1R – 427-177

WORK PLANS

DATE:
5-22-07

IR427-177
Work Plan
5-22-07

CERTIFIED MAIL
RETURN RECIEPT NO. 7005 1160 0005 3780 6498

May 22, 2007

Mr. Wayne Price
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RE: **CORRECTIVE ACTION PLAN (CAP)**
A-2-1 JUNCTION BOX, EME SWD SYSTEM
UNIT "A", SEC. 2, T20S, R36E
LEA COUNTY, NEW MEXICO

Mr. Price:

RICE Operating Company (ROC) has retained Highlander Environmental Corp. (Highlander) to address potential environmental concerns at the above-referenced site. ROC is the service provider (agent) for the Eunice Monument Eumont (EME) SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental projects of this magnitude require System Partner AFE approval and work begins as funds are received. In general, project funding is not forthcoming until NMOCD approves the work plan. Therefore, your timely review of this submission is requested.

For all environmental projects, ROC will choose a path forward that:

- protects public health,
- provides the greatest net environmental benefit,
- complies with NMOCD Rules, and
- is supported by good science.

Each site shall have three submissions or a combination of:

1. An **Investigation and Characterization Plan** (ICP) is a proposal for data gathering and site characterization and assessment.

2. Upon evaluating the data and results from the ICP, a recommended remedy is submitted in this **Corrective Action Plan** (CAP).

3. Finally, after implementing the remedy, a **Closure Report** with final documentation will be submitted.

1.0 BACKGROUND & PREVIOUS WORK

As part of the ROC Junction Box Upgrade Workplan, starting on February 26, 2004, the junction box was moved 85 feet to the west. The former junction box site was investigated vertically and horizontally with a backhoe. Test trenches were placed 10 feet in each direction from the source and showed a decline in chloride concentrations with depth to below 250 mg/L at 14 feet bgs. The Site was excavated with dimensions of approximately 20 feet x 20 feet x 12 feet. TPH impact was noted to a depth of at least 12 feet below ground surface (bgs). The bottom hole chloride concentration was 659 mg/kg at 12 feet, and a 4-wall composite sample had a concentration of 915 mg/kg. Regional groundwater information indicates that the depth to groundwater is approximately 50 feet bgs.

The excavated soil was blended onsite and replaced into the excavation to a depth of 6 feet bgs. At 6 feet bgs, a compacted clay barrier was installed to inhibit further hydrocarbon and chloride migration. The remaining soils were backfilled on top of the clay barrier and contoured to the surrounding surface. On June 2, 2004, a hollow-stem auger unit was utilized to conduct one soil boring at the former junction box site. The soil boring was advanced to a total depth of 30 feet bgs. A bottom hole sample (shown as 35 feet bgs) was collected from the borehole and exhibited a TPH concentration of 242.5 mg/kg and a chloride concentration of 688 mg/kg. The site was disclosed to the NMOCD as a potential groundwater impact site on June 29, 2005. Additionally, ROC submitted a Junction Box Disclosure Report to the NMOCD dated July 1, 2005.

On September 29, 2006, ROC submitted the ICP to Mr. Wayne Price of the NMOCD-Santa Fe office for review. Mr. Price granted approval of the ICP in a letter dated October 4, 2006.

Between October 11 through October 13, 2006, Highlander personnel were onsite to oversee the installation of three monitor wells (MW-1 through MW-3) along with five soil borings (SB-2 through SB-6) within, up, and down gradient of the release area. The affected area measured approximately 45 feet by 75 feet. Soil samples were collected every 5 feet, utilizing a split spoon sampler, and field screened for chlorides. In addition, collected samples were placed into laboratory supplied containers and delivered to the laboratory under chain-of-custody control for chloride analysis by EPA method 300.0, along with select samples for BTEX and TPH utilizing EPA analysis method 8021B and 8015M, respectively. The split spoons were decontaminated between samples utilizing an Alconox© and deionized water wash followed by a deionized water rinse. Copies of laboratory analyses and chain-of-custody documentation are included in Appendix A. The monitor well locations are shown on Figure 2. The soil boring logs and monitor well completion diagrams are included in Appendix B. The results of the sampling are summarized in Table 1.

Referring to Table 1, with the exception of SB-2, residual chloride impact to subsurface soils was less than 1,000 mg/kg except near the saturated zone where chloride concentrations increase to near or slightly greater than 1,000 mg/kg.

