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REPORTS

DATE:

2002

MAXIM TECHNOLOGIES INC

10601 Lomas NE, Suite 106
Albuquerque, NM 87112
(505) 237-8440

August 26, 2002

Mr. Neal Goates
Conoco Inc.
600 North Dairy Ashford
Houston, TX 77079-1175

Fax received on May 7, 2003 wd

RE: Cooper Reed A Soil Investigation
Lea County, New Mexico
Maxim Project No. 2690018

Dear Neal:

This letter report discusses findings of soil boring and excavation work initiated by Maxim Technologies, Inc. (Maxim) at former Conoco Inc. (Conoco) site Reed A on March 12, 2002. The fieldwork performed followed the Maxim work plan dated March 7, 2001. This work plan was reviewed and approved by the New Mexico Oil and Conservation Department (OCD).

BACKGROUND

Former Conoco site Reed A is located in Section 24 of Township 20, South Range 36 East, Lea County, approximately 6 miles southwest of Monument, New Mexico (Figure 1). The site is situated on privately owned land showing visual indications of surficial staining from historic production operations. The site investigation was performed at the former tank battery area and adjacent depression area approximately 300 feet apart. Figure 1 is presented to illustrate the site layout and surrounding area. Within the natural depression area, a small pit (existing excavation) has been advanced and is holding water. It is approximately 15 feet long by 15 feet wide and 6 feet deep. It appeared to contain approximately one foot of water during the soil investigation site visit on March 12, 2002.

In May 2001 a Preliminary Exposure Pathway Assessment (PEPA) was conducted at the site. The PEPA indicated the closest residential water well is located 0.7 mile from the site. There are no perennial surface water bodies within the specified one-mile search radius. There are pipelines, oil-producing wellheads with pumpjacks, a surface waste facility, a residential home, an active tank battery, and underground utilities present within the search radius.

Maxim performed a soil investigation on site on March 12, 13, and 14, 2002. Eleven borings were advanced within the natural depression area and the former tank battery area. Fifteen excavation pits were advanced within the natural depression area. Figure 2 illustrates the site features, soil boring locations and excavation pit locations near the natural depression. Appendix A includes pictures of the soil boring and excavation activities. Soil samples were

collected from the borings at two-foot intervals using continuous split spoon sampling methods, and a sample was obtained from a bottom interval for laboratory analysis. The soil samples were analyzed by Severn Trent Laboratories, Inc. (STL) in Austin, Texas, for total petroleum hydrocarbons--gasoline range organics (TPH-GRO) and total petroleum hydrocarbons--diesel range organics (TPH-DRO) using EPA Method SW-846, 8015B; chloride, using EPA Method MCAWW 300.0A; and percent moisture using ASTM D 2216-90. A photo-ionization detector (PID) instrument was used to obtain field measurements of organic vapors in soil samples. Composite soil samples were obtained from selected excavations in the natural depression area and from the soil borings in the former tank battery area. The composite samples were analyzed using the Environmental Protection Agency (EPA) Method 1312, Soil Precipitation Leaching Procedure (SPLP).

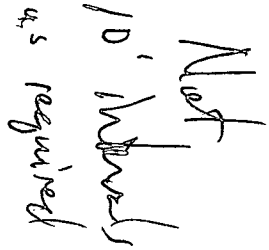
SOIL ASSESSMENTS

Soil Boring Activities and Results

Soil borings were advanced around the perimeter of the natural depression area and in the former tank battery area (Figures 1 and 2). The borings were drilled to average depths of 21 and 15 feet below ground surface (bgs). Soil samples obtained from split spoon sampling were split with half placed on ice and half retained for analysis in the field with a PID, per OCD guidelines. A PID reading of 100 ppm VOC or greater was assumed to indicate concentrations of benzene, toluene, ethylbenzene and total xylenes (BTEX) in excess of OCD-recommended guidelines and was substituted for this analysis during the investigation per OCD guidelines. If field PID readings indicated soil impacts greater than 100 parts per million (ppm) volatile organic compounds (VOCs), the borings were extended until PID readings were less than 100 ppm. The boring logs illustrating boring depths, PID readings, sample locations, and lithologic descriptions are attached as Appendix B.

A sample was collected from the bottom of each boring and submitted to STL for analysis. Table 1 presents the laboratory analytical data for the samples obtained during boring activities. The laboratory analytical report is attached as Appendix C. A composite sample from the former tank battery area was submitted for SPLP analysis for both volatile and semi-volatile organics using EPA Method 8260B to analyze for BTEX; and EPA Method 8015B to analyze for TPH-GRO and TPH-DRO. SPLP analysis was conducted in order to develop leaching potential data for the constituents of concern (COCs) at this site. Table 2 presents the laboratory analytical results of the SPLP analyses. The laboratory analytical report is attached as Appendix C.

Four borings were advanced surrounding the natural depression area (B-1, B-2, B-3, and B-4). These borings were drilled to a depth of 21 feet bgs, and samples were obtained from the 19- to 21-foot bgs interval for analysis. PID readings indicated levels of soil vapors at concentrations less than 100 ppm VOC consistently to 21 feet bgs in borings B-1 through B-4. No soil staining was observed. Laboratory analytical results revealed concentrations did not exceed the established OCD-recommended remediation action level for TPH-DRO and TPH-GRO, as



determined from guidance in *Guidelines for Remediation of Leaks, Spills and Releases, Oil Conservation Division, August 13, 1993*. Boring B-5 was advanced near the center of the natural depression area (Figure 1). PID readings indicated soil vapor concentrations above 100 ppm until approximately 45 feet bgs, and soil staining was observed to approximately 31 feet bgs. The laboratory results indicated the TPH concentration in the sample taken from B-5 at the 45- to 46-foot bgs interval did not exceed the OCD-recommended remediation action level. The B-5 boring was allowed to stand open for approximately two hours. Following this period, groundwater did not develop and the hold was plugged back to the surface with bentonite pellets.

Seven borings were installed in the former tank battery area. Three of these borings were drilled around the perimeter of the area (B-6, B-7, and B-8). See Figure 1 for boring locations. These borings were drilled to a depth of 15 feet bgs, and a soil sample from the 13- to 15-foot interval was obtained. Stained soil was not observed. All soil samples analyzed in the field with a PID indicated less than 100 ppm VOCs. The concentrations obtained from laboratory analysis of the 13- to 15-foot soil samples were below the OCD-recommended remediation action level for TPH.

Three borings were drilled within the footprint of the former tank battery area (B-9, B-10, and B-11). See Figure 1 for boring locations. These borings were drilled to a depth of 15 feet bgs, and sampled from 13 to 15 feet bgs, except B-10, which was drilled to a depth of 21 feet bgs and sampled from 15 to 17 feet bgs. No soil staining was observed. PID readings on field soil samples collected from boring B-9 from five to 15 feet bgs averaged 9.5 ppm VOCs, which is below ODC cleanup guidance for BTEX.

Boring B-10 was advanced to 21 feet because PID readings on field soil samples indicated VOC levels in excess of 100 ppm from 5 to 15 feet bgs (841 ppm VOCs average).

PID readings on field soil samples obtained from boring B-11 all registered below 100 ppm VOCs except the 12-foot bgs sample, which contained 117 ppm VOCs.

The laboratory analytical results revealed concentrations below the OCD-recommended remediation action level for TPH for sampling intervals from borings B-9 and B-11. The sample taken from B-10 revealed a TPH-DRO concentration of 250 milligrams per kilogram (mg/kg) and a TPH-GRO concentration of 4.0 mg/kg, which is above the OCD-recommended remediation action level for TPH.

A composite sample was obtained from samples representative of borings B-9, B-10, and B-11. The composite sample was skewed toward sampling intervals with relatively high PID readings and preferably located near the bottom of the boring. This sample was submitted for SPLP (EPA Method 1312) analysis. The analytical results indicate low potential for leaching of BTEX, chloride, and TPH into groundwater if a potential pathway exists.

B 9-10 High PID not near bottom

Soil Excavation Activities and Results

Fifteen pits were excavated in the area of the natural depression on the south side of the site. The pits were sited to develop data regarding soil volumes and types, and the nature and extent of impacts in the depression area. Upon arrival at the site, Maxim inspected the depression area and found water standing in the existing excavation near the center of the depression. The water had a sheen on the surface and the soil piles associated with this excavation were stained (see photo). Maxim was careful to locate excavations in a manner that would be protective of this site feature.

Excavations 1, 2, 3, 4, 5, 6, 7, 8, 10, and 15 were placed in a radius roughly 75 to 100 feet around the existing excavation holding water and were sited to determine impact depth near the outer edges of the depression (Figure 2).

Excavation Results

Excavation 1 was dug to approximately 7 feet bgs. Soil from the bottom of this excavation was sampled and field checked with the PID. The PID reading was 20.2 ppm VOCs. The following observations of the soil in the excavation were made:

- Surface to 1 foot bgs – loose, dry sand
- 1 to 2 feet bgs – dark stained soil, noticeable odor
- 2 to 7 feet bgs – clayey, caliche soil

Excavation 2 was dug to approximately 8 feet bgs. A PID reading taken on a soil sample collected from approximately 7 feet bgs read 23.1 ppm VOCs. The following observations were made about soil in the excavation:

- Surface to 3 feet bgs – loose, dry sand
- 3 to 4 feet bgs – dark stained soil, noticeable odor
- 4 to 8 feet bgs – moist dark sand

Excavation 3 was dug to approximately 7.5 feet bgs. A soil sample collected from 6 feet bgs and analyzed with the PID read 1.0 ppm VOCs. The following observations were made:

- Surface to 5.5 feet bgs – loose dry sand
- 5.5 to 7.5 feet bgs – clayey soil, no odor at depth

Excavation 4 was dug to approximately 13.5 feet bgs. Soil samples were collected from excavated material and analyzed in the field with the PID. From surface to approximately 5 feet bgs, the soil was dry loose sand. Below that depth, the following observations were made:

Sample Depth (feet bgs)	PID Reading (ppm VOCs)	Observations
5	729	Tight silty clay, strong odor
8	135	Tight silty clay, strong odor
10	463	Tight silty clay, strong odor
11	471	Tight silty clay, some odor

Excavation 4 was advanced deeper that the other excavations due to the fact that it is located over 115 feet west of the existing water-containing excavation and posed little risk to the "source" of the water.

Excavation 5 was dug to approximately 5 feet bgs. No odor was noticed. The following observations were made:

- Surface to 2 feet bgs – loose dry sand
- 2 to 5 feet bgs – hard, tight clay interspersed with caliche material

Excavation 6 was dug to approximately 4 feet bgs. No noticeable odor was noted. Soil in the excavation was described as:

- Surface to 2 feet bgs – loose dry sand
- 2 to 4 feet bgs – caliche

Excavation 7 was dug to approximately 5 feet bgs. Some odor was noted during excavation. A PID reading taken on soil sampled at 5 feet bgs indicated 20.8 ppm VOCs.

