
1000 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

Form C-117 A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 5 Copies to
Appropriate District Office

PERMIT NO. H-24658

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner Maxim Technologies (Phillips Pipeline) Address 1703 W. Industrial Ave., Midland TX 79701

Lease or Facility Name NM I-1 ConocoPhillips Remediation Site Location Sec 9, 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 December 30, 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) Oil Spill Recovery Tank

VOLUME AND DESTINATION: Estimated Volume 90 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	ConocoPhillips, Inc.	Transporter	Key Energy Services
By	Greg W. Pope (Maxim Technologies) <i>[Signature]</i>	Address	418 S. Grimes, Hobbs, NM 88240
Title	Project Manager	Signature	
E-mail Address	gpope@maximusa.com FAX 432-686-8085	E-mail Address	
Date	December 29, 2003	Title	Date

OIL CONSERVATION DIVISION

Approved By Linda Williams Title Mgrt Anal. Date 12-29-03

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)

CERTIFICATE OF WASTE STATUS

EXEMPT WASTE MATERIAL

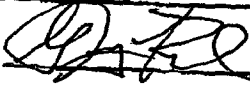
ORIGINATING LOCATION: CONOCO PHILLIPS NMI-1 REMEDIATION SITE

SOURCE: RECOVERED GROUNDWATER AND CRUDE OIL FROM REMEDIAL ACTW

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 1988 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 CONOCO PHILLIPS
concur with the status of the waste from the subject site.

Name GREG W. POPE
Title HYDROGEOLOGIST
Address MAXIM TECHNOLOGIES, INC.
1703 W. INDUSTRIAL, MIDLAND, TX
Signature 
Date 12/29/03