Following installation of the monitor wells, the wells were gauged and developed by handbailing to remove fine grain sediment disturbed during drilling and to ensure collection of representative groundwater samples. Water removed from the wells was disposed of in the EME SWD system. Upon development of the monitor wells, personnel were onsite on November 6, 2006 to collect representative groundwater samples from each of the monitor wells, place the samples within laboratory supplied containers and submit to the laboratory under chain-of-custody control for chloride and BTEX analysis by EPA Method 300.0 and 602/8021B, respectively. The gauging data is summarized in Table 2, while the results of the sampling are summarized in Table 3

Referring to Table 3, groundwater concentrations in all three monitor wells had elevated chloride levels ranging from 7,970 mg/L in MW-3 (downgradient) to 10,100 mg/L in MW-1 (source) and MW-2 (upgradient). In addition, TDS ranged from 20,400 mg/L in MW-3 to 23,600 mg/L in MW-2. BTEX concentrations were elevated in monitor well MW-1, but remained below the New Mexico Water Quality Control Commission standards. No BTEX was reported in monitor wells MW-2 and MW-3. Subsequent sampling on February 13, 2007 indicated that benzene concentrations have exceeded the NMWQCC standards of 0.005 mg/L in MW-1.

In comparing the chloride concentration analysis data from the EME A-2-1 with other water quality in the area, specifically the ROC EME D-1, it appears the chloride concentrations at the site are consistent with regional groundwater in the area. The EME D-1 data indicates the TDS ranges from 7,910 mg/Kg to 12,900 mg/kg in areas located outside the initial release area. A likely source for the elevated regional chloride concentrations is the up gradient abandoned Climax Chemical facility located approximately 2,600 feet north of the site. The site has had verified elevated chloride impacts to the groundwater since 1981.

Measurable PSH (several inches) was detected in monitor well MW-1 after installation of the well in November 2006. Since January 2007, absorbent sock recovery has been the preferred method of product recovery. Product thicknesses have declined to a sheen since January 2007 with negligible amounts of PSH recovered. The monitor well is gauged on a monthly basis and the absorbent sock replaced, as needed. The gauging data and PSH recovery for monitor well MW-1 is included in Table 4.

2.0 COLLECTED REGIONAL HYDROGEOLOGIC DATA

Groundwater was encountered at approximately 43 feet bgs in the three installed monitor wells. The regional groundwater gradient in the area is towards the southeast.

3.0 EVALUATION

When evaluating any proposed remedy or investigative work, ROC will confirm that there is a reasonable relationship between the benefits created by the proposed remedy or assessment and the economic and social costs. In evaluating the documented levels of chlorides within the soil, it was determined that an unconsolidated clay barrier be placed within the

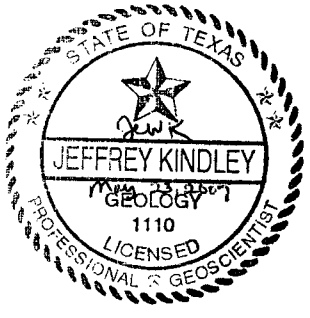
impacted zone in order to prevent further vertical migration of the chlorides into the surrounding soils.

4.0 PROPOSED REMEDY

Since a previous clay barrier was placed within the impacted area during the initial excavation of the junction box upgrade and in light of the ICP sample results, it doesn't appear that the residual chlorides and hydrocarbons in the vicinity of MW-1 will leach into the surrounding groundwater. However, with the elevated levels of chlorides in SB-2, ROC proposes extending the existing clay liner to encompass the area surrounding the soil boring. Upon completion of the extension of the clay liner, ROC proposes preparation and revegetation of the surface soils in order to provide an infiltration barrier. See proposed revegetation area on Figure 3. Based on the visual inspection and subsurface drilling, the area of the former junction box to be revegetated is approximately 75 feet by 45 feet.

In addition, ROC will continue quarterly sampling and monthly PSH recovery from MW-1, and Annual Report submittals for the site.

If you require any additional information or have any questions or comments, please call.



Highlander Environmental Corp.