- Surface to 2 feet bgs – loose dry sand
- 2 to 4 feet bgs – stained soil
- 4 to 4.5 feet bgs – moist sand and clay, no staining
- 4.5 to 5 feet bgs - clay

Excavation 8 was dug to approximately 6 feet bgs. A PID reading on a soil sample collected from approximately 5 feet bgs was 29.8 ppm VOCs. The following observations were made:

- Surface to 5 feet bgs - loose, dry sand
- 5 to 6 feet bgs – black, stained soil

Excavation 10 was dug to approximately 9 feet bgs. The following observations were made:

- Surface to 6 feet bgs – loose dry sand
- 6 to 9 feet bgs – stained soil

Excavation 15 was dug to approximately 8 feet bgs. The following observations were made:

- Surface to 2.5 feet bgs – loose dry sand
- 2.5 to 8 feet bgs – dark stained soil

Excavations 1 through 8, 10, and 15 all exhibited a surficial layer of loose dry sand with thicknesses ranging from 1 to 5 feet. This material is probably the result of deposition onto the site by wind. Excavated sand showed no evidence of staining. Most of the excavations contained layers of relatively tight clay material at depth. PID readings on soil sampled from Excavation 4 indicated soil impacts from 5 to 11 feet bgs but no staining was noted. Excavations 7, 8, 10, and 15 all contained stained soil, with excavations 8, 10, and 15 terminating in stained soil.

Excavation 9 was installed in a narrow channel emanating from the east side of the site that appeared to be the only surface drainage) from the depression (Figure 2). This excavation was dug to approximately 6 feet bgs. It contained 0.5 foot of dry loose sand at the surface and 5.5 feet of dark stained soil. The excavation was terminated in dark stained soil (see photo).

Another group of excavations were installed on an average radius of approximately 50 feet around the existing excavation containing water. These excavations (11, 12, 13, and 14) were installed to develop data about impacts closer to the center of the depression and learn more about the nature of groundwater conditions and recharge at the site.

Excavation 11 was installed to a total depth of 8 feet bgs. Observations included the following:

- Surface to 1 foot bgs – loose dry sand
- 1 to 8 feet bgs – dark stained soil

The excavation terminated in dark stained soil. No excessive odors were noted. Approximately one hour after the excavation was completed, a dark-colored, viscous liquid was noted emitting from the east wall of the hole about 2.5 to 3 feet bgs.

Excavation 12 was installed to a total depth of 8 feet bgs and contained dark, stained soil from surface to termination of the hole. No excessive odors were noted. Approximately one hour after completion of work in the hole, a dark-colored, viscous liquid was noted emitting from the south wall of the hole about 3 feet bgs.

Excavation 13 was installed to a total depth of 8 feet bgs and contained dark, stained soil from surface to termination depth. No excessive odors were noted. Approximately 1 hour after completion of digging, a dark-colored, viscous fluid was noted emitting from the south wall of the hole about 2 feet bgs.

Excavation 14 was installed to a total depth of approximately 8 feet bgs and contained dark, stained soil from surface to termination depth. No odors were noted.

After completion of the excavations, a final inspection was made of all holes, noting any changes and specifically looking for any sign of seepage of groundwater. Soil samples were gathered from each of the soil piles. The samples were skewed to darker stained soil (e.g., if an excavation contained particularly dark stained soil, the darker materials were gathered as representative of that excavation). The samples were composited and placed on ice for SPLP analysis by the laboratory. Some of the holes had partially caved but none showed signs of liquid except for the holes mentioned previously with fluids emitting from the walls. The excavations were backfilled for safety and access reasons, except for Excavations 2, 10, 11, and 13. These holes were fenced to keep livestock out and maintained overnight to monitor for inflow of groundwater. These holes were chosen because:

- They bracketed the original water-containing excavation roughly on the northeast, southeast, northwest, and southwest.
- Excavations 11 and 13 were within approximately 50 feet of the water-containing excavation.
- Excavation 2 was maintained specifically because it was noted to contain particularly moist sand near the bottom of the hole.

The holes were inspected the following morning for evidence of groundwater seepage. No groundwater was noted, and there was no evidence of seepage in any of the holes. The fencing was removed and the holes were backfilled.

CONCLUSIONS

The laboratory results from the soil boring investigation indicate only one boring (B-10) contained levels of TPH exceeding the OCD-recommended remediation action level. The SPLP analyses of the composite samples from both areas indicate a low potential for leaching of COCs into groundwater. Groundwater was not encountered during drilling or excavation, so the water table is assumed to be below these depths in each respective boring or excavation location. The soil encountered during the investigation can be described as clayey sand to sandy clay with caliche occurring at various intervals below 13 feet bgs (Appendix B). Most of the surficial soil material is comprised of dry loose sand.

If you have any questions regarding this communication, please contact Clyde Yancey or Tom Tangen at 505-237-8440.

Sincerely,

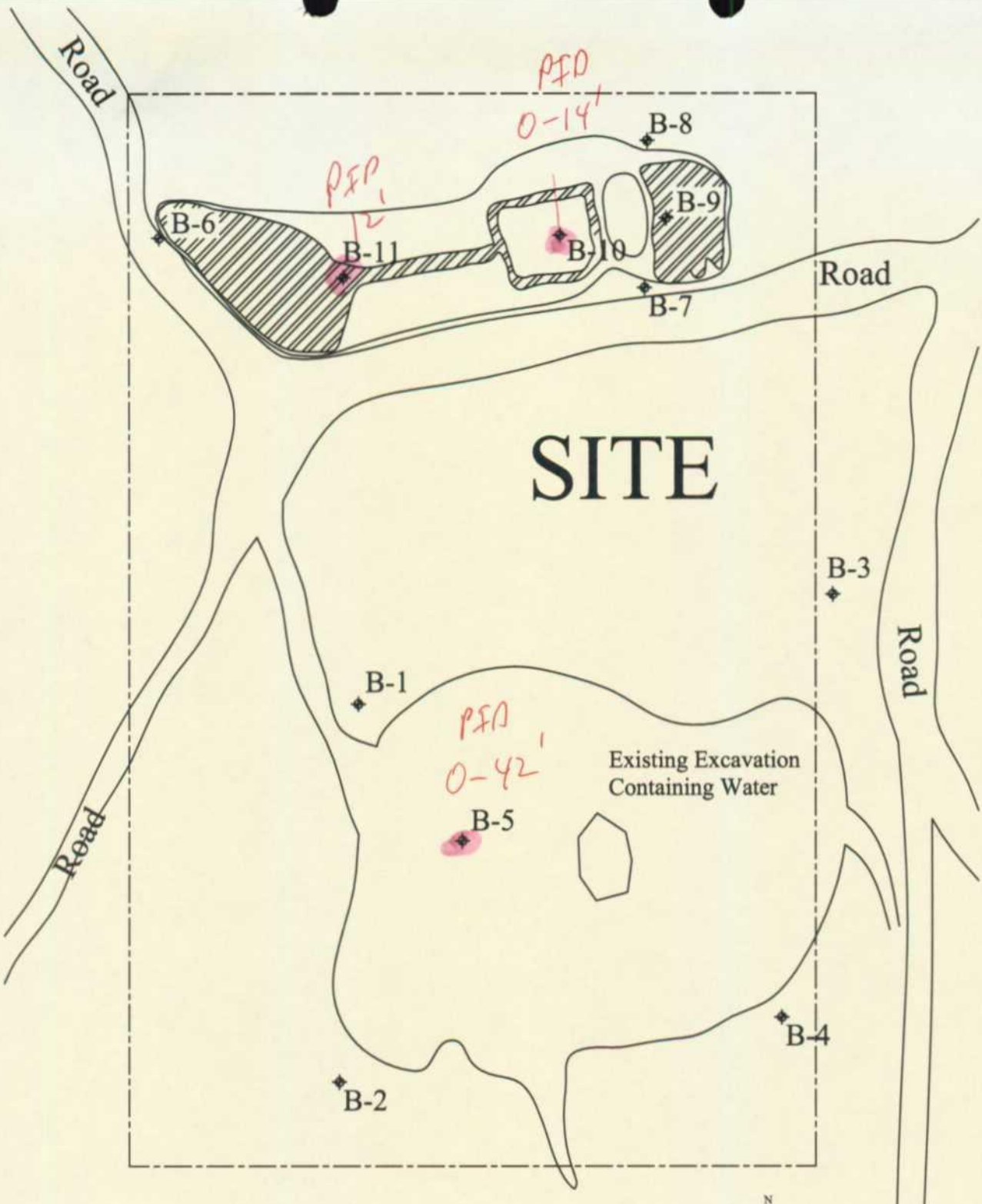
MAXIM TECHNOLOGIES, INC.