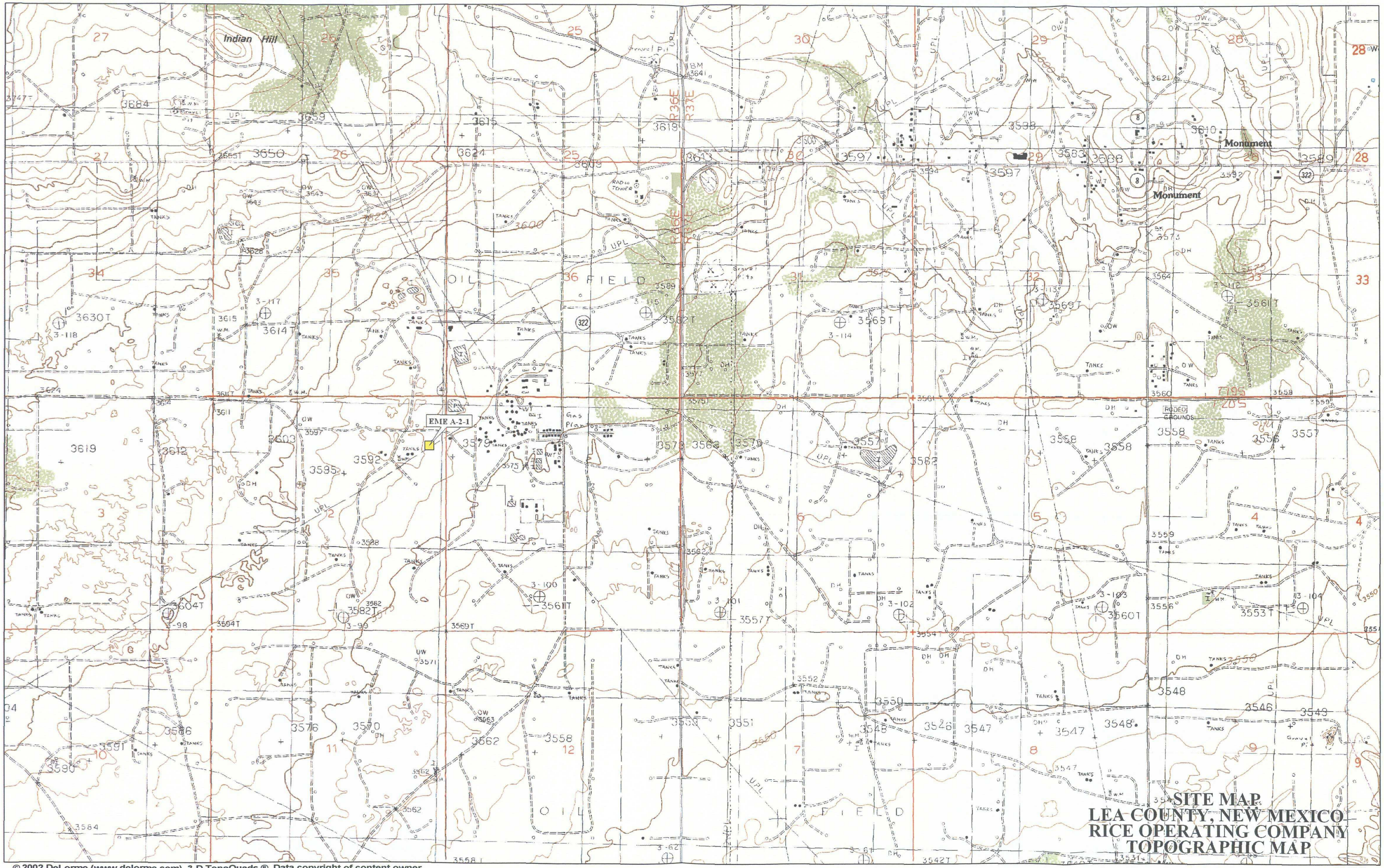
Jeffrey Kindley

Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: ROC
Edward Hansen-NMOCD