Tom Tangen
Environmental Engineer

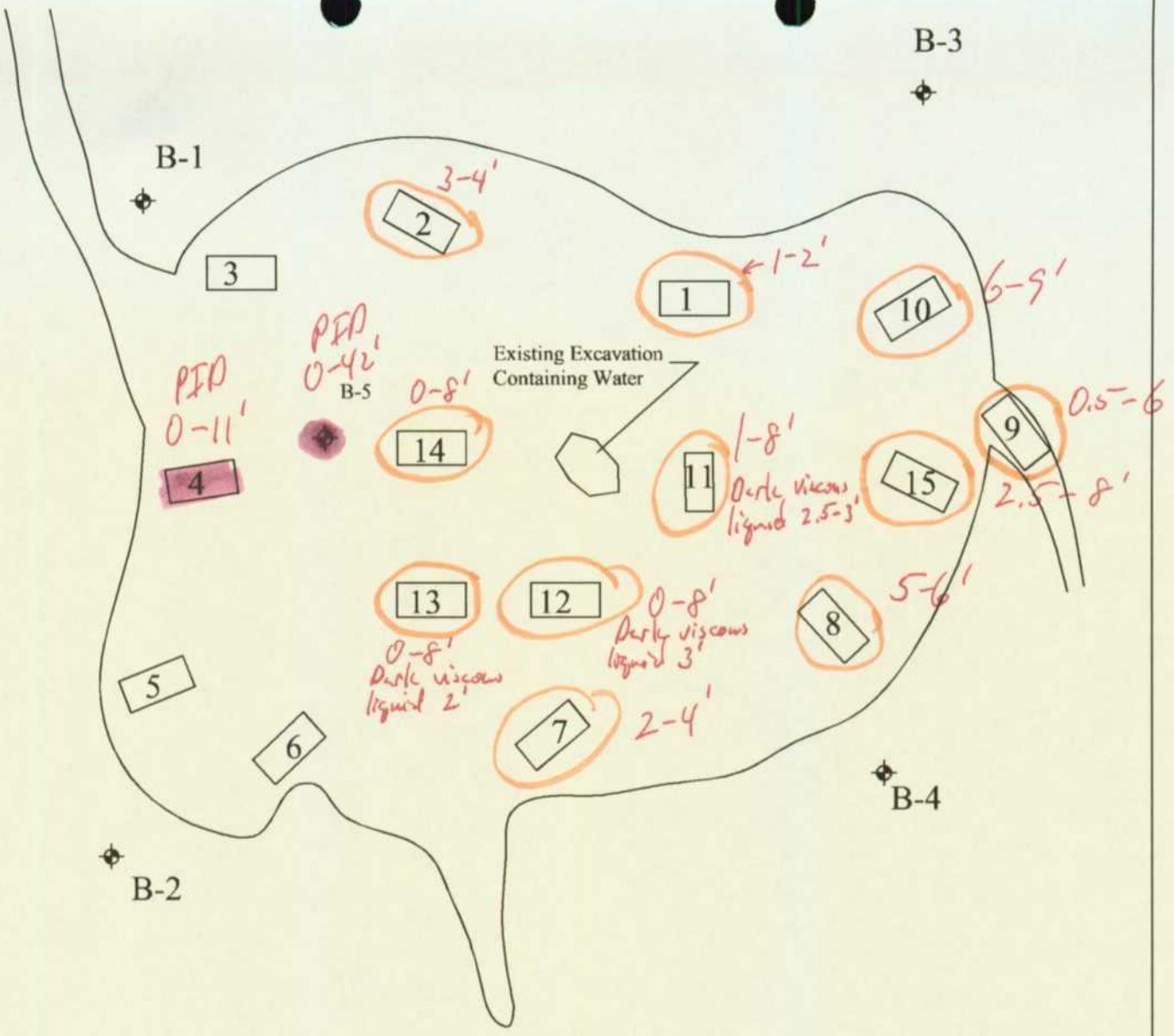
Kelly Henderson
Staff Geologist

Enclosures

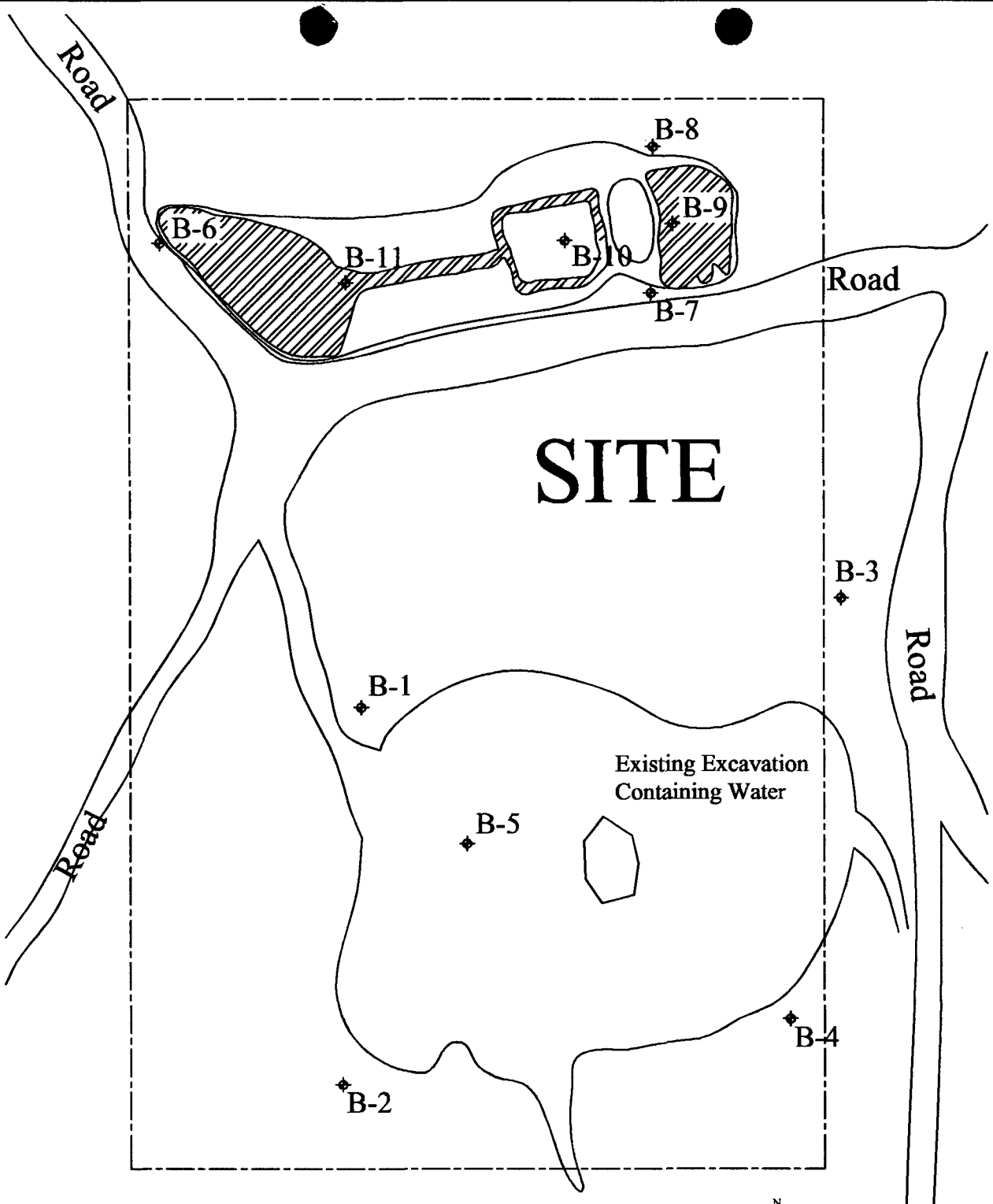
FIGURES



TARGET PROPERTY:	Former Tank Battery - Reed "A"	SITE MAP	MAXIM TECHNOLOGIES INC
LEGAL DESCRIPTION			Project No. 2690018.100
CITY/STATE/ZIP:	Lea County, New Mexico		
LAT/LONG:	N32.55510/W103.31170	Drawing: 2690018F1.DWG	FIGURE 1



TARGET PROPERTY:	Former Tank Battery - Reed "A"	TEST PIT LOCATION MAP NATURAL DEPRESSION AREA	MAXIM TECHNOLOGIES INC Project No. 2690018.100
LEGAL DESCRIPTION CITY/STATE/ZIP:	Lea County, New Mexico		
LAT/LONG:	N32.55510/W103.31170	Drawing: 2690018F2.DWG	FIGURE 2

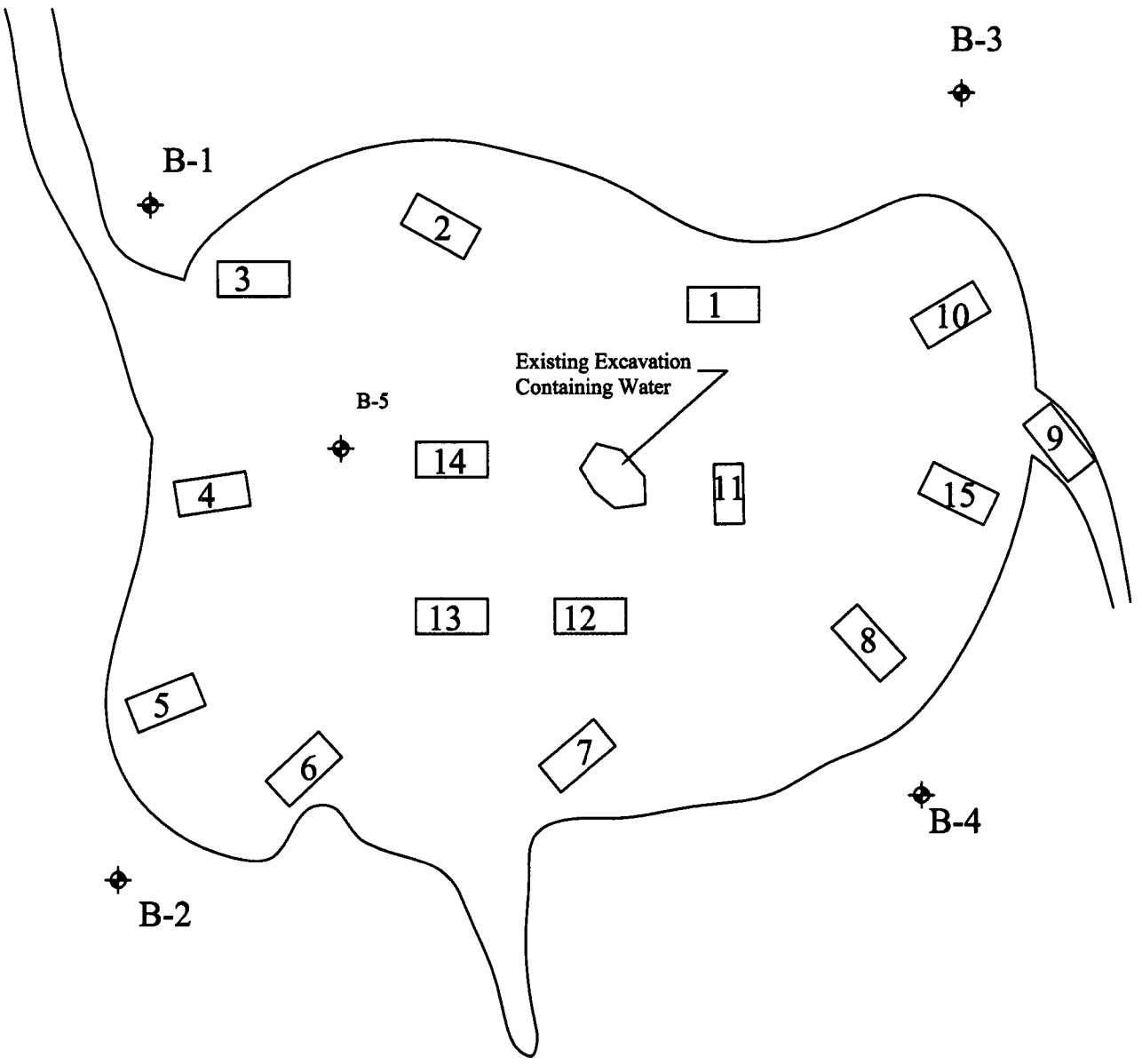


NOTES:

Target Property

SOURCE: USGS Topographical Map - Monument South, NM

TARGET PROPERTY:	Former Tank Battery - Reed "A"	SITE MAP	MAXIM TECHNOLOGIES INC
LEGAL DESCRIPTION			Project No. 2690018.100
CITY/STATE/ZIP:	Lea County, New Mexico		
LAT/LONG:	N32.55510/W103.31170	Drawing: 2690018F1.DWG	FIGURE 1



NOTES:

TEST PIT

BORING LOCATION

N

Not To Scale

Locations Are Approximate

SOURCE: USGS Topographical Map - Monument South, NM

TARGET PROPERTY:	Former Tank Battery - Reed "A"	TEST PIT LOCATION MAP NATURAL DEPRESSION AREA	MAXIM TECHNOLOGIES INC Project No. 2690018.100
LEGAL DESCRIPTION			
CITY/STATE/ZIP:	Lea County, New Mexico		
LAT/LONG:	N32.55510/W103.31170	Drawing: 2690018F2.DWG	FIGURE 2

TABLES

Table 1. Conoco Reed A Site Investigation Soil Analytical Results

Sample Location	Date Sampled	Sample Depth (feet bgs)	Results Reported in Parts Per Million (mg/kg)				
			EPA Method MCAWW 300.0A	EPA Method SW-846, 8015B			ASTM D 2216-90
			Chloride	TPH-GRO	TPH-DRO	Total TPH	% Moisture
B-1	03/12/02	19-21	144	<0.089	<1.7	<LDL	17.3
B-2	03/12/02	19-21	146	<0.092	1.8	1.8	22.4
B-3	03/12/02	19-21	<10	<0.098	<1.7	<LDL	15.9
B-4	03/12/02	19-21	31.5	<0.094	3.1	3.1	13.7
B-5	03/13/02	45-46	89.2	<0.095	3.2	3.2	6.0
B-6	03/13/02	13-15	<10	<0.098	1.8	1.8	8.5
B-7	03/13/02	13-15	<10	<0.090	2.5	2.5	8.7
B-8	03/13/02	13-15	<10	<0.094	2.2	2.2	20.3
B-9	03/13/02	13-15	<10	<0.094	2.4	2.4	14.5
B-10	03/13/02	15-17	<10	4.0	250	254	16.7
B-11	03/13/02	13-15	<10	<0.094	2.5	2.5	13.2
Applicable OCD Cleanup Levels			NE	NE	NE	100	NA

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
<LDL = Less than laboratory detection limits
NE = Not established by ODC
NA = Not Applicable
bgs = Below land surface
OCD = Oil and Conservation Department
EPA = Environmental Protection Agency
B = Boring

Table 2. Conoco Reed A Site Investigation - SPLP Soil Analyses

Sample ID	Date Sampled	Composite Collection Location	Results Reported in Parts Per Million (mg/L)								
			EPA Method MCAWW 300.0A	EPA Method SW-846, 8260B					EPA Method SW-846, 8015B		
			Chloride	Benzene	Ethylbenzene	Toluene	Xylenes	Total BTEX	TPH-GRO	TPH-DRO	Total TPH
SPLP 1	03/12/02	Depression Area	8.9	<0.0010	<0.0010	<0.0010	<0.0020	<LDL	<0.100	1.1	1.1
SPLP 2	03/13/02	Former Tank Battery Area	<1.0	<0.0010	<0.0010	<0.0010	<0.0020	<LDL	<0.100	0.31	0.31
Applicable OCD Cleanup Levels			NE	10	NE	NE	NE	50	NE	NE	100

SPLP = Synthetic precipitation leaching procedure
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
BTEX = Benzene, toluene, ethylbenzene, and xylenes
<LDL = Less than laboratory detection limits
NE = Not established by OCD
OCD = Oil and Conservation Department
EPA = Environmental Protection Agency
SPLP 1 = Composite sample obtained from excavations within natural depression area
SPLP 2 = Composite sample obtained from borings located in former tank battery area

APPENDIX A

Site Photographs

Photo 1. Drill rig set up on B-1. View is to the southeast.