enclosures: site maps, data tables, lab results, figures

FIGURES



Scale: 1 : 24,000 Map Rotation: 0° Magnetic Declination: 8.7°E

SITE MAP
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP

1,000 ft

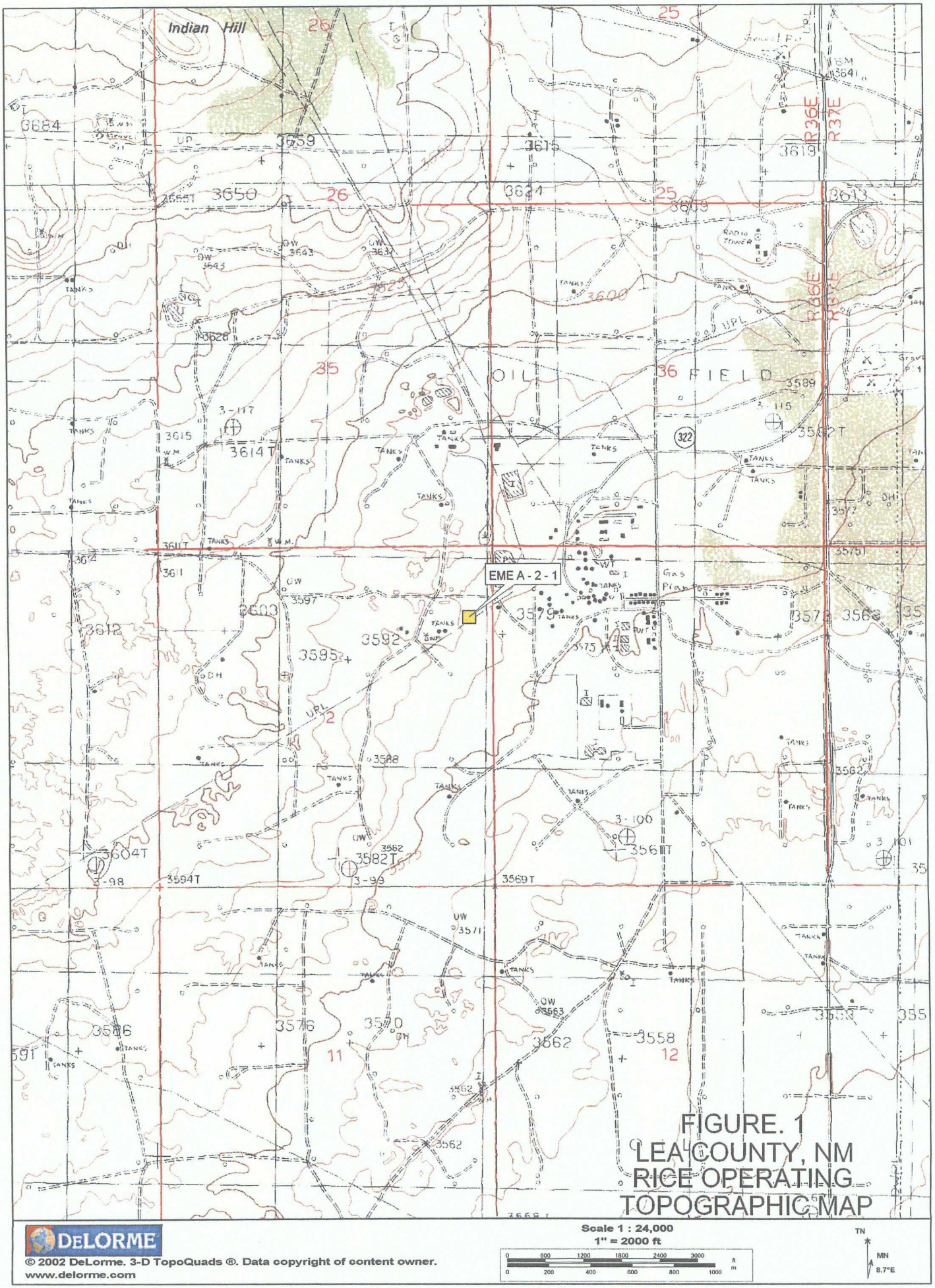
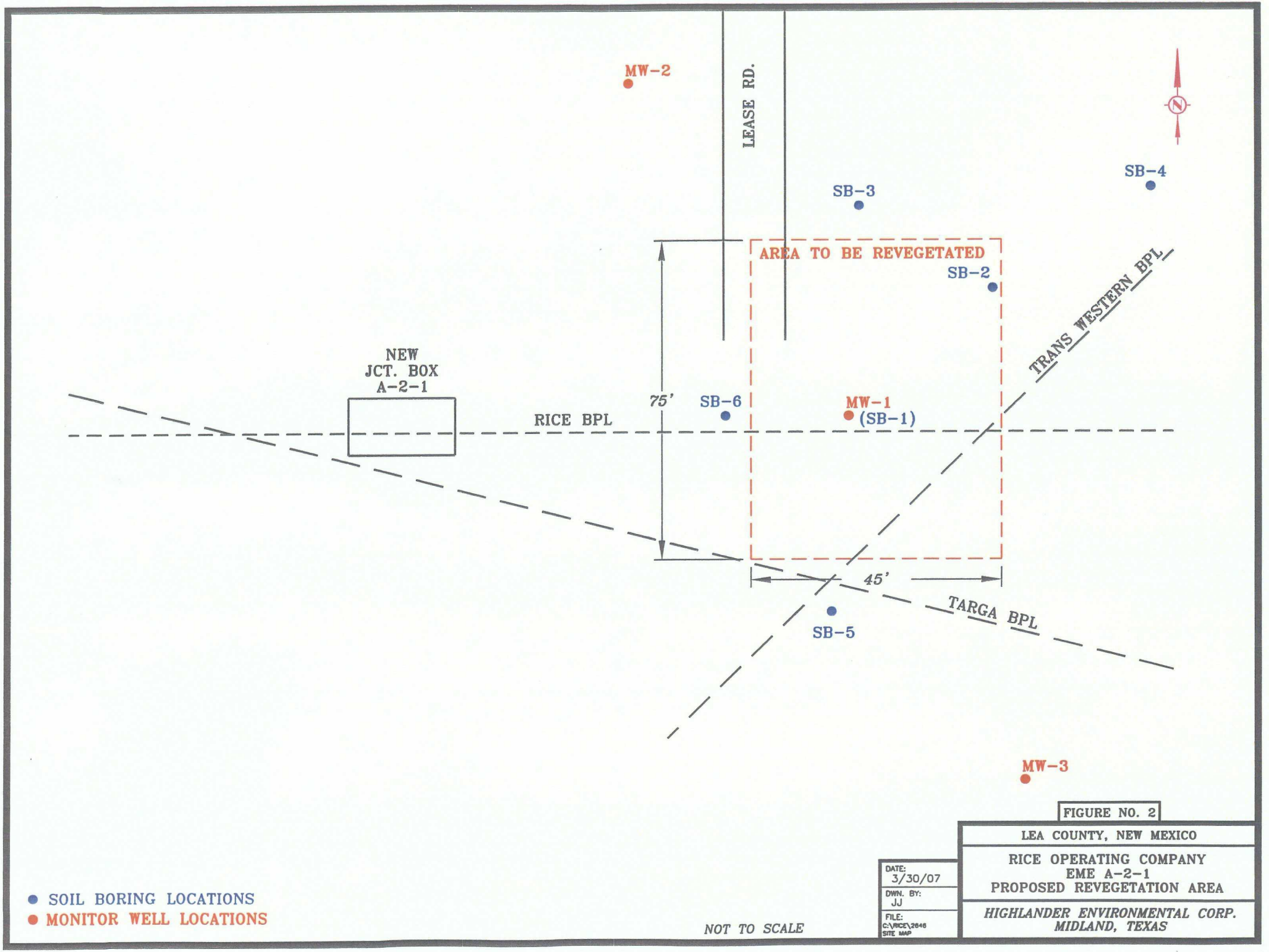
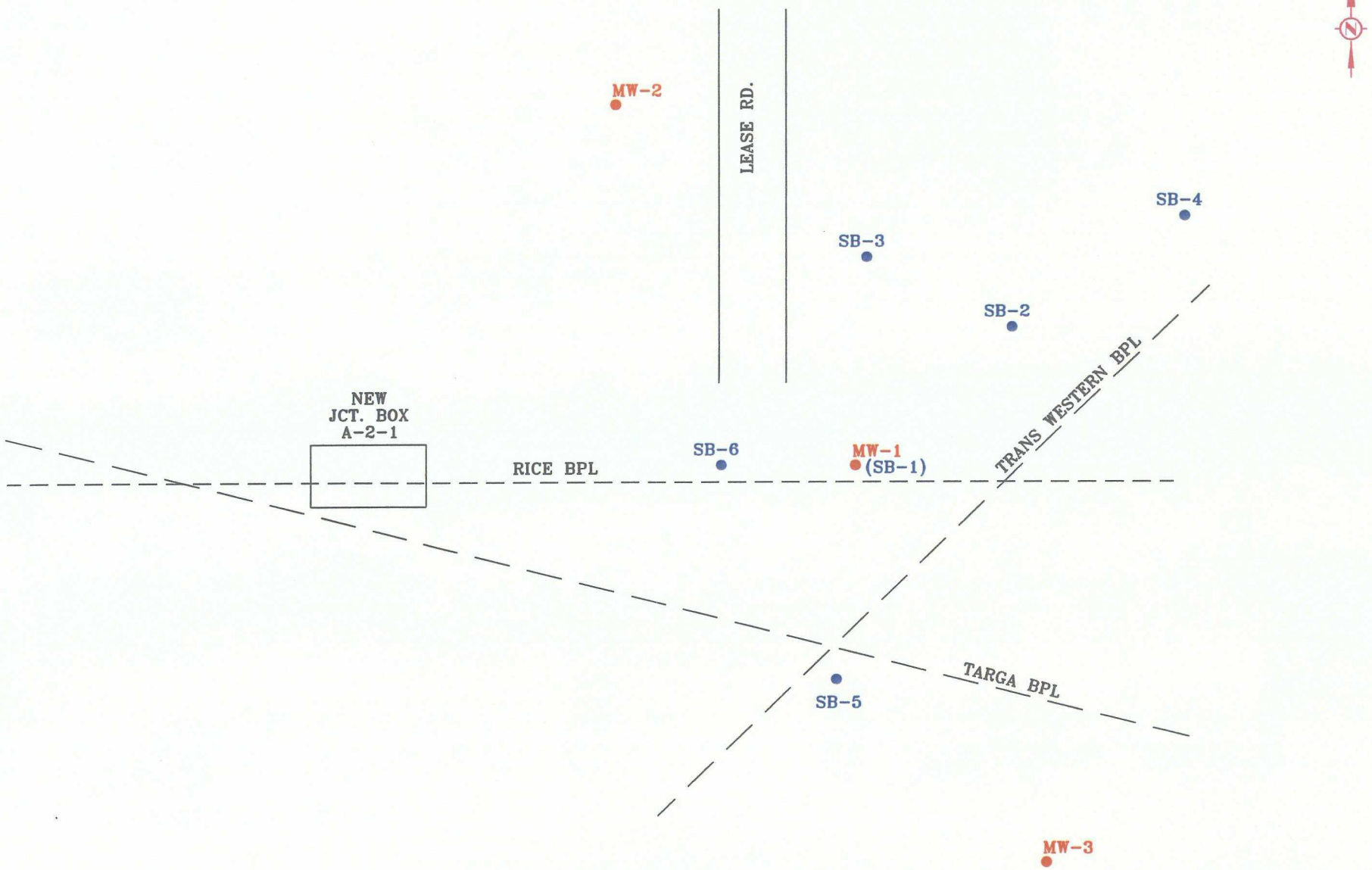


FIGURE. 1
LEA COUNTY, NM
RICE OPERATING
TOPOGRAPHIC MAP


MW-2
LEASE RD.
SB-4
SB-3
AREA TO BE REVEGETATED
SB-2
TRANS WESTERN BPL
NEW
JCT. BOX
A-2-1
75'
SB-6
MW-1
(SB-1)
RICE BPL
45'
TARGA BPL
SB-5
MW-3
SOIL BORING LOCATIONS
MONITOR WELL LOCATIONS
NOT TO SCALE
DATE: 3/30/07
DWN. BY: JJ
FILE: C:\RICE\2646 SITE MAP
FIGURE NO. 2
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
EME A-2-1
PROPOSED REVEGETATION AREA
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



● SOIL BORING LOCATIONS
● MONITOR WELL LOCATIONS

NOT TO SCALE

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY
EME A-2-1
SITE MAP

DATE: 3/30/07
DWN. BY: JJ
FILE: C:\RICE\2646 SITE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

TABLES

Table 1

Rice Operating

Soils Analytical Results

EME A-2-I

Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Chlorides Field (mg/kg)	Chlorides Lab (mg/kg)	TPH (mg/kg) C6-C12	C12-C28	C-28-C35	Total
SB-1 (MW-1)	10/11/06	8-10'	0.374	0.983	1.61	2.163	4.977	537	**266**	214	469	45	**728**
SB-1 (MW-1)	10/11/06	13-15'	0.147	0.736	4.46	9.27	14.613	483	**349**	3,560	5,770	640	**9,970**
SB-1 (MW-1)	10/11/06	18-20'	NA	NA	NA	NA	NA	445	**277**	895	2,220	188	**3,300**
SB-1 (MW-1)	10/11/06	23-25'	NA	NA	NA	NA	NA	502	42.5	NA	NA	NA	NA
SB-1 (MW-1)	10/11/06	28-30'	N A	NA	NA	NA	NA	508	63.8	NA	NA	NA	NA
SB-1 (MW-1)	10/11/06	33-35'	NA	NA	NA	NA	NA	511	**596**	NA	NA	NA	NA
SB-2	10/11/06	3-5'	NA	NA	NA	NA	NA	3,989	**2,980**	<10.0	<10.0	<10.0	<10.0
SB-2	10/11/06	8-10'	NA	NA	NA	NA	NA	4,129	**6,170**	<10.0	<10.0	<10.0	<10.0
SB-2	10/11/06	13-15'	NA	NA	NA	NA	NA	2,229	**5,320**	<10.0	20.5	<10.0	20.5
SB-2	10/11/06	18-20'	NA	NA	NA	NA	NA	4,098	**2,770**	NA	NA	NA	NA
SB-2	10/11/06	23-25'	NA	NA	NA	NA	NA	3,444	**5,530**	NA	NA	NA	NA
SB-2	10/11/06	28-30'	NA	NA	NA	NA	NA	2,705	**3,300**	NA	NA	NA	NA
SB-2	10/11/06	33-35'	NA	NA	NA	NA	NA	2,351	**2,340**	NA	NA	NA	NA
SB-3	10/11/06	3-5'	NA	NA	NA	NA	NA	207	85.1	<10.0	<10.0	<10.0	<10.0
SB-3	10/11/06	8-10'	NA	NA	NA	NA	NA	303	**330**	NA	NA	NA	NA
SB-3	10/11/06	13-15'	NA	NA	NA	NA	NA	496	**404**	NA	NA	NA	NA
SB-3	10/11/06	18-20'	NA	NA	NA	NA	NA	374	**425**	NA	NA	NA	NA
SB-3	10/11/06	23-25'	NA	NA	NA	NA	NA	530	**362**	NA	NA	NA	NA
SB-3	10/11/06	28-30'	NA	NA	NA	NA	NA	410	234	NA	NA	NA	NA
SB-3	10/11/06	33-35'	NA	NA	NA	NA	NA	510	**383**	NA	NA	NA	NA
SB-4	10/11/06	3-5'	NA	NA	NA	NA	NA	196	21.3	<10.0	<10.0	<10.0	<10.0
SB-4	10/11/06	8-10'	NA	NA	NA	NA	NA	518	**553**	NA	NA	NA	NA
SB-4	10/11/06	13-15'	NA	NA	NA	NA	NA	554	**851**	NA	NA	NA	NA
SB-4	10/11/06	18-20'	NA	NA	NA	NA	NA	513	**596**	NA	NA	NA	NA