Photo 2. Drill rig set up on B-2. View is to the northeast.

Photo 3. Drill rig setting up on B-3. View is to the southeast.

Photo 4. Drill Rig setting up on B-5. View is to the southeast.

Photo 5. B-5 Location with pit area located in background to the southeast.

Photo 6. Drill rig setting up on B-6. View is to the east.

Photo 7. Drilling B-7. View is to the northeast.

Photo 8. Drilling B-9. View is to the east.

Photo 9. Existing excavation soil piles showing dark staining.

Photo 10. Excavation #7 – Stained soil evident at about 2 feet below ground surface in right side wall.

Photo 11. Excavation #9 – Stained soil in side wall with dark staining at depth.

Photo 12. Excavation #15 – Loose, dry sand at surface, underlain by stained soil at approximately 2.5 feet below ground surface.

APPENDIX B

Boring Logs

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/12/02
DATE ABANDONED: 3/12/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-1
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry, trace organics	SM	Hand Auger		1030			0
5.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry, trace organics	SM	Pushed		1040	50	3.0	5
		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry, trace organics	SM	Pushed		1045	90	5.1	
10.0		SAND, clayey, silty, medium dense, very fine grained, light gray to orange	SC	Pushed		1050	50	9.1	10
		CLAY, sandy, silty, medium stiff, light gray to orange	CL	Pushed		1053	50	9.0	
		CLAY, sandy, silty, medium stiff, gray to orange, trace caliche	CL	Pushed		1105	70	1.3	
15.0		CLAY, sandy, silty, medium stiff, gray to orange, trace caliche	CL	Pushed		1115	80	2.1	15
		CLAY, sandy, silty, medium stiff, gray to orange, trace caliche	CL	Pushed		1125	80	0.7	
20.0		CLAY, sandy, silty, medium stiff, gray to orange, trace caliche	CL	Pushed	X	1128	100	1.0	20

Boring Terminated at 21' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-1

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/12/02
DATE ABANDONED: 3/12/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-2
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Hand Auger		1300			0
5.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Pushed		1305	50	0.5	5
		SAND, silty, clayey, very loose, very fine grained, orange to orangish-red	SM	Pushed		1308	50	1.1	
10.0		SAND, clayey, silty, medium dense, very fine grained, orange to gray	SC	Pushed		1310	50	2.1	10
		SAND, clayey, silty, medium dense, very fine grained, orange to gray	SC	Pushed		1312	70	1.3	
		CLAY, sandy, silty, medium stiff, orange, trace caliche	CL	Pushed		1315	80	0.5	
15.0		SAND, silty, clayey, loose, very fined grained, orange	SM	Pushed		1320	80	1.5	15
		CLAY, sandy, silty, medium stiff, yellowish-orange to gray, some caliche	CL	Pushed		1325	80	1.0	
20.0		CLAY, sandy, silty, stiff, orange and gray, mottled	CL	Pushed	X	1330	15	0.8	20

Boring Terminated at 21' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-2

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/12/02
DATE ABANDONED: 3/12/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-3
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Hand Auger		1412			0
5.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Pushed		1425	50	0.6	5
		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, trace caliche	SM	Pushed		1430	50	0.7	
10.0		SAND, clayey, silty, very loose, very fine grained, light brown to orange	SC	Pushed		1435	100	0.6	10
		CLAY, sandy, silty, stiff, orange to yellowish orange	CL	Pushed		1440	100	1.0	
		CLAY, sandy, silty, stiff, light brown to orange, some caliche	CL	Pushed		1445	100	0.6	
15.0		CALICHE, white, hard, some clay and sand, silty, gray to light yellow		Pushed		1450	100	0.5	15
		CLAY, sandy, silty, very stiff, gray to orange, some caliche, white, hard	CL	Pushed		1454	100	0.6	
20.0		CLAY, sandy, silty, stiff, orange, some very loose sand, light orange	CL	Pushed	X	1457	100	0.5	20

Boring Terminated at 21' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-3

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/12/02
DATE ABANDONED: 3/12/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-4
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Hand Auger		1600			0
5.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Pushed		1610	50	0.7	5
		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, dry	SM	Pushed		1615	50	2.0	
10.0		SAND, clayey, silty, very loose to loose, very fine grained, light brown to orange	SC	Pushed		1620	80	0.7	10
		CLAY, sandy, silty, stiff, light gray and orange, mottled, some caliche	CL	Pushed		1622	90	0.6	
		CALICHE, white, hard, some clay and sand, silty, gray to light yellow		Pushed		1625	90	0.7	
15.0		CALICHE, white, hard, some clay and sand, silty, gray to light yellow		Pushed		1628	90	0.6	15
		CALICHE, white, hard, some clay, sandy, sitly, very stiff, gray and orange, mottled	CL	Pushed		1634	50	1.0	
20.0		CLAY, sandy, silty, very stiff, gray and orange, mottled	CL	Pushed	X	1637	100	0.6	20

Boring Terminated at 21' bgs

2690018	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	B-4

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-5
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, moist, trace organics	SM	Hand Auger		905		153	0
5.0		SAND, silty, clayey, very loose, dark gray to black, some orange, petroleum odor, moist	SM	Pushed		915	100	932	5
		SAND, clayey, silty, loose, dark gray to light gray and reddish-orange, mottled clay, petroleum odor, moist	SC	Pushed		920	100	900	
10.0		CLAY, sandy, silty, medium stiff, light gray and reddish-orange, mottled, petroleum odor, moist	CL	Pushed		924	100	1248	10
		CLAY, sandy, silty, medium stiff, light gray and reddish-orange, mottled, petroleum odor, moist	CL	Pushed		927	100	1119	
		CLAU, sandy, silty, soft, dark brown to dark gray, petroleum odor, moist	CL	Pushed		930	100	1190	
15.0		CLAY, sandy, silty, soft, dark brown to gray, petroleum odor, moist	CL	Pushed		935	100	1232	15
		CLAY, sandy, silty, soft, dark brown to gray and orange, mottled, petroleum odor, moist	CL	Pushed		940	100	1602	
20.0		CLAY, sandy, silty, soft, dark reddish-brown to dark gray, petroleum odor, moist, some caliche	CL	Pushed		943	100	1719	20
		SAND, clayey, silty, loose, dark orangish-brown, petroleum odor, moist, trace gravel sized rock fragments	SC	Pushed		955	100	1814	
		SAND, clayey, silty, loose, dark orangish-brown, petroleum odor, moist, trace gravel sized rock fragments and caliche	SC	Pushed		950	100	1885	

Boring Terminated at 46' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-5

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-5
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
25.0			SC	Pushed		959	100	1685	25
		SAND, clayey, silty, loose, dark orangish-brown, petroleum odor, moist, trace gravel sized rock fragments and caliche	SC	Pushed		1005	100	1728	
		SAND, clayey, silty, loose, dark orangish-brown, petroleum odor, moist, trace gravel sized rock fragments and caliche	SC	Pushed		1010	100	1777	
30.0		SAND, clayey, silty, loose, dark orangish-brown, petroleum odor, moist, trace gravel sized rock fragments	SC	Pushed		1013	100	2031	30
		SAND, clayey, silty, loose, dark brown to light brown, petroleum odor, dry, 50% caliche, white, hard	SC	Pushed		1019	20	1398	
		SAND, clayey, silty, very loose, very fine, dark brown to light brown, petroleum odor, dry, 50% caliche, white, hard	SC	Pushed		1025	20	1883	
35.0		SAND, clayey, silty, very loose, very fine, light brown, petroleum odor, damp, trace pebble sized rock fragments	SC	Pushed		1037	100	2669	35
		SAND, clayey, silty, very loose, very fine, light orange, petroleum odor, damp, trace pebble sized rock fragments	SC	Pushed		1050	15	455	
40.0		SAND, clayey, silty, very loose, very fine, light orange, petroleum odor, damp, trace pebble sized rock fragments	SC	Pushed		1055	10	286	40
		SAND, clayey, silty, very loose, very fine, light orange, petroleum odor, moist, trace pebble sized rock fragments	SC	Shovel Sample		1100		168	
		SAND, clayey, silty, very loose, very fine, light orange, no odor, moist, trace pebble sized rock fragments	SC	Shovel Sample		1110		12.1	
45.0		SAND, clayey, silty, very loose, very fine, light orange, no odor, moist, trace pebble sized rock fragments	SC	Pushed (Jam	X	1125	100	7.7	45

Boring Terminated at 46' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-5

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-6
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, yellowish-orange, very loose, very fine grained	SM	Hand Auger		1245			0
5.0		CLAY, sandy, silty, yellowish-orange to light brown, very soft, moist	CL	Pushed		1305	100	4.0	5
		CLAY, sandy, silty, soft, light gray and orage, mottled, moist	CL	Pushed		1310	100	2.3	
10.0		CLAY, sandy, silty, medium stiff, light gray and orage, mottled, moist	CL	Pushed		1313	100	1.2	10
		CLAY, sandy, silty, stiff, light gray and yellowish-orange, mottled, moist, trace organics	CL	Pushed		1315	100	1.8	
15.0		CLAY, sandy, silty, stiff, light gray and yellowish-orange, mottled, moist, trace organics, some very loose sand	CL	Pushed	X	1320	100	1.3	15

Boring Terminated at 15' bgs

2690018	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	B-6

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-7
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange, trace organics, dry	SM	Hand Auger		1335			0
5.0		SAND, clayey, silty, very loose, very fine grained, yellowish-orange to light gray	SC	Pushed		1355	100	1.0	5
		SAND, clayey, silty, loose, very fine grained, yellowish-orange to light gray	SC	Pushed		1358	100	0	
10.0		SAND, clayey, silty, very loose, very fine grained, brownish-orange	SC	Pushed		1400	100	0.8	10
		CLAY, sandy, silty, soft, brownish-orange	CL	Pushed		1403	100	0.9	
15.0		CLAY, sandy, silty, soft, brownish-orange	CL	Pushed	X	1405	100	0.1	15

Boring Terminated at 15' bgs

2690018	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	B-7

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-8
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, clayey, silty, very loose, very fine grained, yellowish-orange, dry	SC	Hand Auger		1409			0
5.0		CLAY, sandy, silty, soft, orange and light gray, mottled	CL	Pushed		1425	80	8.4	5
		CLAY, sandy, silty, stiff, orange and light gray, mottled	CL	Pushed		1430	80	20.2	
10.0		CLAY, sandy, silty, stiff, orange and light gray, mottled, trace caliche	CL	Pushed		1435	90	12.3	10
		CLAY, sandy, silty, stiff, light gray and some orange, mottled	CL	Pushed		1440	100	4.0	
15.0		CLAY, sandy, silty, stiff, light gray and some orange, mottled	CL	Pushed	X	1443	80	1.4	15

Boring Terminated at 15' bgs

2690018 | MAXIM TECHNOLOGIES INC® | EXPLORATORY BORING LOG | B-8

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-9
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, very loose, very fine grained, yellowish-orange	SM	Hand Auger		1455			0
5.0		SAND, clayey, silty, very loose, very fine grained, light gray and orange, mottled, petroleum odor, damp	SC	Pushed		1505	100	23.6	5
		SAND, clayey, silty, very loose, light gray to dark gray and orange, petroleum odor, moist	SC	Pushed		1507	100	11.2	
10.0		CLAY, sandy, silty, medium stiff, light gray and orange, mottled, no odor, moist	CL	Pushed		1510	100	2.6	10
		CLAY, sandy, silty, medium stiff, light gray and orange, mottled, no odor, moist	CL	Pushed		1513	100	4.7	
15.0		CLAY, sandy, silty, medium stiff, light gray and orange, mottled, no odor, moist	CL	Pushed	X	1515	100	5.2	15

Boring Terminated at 15' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-9

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-10
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, clayey, silty, very loose, very fine grained, yellowish-orange, dry	SC	Hand Auger		1545			0
5.0		SAND, clayey, silty, very loose, very fine grained, yellowish-orange to dark gray at base, dry	SC	Pushed		1550	50	808	5
		SAND, clayey, silty, very loose, very fine grained, dark gray and orange, petroleum odor, moist	SC	Pushed		1553	70	1703	
10.0		CLAY, sandy, silty, medium stiff, dark gray, some light orange, product odor, moist	CL	Pushed		1600	100	554	10
		CLAY, sandy, silty, soft, dark greenish-gray, some orange and white, mottled, petroleum odor, moist	CL	Pushed		1603	100	1027	
		CLAY, sandy, silty, soft, dark greenish-gray, some orange and white, mottled, petroleum odor, moist	CL	Pushed		1605	100	113	
15.0		CLAY, sandy, silty, stiff, greenish-gray, yellowish-orange, and white, mottled, slight petroleum odor, moist	CL	Pushed	X	1610	100	35.2	15
		CLAY, sandy, silty, stiff, greenish-gray, yellowish-orange, and white, mottled, slight petroleum odor, moist	CL	Pushed		1615	100	9.8	
20.0		CLAY, sandy, silty, stiff, yellowish-orange, white, and greenish-gray, mottled, slight petroleum odor, moist	CL	Pushed		1630	100	19.3	20

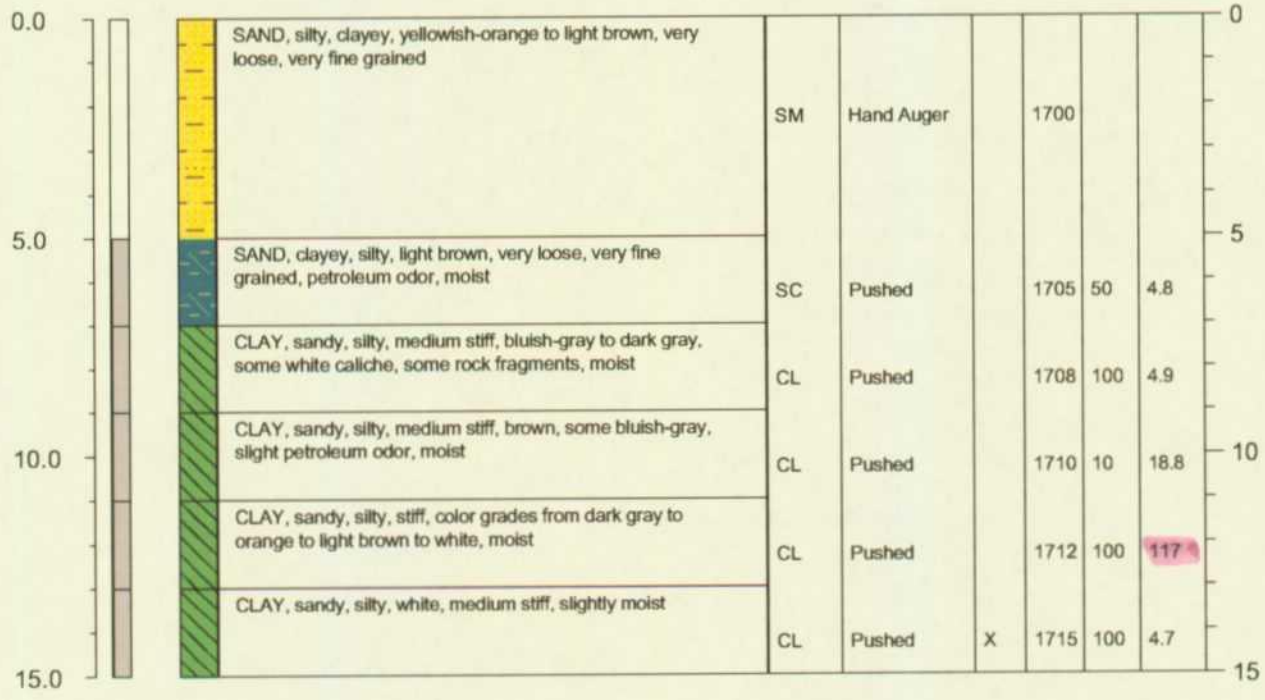
Boring Terminated at 21' bgs

2690018	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	B-10

PROJECT NAME: Maxim #2690018
LOCATION: Reed A, Lea County, New Mexico

DRILLED BY: Scarborough Drilling
DATE HOLE DRILLED: 3/13/02
DATE ABANDONED: 3/13/02
REMARKS: bgs = below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable

SOIL VAPOR BORING NO. B-11
FIELD LOGGED BY: K.Henderson
GROUNDWATER LEVEL (bgs): Not Encountered (ft)
DRILL TYPE: Air Rotary
Ford Midway 1300
BORE HOLE DIAMETER: 5 (in)



DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		SAND, silty, clayey, yellowish-orange to light brown, very loose, very fine grained	SM	Hand Auger		1700			0
5.0		SAND, clayey, silty, light brown, very loose, very fine grained, petroleum odor, moist	SC	Pushed		1705	50	4.8	5
		CLAY, sandy, silty, medium stiff, bluish-gray to dark gray, some white caliche, some rock fragments, moist	CL	Pushed		1708	100	4.9	
10.0		CLAY, sandy, silty, medium stiff, brown, some bluish-gray, slight petroleum odor, moist	CL	Pushed		1710	10	18.8	10
		CLAY, sandy, silty, stiff, color grades from dark gray to orange to light brown to white, moist	CL	Pushed		1712	100	117	
15.0		CLAY, sandy, silty, white, medium stiff, slightly moist	CL	Pushed	X	1715	100	4.7	15

Boring Terminated at 15' bgs

2690018	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	B-11

APPENDIX C

Analytical Reports

Certificate of Analysis

STL Austin
14046 Summit Drive
Austin, Texas 78728

Tel: 512 244 0855
Fax: 512 244 0160
www.stl-inc.com

SEVERN TRENT SERVICES
STL Austin

ANALYTICAL REPORT

PROJECT NO. REED A/MONUMENT

EP01002 Reed A Monument, NM

Lot #: I2C150119

Tom Tangen

Maxim Technologies
10601 Lomas NE Ste 106
Albuquerque, NM 87112

SEVERN TRENT LABORATORIES, INC.

Carla M. Butler
Project Manager

March 27, 2002

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

STL Austin is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

I2C150119

Samples received in good condition within acceptable cooler temperature.

Surrogate recovery was outside control limits due to co-elution for the GRO analysis of sample 010.

EXECUTIVE SUMMARY - Detection Highlights

I2C150119

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B-1 (19-21) 03/12/02 11:28 001				
Chloride	144	50.0	mg/kg	MCAWW 300.0A
Percent Moisture	17.3	0.50	%	ASTM D 2216-90
B-2 (19-21) 03/12/02 13:30 002				
Diesel Range Organics	1800	1700	ug/kg	SW846 8015B
Chloride	146	50.0	mg/kg	MCAWW 300.0A
Percent Moisture	22.4	0.50	%	ASTM D 2216-90
B-3 (19-21) 03/12/02 14:57 003				
Percent Moisture	15.9	0.50	%	ASTM D 2216-90
B-4 (19-21) 03/12/02 16:37 004				
Diesel Range Organics	3100	1700	ug/kg	SW846 8015B
Chloride	31.5	10.0	mg/kg	MCAWW 300.0A
Percent Moisture	13.7	0.50	%	ASTM D 2216-90
B-5 (45-46) 03/13/02 11:25 005				
Diesel Range Organics	3200	1700	ug/kg	SW846 8015B
Chloride	89.2	10.0	mg/kg	MCAWW 300.0A
Percent Moisture	6.0	0.50	%	ASTM D 2216-90
B-6 (13-15) 03/13/02 13:20 006				
Diesel Range Organics	1800	1700	ug/kg	SW846 8015B
Percent Moisture	8.5	0.50	%	ASTM D 2216-90
B-7 (13-15) 03/13/02 14:05 007				
Diesel Range Organics	2500	1700	ug/kg	SW846 8015B
Percent Moisture	8.7	0.50	%	ASTM D 2216-90
B-8 (13-15) 03/13/02 14:43 008				
Diesel Range Organics	2200	1700	ug/kg	SW846 8015B
Percent Moisture	20.3	0.50	%	ASTM D 2216-90

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I2C150119

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B-9 (13-15) 03/13/02 15:15 009				
Diesel Range Organics	2400	1700	ug/kg	SW846 8015B
Percent Moisture	14.5	0.50	%	ASTM D 2216-90
B-10 (15-17) 03/13/02 16:10 010				
Diesel Range Organics	250000	1700	ug/kg	SW846 8015B
Gasoline Range Organics	4000	92	ug/kg	SW846 8015B
Percent Moisture	16.7	0.50	%	ASTM D 2216-90
B-11 (13-15) 03/13/02 17:15 011				
Diesel Range Organics	2500	1700	ug/kg	SW846 8015B
Percent Moisture	13.2	0.50	%	ASTM D 2216-90

ANALYTICAL METHODS SUMMARY

I2C150119

PARAMETER	ANALYTICAL METHOD
Chloride	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015B
Method for Determination of Water Content of Soil	ASTM D 2216-90
Volatile Petroleum Hydrocarbons	SW846 8015B

References:

ASTM Annual Book Of ASTM Standards.

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

I2C150119

ANALYTICAL METHOD	ANALYST	ANALYST ID
ASTM D 2216-90	David A. Tocher	800002
MCAWW 300.0A	Cynthia A. Anderson	034090
SW846 8015B	Ellen Grett	014902
SW846 8015B	Mark Shafer	001952

References:

ASTM Annual Book Of ASTM Standards.