Table 1

Rice Operating

Soils Analytical Results

EME A-2-1

Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Chlorides Field (mg/kg)	Chlorides Lab (mg/kg)	TPH (mg/kg)			
										C6-C12	C12-C28	C-28-C35	Total
SB-4	10/11/06	23-25'	NA	NA	NA	NA	NA	261	**553**	NA	NA	NA	NA
SB-4	10/11/06	28-30'	NA	NA	NA	NA	NA	516	**638**	NA	NA	NA	NA
SB-4	10/11/06	33-35'	NA	NA	NA	NA	NA	692	**915**	NA	NA	NA	NA
SB-5	10/11/06	3-5'	NA	NA	NA	NA	NA	86	<20.0	<10.0	<10.0	<10.0	<10.0
SB-5	10/11/06	8-10'	NA	NA	NA	NA	NA	170	42.5	NA	NA	NA	NA
SB-5	10/11/06	13-15'	NA	NA	NA	NA	NA	221	21.3	NA	NA	NA	NA
SB-5	10/11/06	18-20'	NA	NA	NA	NA	NA	324	223	NA	NA	NA	NA
SB-5	10/11/06	23-25'	NA	NA	NA	NA	NA	366	**362**	NA	NA	NA	NA
SB-5	10/11/06	28-30'	NA	NA	NA	NA	NA	374	**479**	NA	NA	NA	NA
SB-5	10/11/06	33-35'	NA	NA	NA	NA	NA	480	**1,000**	26.8	202.0	36.7	**266**
SB-6	10/11/06	3-5'	NA	NA	NA	NA	NA	250	223	<10.0	<10.0	<10.0	<10.0
SB-6	10/11/06	8-10'	NA	NA	NA	NA	NA	381	**447**	NA	NA	NA	NA
SB-6	10/11/06	13-15'	NA	NA	NA	NA	NA	58	**723**	NA	NA	NA	NA
SB-6	10/11/06	18-20'	NA	NA	NA	NA	NA	365	117	NA	NA	NA	NA
SB-6	10/11/06	23-25'	NA	NA	NA	NA	NA	235	**277**	NA	NA	NA	NA
SB-6	10/11/06	28-30'	NA	NA	NA	NA	NA	333	**277**	NA	NA	NA	NA
SB-6	10/11/06	33-35'	NA	NA	NA	NA	NA	605	117	NA	NA	NA	NA

NA - Not Analyzed ND - Not detected

Table 2
Rice Operating
Groundwater Gauging Data
jct. A-2-1
Lea County, New Mexico

Monitor Well	Date Gauged	Date of Well Installation	Top of Casing Elevation (ft)	Total Depth of Well (bgs in ft)	Water Level Below TOC (ft)	Groundwater Elevation (ft)
MW-1	11/06/06	10/11/06	3,588.50	53.76	38.13	3550.37
MW-2	11/06/06	10/13/06	3,587.86	48.65	36.45	3551.41
MW-3	11/06/06	10/13/06	3,586.49	47.38	37.12	3549.37