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

I2C150119

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EWFDP	001	B-1 (19-21)	03/12/02	11:28
EWFDR	002	B-2 (19-21)	03/12/02	13:30
EWFDT	003	B-3 (19-21)	03/12/02	14:57
EWFDV	004	B-4 (19-21)	03/12/02	16:37
EWFDX	005	B-5 (45-46)	03/13/02	11:25
EWFD0	006	B-6 (13-15)	03/13/02	13:20
EWFD3	007	B-7 (13-15)	03/13/02	14:05
EWFD4	008	B-8 (13-15)	03/13/02	14:43
EWFD5	009	B-9 (13-15)	03/13/02	15:15
EWFD6	010	B-10 (15-17)	03/13/02	16:10
EWFD8	011	B-11 (13-15)	03/13/02	17:15

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

I2C150119

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079392	2079200
002	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079392	2079200
003	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079392	2079200
004	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229
005	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229
006	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229
007	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229
008	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229
009	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

I2C150119

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
009	SOLID	ASTM D 2216-90		2079473	2079229
010	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229
011	SOLID	MCAWW 300.0A		2079127	2079021
	SOLID	SW846 8015B		2080379	2080170
	SOLID	SW846 8015B		2081276	2081145
	SOLID	ASTM D 2216-90		2079473	2079229

CONOCO INC.

Client Sample ID: B-1 (19-21)

GC Volatiles

Lot-Sample #...: I2C150119-001	**Work Order #...:** EWFDP1AA		**Matrix.....:** SOLID
Date Sampled...: 03/12/02 11:28	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/21/02		
Prep Batch #...: 2081276			
Dilution Factor: 0.89			
% Moisture.....: 17	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	89	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	65	(14 - 165)

CONOCO INC.

Client Sample ID: B-1 (19-21)

GC Semivolatiles

Lot-Sample #...: I2C150119-001	**Work Order #...:** EWFDP1AC	**Matrix.....:** SOLID	
Date Sampled...: 03/12/02 11:28	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 17	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	ND	1700	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	98	(40 - 144)
Dotriacontane	99	(42 - 159)

CONOCO INC.

Client Sample ID: B-1 (19-21)

General Chemistry

Lot-Sample #...: I2C150119-001 Work Order #...: EWFDP Matrix.....: SOLID
Date Sampled...: 03/12/02 11:28 Date Received..: 03/15/02
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	144	50.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
	Dilution Factor: 5					
Percent Moisture	17.3	0.50	%	ASTM D 2216-90	03/19-03/20/02	2079392
	Dilution Factor: 1					

CONOCO INC.

Client Sample ID: B-2 (19-21)

GC Volatiles

Lot-Sample #...: I2C150119-002 **Work Order #...:** EWFDR1AA **Matrix.....:** SOLID
Date Sampled...: 03/12/02 13:30 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/21/02
Prep Batch #...: 2081276
Dilution Factor: 0.92
% Moisture.....: 22 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	92	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	62	(14 - 165)

CONOCO INC.

Client Sample ID: B-2 (19-21)

GC Semivolatiles

Lot-Sample #...: I2C150119-002	**Work Order #...:** EWFDR1AC		**Matrix.....:** SOLID
Date Sampled...: 03/12/02 13:30	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 22	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**1800**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	108	(40 - 144)
Dotriacontane	111	(42 - 159)

CONOCO INC.

Client Sample ID: B-2 (19-21)

General Chemistry

Lot-Sample #...: I2C150119-002 Work Order #...: EWFDR Matrix.....: SOLID
Date Sampled...: 03/12/02 13:30 Date Received..: 03/15/02
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	146	50.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 5				
Percent Moisture	22.4	0.50	%	ASTM D 2216-90	03/19-03/20/02	2079392
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: B-3 (19-21)

GC Volatiles

Lot-Sample #...: I2C150119-003	**Work Order #...:** EWFDT1AA	**Matrix.....:** SOLID
Date Sampled...: 03/12/02 14:57	**Date Received..:** 03/15/02	
Prep Date.....: 03/21/02	**Analysis Date..:** 03/21/02	
Prep Batch #...: 2081276		
Dilution Factor: 0.98		
% Moisture.....: 16	**Method.....:** SW846 8015B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	98	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	53	(14 - 165)

CONOCO INC.

Client Sample ID: B-3 (19-21)

GC Semivolatiles

Lot-Sample #...: I2C150119-003 **Work Order #...:** EWFDT1AC **Matrix.....:** SOLID
Date Sampled...: 03/12/02 14:57 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/23/02
Prep Batch #...: 2080379
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	ND	1700	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	105	(40 - 144)
Dotriacontane	107	(42 - 159)

CONOCO INC.

Client Sample ID: B-3 (19-21)

General Chemistry

Lot-Sample #...: I2C150119-003 **Work Order #...:** EWFDT **Matrix.....:** SOLID
Date Sampled...: 03/12/02 14:57 **Date Received..:** 03/15/02
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
	Dilution Factor: 1					
Percent Moisture	**15.9**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079392**
	Dilution Factor: 1					

CONOCO INC.

Client Sample ID: B-4 (19-21)

GC Volatiles

Lot-Sample #...: I2C150119-004	**Work Order #...:** EWFDV1AA		**Matrix.....:** SOLID
Date Sampled...: 03/12/02 16:37	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/22/02		
Prep Batch #...: 2081276			
Dilution Factor: 0.94			
% Moisture.....: 14	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	94	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	56	(14 - 165)

CONOCO INC.

Client Sample ID: B-4 (19-21)

GC Semivolatiles

Lot-Sample #...: I2C150119-004	**Work Order #...:** EWFDV1AC		**Matrix.....:** SOLID
Date Sampled...: 03/12/02 16:37	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 14	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**3100**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	87	(40 - 144)
Dotriacontane	105	(42 - 159)

CONOCO INC.

Client Sample ID: B-4 (19-21)

General Chemistry

Lot-Sample #...: I2C150119-004 Work Order #...: EWFDV Matrix.....: SOLID
Date Sampled...: 03/12/02 16:37 Date Received..: 03/15/02
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	31.5	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
	Dilution Factor: 1					
Percent Moisture	13.7	0.50	%	ASTM D 2216-90	03/19-03/20/02	2079473
	Dilution Factor: 1					

CONOCO INC.

Client Sample ID: B-5 (45-46)

GC Volatiles

Lot-Sample #...: I2C150119-005 **Work Order #...:** EWFDX1AA **Matrix.....:** SOLID
Date Sampled...: 03/13/02 11:25 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081276
Dilution Factor: 0.95
% Moisture.....: 6.0 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	95	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	71	(14 - 165)

CONOCO INC.

Client Sample ID: B-5 (45-46)

GC Semivolatiles

Lot-Sample #...: I2C150119-005	**Work Order #...:** EWFDX1AC		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 11:25	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 6.0	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**3200**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	116	(40 - 144)
Dotriacontane	117	(42 - 159)

CONOCO INC.

Client Sample ID: B-5 (45-46)

General Chemistry

Lot-Sample #...: I2C150119-005 Work Order #...: EWFDX Matrix.....: SOLID
Date Sampled...: 03/13/02 11:25 Date Received..: 03/15/02
% Moisture.....: 6.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	89.2	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1				
Percent Moisture	6.0	0.50	%	ASTM D 2216-90	03/19-03/20/02	2079473
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: B-6 (13-15)

GC Volatiles

Lot-Sample #...: I2C150119-006 **Work Order #...:** EWFD01AA **Matrix.....:** SOLID
Date Sampled...: 03/13/02 13:20 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081276
Dilution Factor: 0.98
% Moisture.....: 8.5 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	98	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	54	(14 - 165)

CONOCO INC.

Client Sample ID: B-6 (13-15)

GC Semivolatiles

Lot-Sample #...: I2C150119-006	**Work Order #...:** EWFD01AC		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 13:20	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 8.5	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**1800**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	93	(40 - 144)
Dotriacontane	105	(42 - 159)

CONOCO INC.

Client Sample ID: B-6 (13-15)

General Chemistry

Lot-Sample #...: I2C150119-006 **Work Order #...:** EWFD0 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 13:20 **Date Received..:** 03/15/02
% Moisture.....: 8.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1				
Percent Moisture	**8.5**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079473**
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: B-7 (13-15)

GC Volatiles

Lot-Sample #...: I2C150119-007 **Work Order #...:** EWFD31AA **Matrix.....:** SOLID
Date Sampled...: 03/13/02 14:05 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081276
Dilution Factor: 0.9
% Moisture.....: 8.7 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	90	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	50	(14 - 165)

CONOCO INC.

Client Sample ID: B-7 (13-15)

GC Semivolatiles

Lot-Sample #...: I2C150119-007	**Work Order #...:** EWFD31AC		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 14:05	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 8.7	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**2500**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	93	(40 - 144)
Dotriacontane	113	(42 - 159)

CONOCO INC.

Client Sample ID: B-7 (13-15)

General Chemistry

Lot-Sample #...: I2C150119-007 **Work Order #...:** EWFD3 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 14:05 **Date Received..:** 03/15/02
% Moisture.....: 8.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1				
Percent Moisture	**8.7**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079473**
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: B-8 (13-15)

GC Volatiles

Lot-Sample #...:	I2C150119-008	**Work Order #...:**	EWFD41AA	**Matrix.....:**	SOLID
Date Sampled...:	03/13/02 14:43	**Date Received..:**	03/15/02		
Prep Date.....:	03/21/02	**Analysis Date..:**	03/22/02		
Prep Batch #...:	2081276				
Dilution Factor:	0.94				
% Moisture.....:	20	**Method.....:**	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	94	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	89	(14 - 165)

CONOCO INC.

Client Sample ID: B-8 (13-15)

GC Semivolatiles

Lot-Sample #...: I2C150119-008	**Work Order #...:** EWFD41AC		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 14:43	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 20	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**2200**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	83	(40 - 144)
Dotriacontane	99	(42 - 159)

CONOCO INC.

Client Sample ID: B-8 (13-15)

General Chemistry

Lot-Sample #...: I2C150119-008 **Work Order #...:** EWFD4 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 14:43 **Date Received..:** 03/15/02
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
	Dilution Factor: 1					
Percent Moisture	**20.3**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079473**
	Dilution Factor: 1					

CONOCO INC.

Client Sample ID: B-9 (13-15)

GC Volatiles

Lot-Sample #...: I2C150119-009 **Work Order #...:** EWFD51AA **Matrix.....:** SOLID
Date Sampled...: 03/13/02 15:15 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081276
Dilution Factor: 0.94
% Moisture.....: 14 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	94	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	61	(14 - 165)

CONOCO INC.

Client Sample ID: B-9 (13-15)

GC Semivolatiles

Lot-Sample #...: I2C150119-009	**Work Order #...:** EWFD51AC		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 15:15	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 14	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**2400**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	88	(40 - 144)
Dotriacontane	97	(42 - 159)

CONOCO INC.

Client Sample ID: B-9 (13-15)

General Chemistry

Lot-Sample #...: I2C150119-009 **Work Order #...:** EWFD5 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 15:15 **Date Received..:** 03/15/02
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1				
Percent Moisture	**14.5**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079473**
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: B-10 (15-17)

GC Volatiles

Lot-Sample #...: I2C150119-010	**Work Order #...:** EWFD61AA		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 16:10	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/22/02		
Prep Batch #...: 2081276			
Dilution Factor: 0.92			
% Moisture.....: 17	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	**4000**	**92**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	482 *	(14 - 165)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Surrogates outside acceptance criteria due to coelution.

CONOCO INC.

Client Sample ID: B-10 (15-17)

GC Semivolatiles

Lot-Sample #...: I2C150119-010	**Work Order #...:** EWFD61AC	**Matrix.....:** SOLID	
Date Sampled...: 03/13/02 16:10	**Date Received..:** 03/15/02		
Prep Date.....: 03/21/02	**Analysis Date..:** 03/23/02		
Prep Batch #...: 2080379			
Dilution Factor: 1			
% Moisture.....: 17	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**250000**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	133	(40 - 144)
Dotriacontane	113	(42 - 159)

CONOCO INC.

Client Sample ID: B-10 (15-17)

General Chemistry

Lot-Sample #...: I2C150119-010 **Work Order #...:** EWFD6 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 16:10 **Date Received..:** 03/15/02
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1				
Percent Moisture	**16.7**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079473**
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: B-11 (13-15)

GC Volatiles

Lot-Sample #...:	I2C150119-011	**Work Order #...:**	EWFD81AA	**Matrix.....:**	SOLID
Date Sampled...:	03/13/02 17:15	**Date Received..:**	03/15/02		
Prep Date.....:	03/21/02	**Analysis Date..:**	03/22/02		
Prep Batch #...:	2081276				
Dilution Factor:	0.94				
% Moisture.....:	13	**Method.....:**	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	94	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	76	(14 - 165)

CONOCO INC.

Client Sample ID: B-11 (13-15)

GC Semivolatiles

Lot-Sample #...:	I2C150119-011	**Work Order #...:**	EWFD81AC	**Matrix.....:**	SOLID
Date Sampled...:	03/13/02 17:15	**Date Received..:**	03/15/02		
Prep Date.....:	03/21/02	**Analysis Date..:**	03/23/02		
Prep Batch #...:	2080379				
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**2500**	**1700**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	78	(40 - 144)
Dotriacontane	105	(42 - 159)

CONOCO INC.

Client Sample ID: B-11 (13-15)

General Chemistry

Lot-Sample #...: I2C150119-011 **Work Order #...:** EWFD8 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 17:15 **Date Received..:** 03/15/02
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1				
Percent Moisture	**13.2**	**0.50**	**%**	**ASTM D 2216-90**	**03/19-03/20/02**	**2079473**
		Dilution Factor: 1				

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I2C150119 **Work Order #...:** EWR5A1AA **Matrix.....:** SOLID
MB Lot-Sample #: I2C220000-276

Prep Date.....: 03/21/02
Analysis Date..: 03/21/02 **Prep Batch #...:** 2081276
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	81	(14 - 165)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I2C150119 **Work Order #...:** EWQLE1AA **Matrix.....:** SOLID
MB Lot-Sample #: I2C210000-379

Prep Date.....: 03/21/02
Analysis Date..: 03/23/02 **Prep Batch #...:** 2080379
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	1700	ug/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	107	(40 - 144)
Dotriacontane	118	(42 - 159)

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I2C150119 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: EWL8A1AA		MB Lot-Sample #:	I2C200000-127	
	ND	10.0	mg/kg	MCAWW 300.0A	03/19-03/20/02	2079127
		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 #...: I2C150119 **Work Order #...:** EWR5A1AC **Matrix.....:** SOLID
LCS Lot-Sample#: I2C220000-276
Prep Date.....: 03/21/02 **Analysis Date..:** 03/21/02
Prep Batch #...: 2081276
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics	**92**	**(70 - 134)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	124	(14 - 165)

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 #...: I2C150119 **Work Order #...:** EWQLE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: I2C210000-379
Prep Date.....: 03/21/02 **Analysis Date..:** 03/23/02
Prep Batch #...: 2080379
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Diesel Range Organics	**55**	**(38 - 139)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	87	(40 - 144)
Dotriacontane	106	(42 - 159)

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 #...: I2C150119 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: EWL8A1AC LCS Lot-Sample#: I2C200000-127			
	102	(80 - 120)	MCAWW 300.0A	03/19-03/20/02	2079127
		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 #...: I2C150119 **Work Order #...:** EWFDT1AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: I2C150119-003 EWFDT1AH-MSD
Date Sampled...: 03/12/02 14:57 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/22/02
Prep Batch #...: 2081276
Dilution Factor: 0.96 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	**86**	**(70 - 134)**			**SW846 8015B**
	90	**(70 - 134)**	**3.1**	**(0-30)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	109	(14 - 165)
	110	(14 - 165)

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 Semivolatiles

Client Lot #...: I2C150119 **Work Order #...:** EWFDR1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: I2C150119-002 EWFDR1AG-MSD
Date Sampled...: 03/12/02 13:30 **Date Received..:** 03/15/02
Prep Date.....: 03/21/02 **Analysis Date..:** 03/23/02
Prep Batch #...: 2080379
Dilution Factor: 1 **% Moisture.....:** 22

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	**64**	**(40 - 126)**			**SW846 8015B**
	51	**(40 - 126)**	**21**	**(0-30)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	78	(40 - 144)
	73	(40 - 144)
Dotriacontane	101	(42 - 159)
	104	(42 - 159)

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 #...: I2C150119 **Matrix.....:** SOLID
Date Sampled...: 03/13/02 17:15 **Date Received..:** 03/15/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: EWFDP1AF-MS/EWFDP1AG-MSD				MS Lot-Sample #: I2C150119-001	
	100	(75 - 125)			MCAWW 300.0A	03/19-03/20/02	2079127
	100	(75 - 125)	0.12	(0-20)	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1					
Chloride		WO#: EWFD81AF-MS/EWFD81AG-MSD				MS Lot-Sample #: I2C150119-011	
	86	(75 - 125)			MCAWW 300.0A	03/19-03/20/02	2079127
	87	(75 - 125)	0.67	(0-20)	MCAWW 300.0A	03/19-03/20/02	2079127
		Dilution Factor: 1					

NOTE(S):

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

C3

Chain of Custody Record

CHAIN OF CUSTODY NUMBER
$@007340-000

SEVERN TRENT SERVICES

I2C150119

89790

Severn Trent Laboratories, Inc.

STL4149 (0700)

Client	Project Manager	Date
Marin Technologies	Tom Tangen	03/08/2002
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
10601 Lomas NE Ste 106	(000) / (000)	STL Austin
City / **State** / **Zip Code**	**Site Contact**	
Albuquerque / NM / 87112	Tom Tangen	
Project Number/Name	**Carrier/Waybill Number**	
EP01002	8255-3192-1788	

Contract/Purchase Order/Quote Number

CONTRACT / PURCHASE ORDER # : 4501176533REED A SITE INVESTIGATION QUOTE: 46673

Page 1 of 1

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: GRO 8015B	Analysis: DRO 8015B	Analysis: Chloride 325.2
B-1 (19-21)	3-12-02	1128	Soil	4oz	Glass	2	None	2553-15-02 cc	X	X	X
B-2 (19-21)	3-12-02	1330	Soil	4oz	Glass	2	None		X	X	X
B-3 (19-21)	3-12-02	1457	Soil	4oz	Glass	2	None		X	X	X
B-4 (19-21)	3-12-02	1637	Soil	4oz	Glass	2	None		X	X	X
B-5 (45-46)	3-13-02	1125	Soil	4oz	Glass	2	None		X	X	X
B-6 (13-15)	3-13-02	1320	Soil	4oz	Glass	2	None		X	X	X
B-7 (13-15)	3-13-02	1405	Soil	4oz	Glass	2	None		X	X	X
B-8 (13-15)	3-13-02	1443	Soil	4oz	Glass	2	None		X	X	X
B-9 (13-15)	3-13-02	1515	Soil	4oz	Glass	2	None		X	X	X
B-10 (15-17)	3-13-02	1610	Soil	4oz	Glass	2	None		X	X	X
B-11 (13-15)	3-13-02	1715	Soil	4oz	Glass	2	None		X	X	X

Special Instructions

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☒ Normal ☐ Rush ☐ Other _____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: L.E. Pardo	3/8/02	1610	1. Received By:	3-15-02	0845
2. Relinquished By:	3/14/02	0730	2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

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

52/52

Certificate of Analysis

STL Austin
14046 Summit Drive
Austin, Texas 78728

Tel: 512 244 0855
Fax: 512 244 0160
www.stl-inc.com

SEVERN TRENT SERVICES
STL Austin

ANALYTICAL REPORT

PROJECT NO. REED A/MONUMENT

EP01002 Reed A Monument, NM

Lot #: I2C150263

Tom Tangen

Maxim Technologies
10601 Lomas NE Ste 106
Albuquerque, NM 87112

SEVERN TRENT LABORATORIES, INC.

Carla Butler
Carla M. Butler
Project Manager

April 4, 2002

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

STL Austin is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

I2C150263

Samples received in good condition within acceptable cooler temperature.

Trichloroethene was above control limits for the 8260B Laboratory Control Sample. The analyte was not detected in any of the samples. This slight positive bias is not believed to have impacted data quality. Recoveries for the Matrix Spike/Matrix Spike Duplicate of sample 002 were acceptable.

In lieu of a Matrix Spike/Matrix Spike Duplicate for DRO, a duplicate Laboratory Control Sample was prepared to provide precision measurements.

EXECUTIVE SUMMARY - Detection Highlights

I2C150263

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SPLP 1 03/12/02 15:00 001				
Diesel Range Organics	1100	50	ug/L	SW846 8015B
Chloride	8.9	1.0	mg/L	SW846 9056
SPLP 2 03/13/02 17:30 002				
Diesel Range Organics	310	50	ug/L	SW846 8015B

ANALYTICAL METHODS SUMMARY

I2C150263

PARAMETER	ANALYTICAL METHOD
Chloride	SW846 9056
Extractable Petroleum Hydrocarbons	SW846 8015B
Volatile Organics by GC/MS	SW846 8260B
Volatile Petroleum Hydrocarbons	SW846 8015B

References:

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

METHOD / ANALYST SUMMARY

I2C150263

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8015B	Ellen Grett	014902
SW846 8015B	Mark Shafer	001952
SW846 8260B	David Yancey	014906
SW846 9056	Cynthia A. Anderson	034090

References:

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

SAMPLE SUMMARY

I2C150263

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EWGND	001	SPLP 1	03/12/02	15:00
EWGNE	002	SPLP 2	03/13/02	17:30

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

I2C150263

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 9056	P207805	2079125	2079022
	SOLID	SW846 8015B	P207805	2080376	
	SOLID	SW846 8015B	P207802	2088273	2088094
	SOLID	SW846 8260B	P207802	2084212	2084094
002	SOLID	SW846 9056	P207805	2079125	2079022
	SOLID	SW846 8015B	P207805	2080376	
	SOLID	SW846 8015B	P207802	2088273	2088094
	SOLID	SW846 8260B	P207802	2084212	2084094

CONOCO INC.

Client Sample ID: SPLP 1

SPLP GC/MS Volatiles

Lot-Sample #...: I2C150263-001	**Work Order #...:** EWGND1AA	**Matrix.....:** SOLID
Date Sampled...: 03/12/02 15:00	**Date Received..:** 03/15/02	
Leach Date.....: 03/18/02	**Prep Date.....:** 03/23/02	**Analysis Date..:** 03/24/02
Leach Batch #..: P207802	**Prep Batch #...:** 2084212	
Dilution Factor: 1		
% Moisture.....:	**Method.....:** SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	110	(74 - 134)
Toluene-d8	99	(85 - 125)
Dibromofluoromethane	96	(69 - 136)
1,2-Dichloroethane-d4	90	(75 - 134)

NOTE(S):

Analysis performed in accordance with USEPA Synthetic Precipitation Leaching Procedure Method 1312

CONOCO INC.

Client Sample ID: SPLP 1

SPLP GC Volatiles

Lot-Sample #...: I2C150263-001	**Work Order #...:** EWGND1AD		**Matrix.....:** SOLID
Date Sampled...: 03/12/02 15:00	**Date Received..:** 03/15/02		
Leach Date.....: 03/18/02	**Prep Date.....:** 03/29/02		**Analysis Date..:** 03/29/02
Leach Batch #..: P207802	**Prep Batch #...:** 2088273		
Dilution Factor: 1			
% Moisture.....:	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Synthetic Precipitation Leaching Procedure Method 1312

CONOCO INC.

Client Sample ID: SPLP 1

SPLP GC Semivolatiles

Lot-Sample #...:	I2C150263-001	**Work Order #...:**	EWGND1AC	**Matrix.....:**	SOLID
Date Sampled...:	03/12/02 15:00	**Date Received..:**	03/15/02		
Leach Date.....:	03/18/02	**Prep Date.....:**	03/21/02	**Analysis Date..:**	03/23/02
Leach Batch #..:	P207805	**Prep Batch #...:**	2080376		
Dilution Factor:	1				
% Moisture.....:		**Method.....:**	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**1100**	**50**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	116	(28 - 131)
Dotriacontane	105	(37 - 139)

NOTE(S):

Analysis performed in accordance with USEPA Synthetic Precipitation Leaching Procedure Method 1312

CONOCO INC.

Client Sample ID: SPLP 1

SPLP General Chemistry

Lot-Sample #...:	I2C150263-001	Work Order #...:	EWGND	Matrix.....:	SOLID
Date Sampled...:	03/12/02 15:00	Date Received..:	03/15/02		
% Moisture.....:		Leach Date.....:	03/18/02	Leach Batch #..:	P207805

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	8.9	1.0	mg/L	SW846 9056	03/18-03/20/02	2079125

Dilution Factor: 1

CONOCO INC.

Client Sample ID: SPLP 2

SPLP GC/MS Volatiles

Lot-Sample #...:	I2C150263-002	**Work Order #...:**	EWGNE1AA	**Matrix.....:**	SOLID
Date Sampled...:	03/13/02 17:30	**Date Received..:**	03/15/02		
Leach Date.....:	03/18/02	**Prep Date.....:**	03/23/02	**Analysis Date..:**	03/24/02
Leach Batch #..:	P207802	**Prep Batch #...:**	2084212		
Dilution Factor:	1				
% Moisture.....:		**Method.....:**	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	114	(74 - 134)
Toluene-d8	101	(85 - 125)
Dibromofluoromethane	97	(69 - 136)
1,2-Dichloroethane-d4	94	(75 - 134)

NOTE(S):

Analysis performed in accordance with USEPA Synthetic Precipitation Leaching Procedure Method 1312

CONOCO INC.

Client Sample ID: SPLP 2

SPLP GC Volatiles

Lot-Sample #...: I2C150263-002	**Work Order #...:** EWGNE1AD		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 17:30	**Date Received..:** 03/15/02		
Leach Date.....: 03/18/02	**Prep Date.....:** 03/29/02		**Analysis Date..:** 03/29/02
Leach Batch #..: P207802	**Prep Batch #...:** 2088273		
Dilution Factor: 1			
% Moisture.....:	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Gasoline Range Organics	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Synthetic Precipitation Leaching Procedure Method 1312

CONOCO INC.

Client Sample ID: SPLP 2

SPLP GC Semivolatiles

Lot-Sample #...: I2C150263-002	**Work Order #...:** EWGNE1AC		**Matrix.....:** SOLID
Date Sampled...: 03/13/02 17:30	**Date Received..:** 03/15/02		
Leach Date.....: 03/18/02	**Prep Date.....:** 03/21/02		**Analysis Date..:** 03/23/02
Leach Batch #..: P207805	**Prep Batch #...:** 2080376		
Dilution Factor: 1			
% Moisture.....:	**Method.....:** SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diesel Range Organics	**310**	**50**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	118	(28 - 131)
Dotriacontane	109	(37 - 139)

NOTE(S):

Analysis performed in accordance with USEPA Synthetic Precipitation Leaching Procedure Method 1312

CONOCO INC.

Client Sample ID: SPLP 2

SPLP General Chemistry

Lot-Sample #...:	I2C150263-002	**Work Order #...:**	EWGNE	**Matrix.....:**	SOLID
Date Sampled...:	03/13/02 17:30	**Date Received..:**	03/15/02		
% Moisture.....:		**Leach Date.....:**	03/18/02	**Leach Batch #..:**	P207805

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	1.0	mg/L	SW846 9056	03/18-03/20/02	2079125

Dilution Factor: 1

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I2C150263 **Work Order #...:** EWWFJ1AA **Matrix.....:** SOLID
MB Lot-Sample #: I2C250000-212

Prep Date.....: 03/23/02
Analysis Date..: 03/24/02 **Prep Batch #...:** 2084212
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	107	(74 - 134)
Toluene-d8	101	(85 - 125)
Dibromofluoromethane	94	(69 - 136)
1,2-Dichloroethane-d4	92	(75 - 134)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I2C150263 **Work Order #...:** EW6H01AA **Matrix.....:** SOLID
MB Lot-Sample #: I2C290000-273

Prep Date.....: 03/29/02
Analysis Date..: 03/29/02 **Prep Batch #...:** 2088273
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 125)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I2C150263 **Work Order #...:** EWQK61AA **Matrix.....:** SOLID
MB Lot-Sample #: I2C210000-376

Prep Date.....: 03/21/02
Analysis Date..: 03/23/02 **Prep Batch #...:** 2080376
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	50	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	128	(28 - 131)
Dotriacontane	110	(37 - 139)

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I2C150263 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: EWL8D1AA		MB Lot-Sample #:	I2C200000-125	
	ND	1.0	mg/L	SW846 9056	03/18-03/20/02	2079125
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I2C150263 **Work Order #...:** EWWFJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: I2C250000-212
Prep Date.....: 03/23/02 **Analysis Date..:** 03/24/02
Prep Batch #...: 2084212
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**110**	**(80 - 122)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(51 - 131)**	**SW846 8260B**
Toluene	**98**	**(81 - 127)**	**SW846 8260B**
Trichloroethene	**131 a**	**(78 - 124)**	**SW846 8260B**
Chlorobenzene	**101**	**(81 - 123)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	113	(74 - 134)
Toluene-d8	100	(85 - 125)
Dibromofluoromethane	97	(69 - 136)
1,2-Dichloroethane-d4	94	(75 - 134)

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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I2C150263 **Work Order #...:** EW6H01AC **Matrix.....:** SOLID
LCS Lot-Sample#: I2C290000-273
Prep Date.....: 03/29/02 **Analysis Date..:** 03/29/02
Prep Batch #...: 2088273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics	**111**	**(80 - 120)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	112	(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 Semivolatiles

Client Lot #...: I2C150263 **Work Order #...:** EWQK61AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: I2C210000-376 EWQK61AD-LCSD
Prep Date.....: 03/21/02 **Analysis Date..:** 03/23/02
Prep Batch #...: 2080376
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	**115**	**(51 - 127)**			**SW846 8015B**
	125	**(51 - 127)**	**8.5**	**(0-28)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	113	(28 - 131)
	120	(28 - 131)
Dotriacontane	106	(37 - 139)
	118	(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 #...: I2C150263 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: EWL8D1AC	LCS Lot-Sample#: I2C200000-125		
	101	(80 - 120)	SW846 9056	03/18-03/20/02	2079125
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

SPLP GC/MS Volatiles

Client Lot #...:	I2C150263	**Work Order #...:**	EWGNE1AF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I2C150263-002		EWGNE1AG-MSD		
Date Sampled...:	03/13/02 17:30	**Date Received..:**	03/15/02		
Leach Date.....:	03/18/02	**Prep Date.....:**	03/23/02	**Analysis Date..:**	03/24/02
Leach Batch #..:	P207802	**Prep Batch #...:**	2084212		
Dilution Factor:	1	**% Moisture.....:**			

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**102**	**(80 - 122)**			**SW846 8260B**
	105	**(80 - 122)**	**2.2**	**(0-13)**	**SW846 8260B**
1,1-Dichloroethene	**94**	**(51 - 131)**			**SW846 8260B**
	97	**(51 - 131)**	**3.1**	**(0-29)**	**SW846 8260B**
Toluene	**92**	**(81 - 127)**			**SW846 8260B**
	93	**(81 - 127)**	**1.8**	**(0-20)**	**SW846 8260B**
Trichloroethene	**105**	**(78 - 124)**			**SW846 8260B**
	108	**(78 - 124)**	**2.8**	**(0-14)**	**SW846 8260B**
Chlorobenzene	**91**	**(81 - 123)**			**SW846 8260B**
	95	**(81 - 123)**	**3.8**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	113	(74 - 134)
	112	(74 - 134)
Toluene-d8	101	(85 - 125)
	100	(85 - 125)
Dibromofluoromethane	98	(69 - 136)
	98	(69 - 136)
1,2-Dichloroethane-d4	95	(75 - 134)
	93	(75 - 134)

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 #...: I2C150263 **Work Order #...:** EWGND1AH-MS **Matrix.....:** SOLID
MS Lot-Sample #: I2C150263-001 EWGND1AJ-MSD
Date Sampled...: 03/12/02 15:00 **Date Received..:** 03/15/02
Prep Date.....: 03/29/02 **Analysis Date..:** 03/29/02
Prep Batch #...: 2088273
Dilution Factor: 1 **% Moisture.....:**

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	**108**	**(80 - 120)**			**SW846 8015B**
	108	**(80 - 120)**	**0.0**	**(0-30)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	115	(75 - 125)
	112	(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

General Chemistry

Client Lot #...: I2C150263 **Matrix.....:** SOLID
Date Sampled...: 03/12/02 15:00 **Date Received..:** 03/15/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: EWGND1AF-MS/EWGND1AG-MSD				MS Lot-Sample #: I2C150263-001	
	87	(75 - 125)			SW846 9056	03/18-03/20/02	2079125
	87	(75 - 125)	0.05	(0-20)	SW846 9056	03/18-03/20/02	2079125
		Dilution Factor: 1					

NOTE(S):

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

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

IZC150263 60166

27/27

STL4149 (0700)

Client: Maxim Technologies	Project Manager: Tom Tangen	Date: 03/08/2002	Page 1 of 1
Address: 10601 Lomas NE Suite 106	Telephone Number (Area Code)/Fax Number: 505 237 8440	Lab Location: STL Austin	
City: Albuquerque, State: NM Zip Code: 87111	Site Contact: 8283 4185 6545		
Project Number/Name: EP01002	Carrier/Waybill Number: 8283-4185-6545		
Contract/Purchase Order/Quote Number: 4501176533 Reed A Investigation			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: SPLP 6020	SPLP 8260	SPLP BTEX	SPLP Chloride
SPLP 1	3/12/02	1500	Soil Comp	8 oz	glass	2	None	3.6° C 3-15-02 LL	X	X	X	X
SPLP 2	3/13/02	1730	Soil Comp	8 oz	glass	2	None		X	X	X	X

Special Instructions:

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [X] Normal [ ] Rush [ ] Other _____

QC Level: [ ] I. [ ] II. [ ] III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	3/14/02	8:30	1. Received By	3-15-02	0845
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

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