Table 3

Rice Operating

Groundwater Sample Analysis

EME jct A-2-1

Lea County, New Mexico

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	Chlorides (mg/L)	Sulfate (mg/L)	TDS (mg/L)
MW-1	11/01/06	0.00331	0.00158	0.00337	0.03418	0.04244	**8,460**	6,780	**22,800**
	02/13/07	0.0692	0.00526	**0.0313**	0.0404	0.14616	**10,100**	8,190	**17,900**
MW-2	11/01/06	<0.001	<0.001	<0.001	<0.001	<0.001	**8,680**	6,960	**23,600**
	02/13/07	<0.001	<0.001	<0.001	<0.001	<0.001	**10,100**	7,990	**20,300**
MW-3	11/01/06	<0.001	<0.001	<0.001	<0.001	<0.001	**7,970**	5,950	**20,400**
	02/13/07	<0.001	<0.001	<0.001	<0.001	<0.001	**9,820**	6,050	**23,600**

APPENDIX A

SAMPLE LOG

Boring/Well: MW-1
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 50
Date Installed: 10/11/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
8-10	537	680	Dark brown hydrocarbon stained sand
13-15	483	640	Dark brown hydrocarbon stained sand
18-20	445	450	Dark brown hydrocarbon stained sand
23-25	502	370	Dark brown hydrocarbon stained sand
28-30	508	420	Dark brown hydrocarbon stained sand
33-35	511	840	Dark brown hydrocarbon stained sand
38-40	50	950	Dark brown hydrocarbon stained sand (wet)
43-45	0	--	Tan brown clay
48-50	0	--	Tan brown clay

Boring completed at 50 feet bgs Groundwater encountered at 39 feet

SAMPLE LOG

Boring/Well: MW-2
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 46
Date Installed: 10/13/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	1	88	Tan brown fine grain sand
8-10	2	587	Tan brown fine grain sand
13-15	1	480	Tan calcareous fine grain sand
18-20	0	511	Tan calcareous fine grain sand
23-25	2	481	Tan calcareous fine grain sand
28-30	0	782	Tan/buff calcareous fine grain sand
33-35	1	1131	Tan calcareous fine grain sand
38-40	0	--	Tan calcareous fine grain sand
43-45	0	--	Tan calcareous fine grain sand

Boring completed at 46 feet bgs Groundwater encountered at 36 feet

SAMPLE LOG

Boring/Well: MW-3
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 46
Date Installed: 10/13/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	4	184	Tan brown fine grain sand
8-10	7	270	Tan brown fine grain sand
13-15	7	338	Tan calcareous fine grain sand
18-20	4	648	Tan calcareous fine grain sand
23-25	6	513	Tan calcareous fine grain sand
28-30	6	630	Tan calcareous fine grain sand
33-35	5	618	Tan calcareous fine grain sand
38-40	0	--	Tan calcareous fine grain sand
43-45	0	--	Tan calcareous fine grain sand

Boring completed at 46 feet bgs Groundwater encountered at 36 feet

SAMPLE LOG

Boring/Well: SB-2
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 38
Date Installed: 10/11/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	6	3989	Tan brown find grain sand
8-10	4	4129	Buff/tan calcareous fine grain sand
13-15	3	2229	Tan/buff calcareous fine grain sand
18-20	3	4098	Tan/buff calcareous fine grain sand
23-25	1	3444	Tan calcareous fine grain sand
28-30	1	2705	Tan calcareous fine grain sand
33-35	4	2351	Tan calcareous fine grain sand

Boring completed at 38 feet bgs Groundwater encountered at 38 feet

SAMPLE LOG

Boring/Well: SB-3
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 38
Date Installed: 10/11/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	0	207	Tan brown find grain sand
8-10	0	303	Tan calcareous fine grain sand
13-15	0	496	Tan calcareous fine grain sand
18-20	0	374	Tan fine grain sand
23-25	0	530	Tan fine grain sand
28-30	0	410	Tan fine grain sand
33-35	0	510	Tan fine grain sand

Boring completed at 38 feet bgs Groundwater encountered at 38 feet

SAMPLE LOG

Boring/Well: SB-4
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 38
Date Installed: 10/11/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	0	196	Tan brown find grain sand
8-10	0	518	Tan calcareous fine grain sand
13-15	0	554	Tan calcareous fine grain sand
18-20	0	513	Tan calcareous fine grain sand
23-25	0	261	Tan calcareous fine grain sand
28-30	0	516	Tan calcareous fine grain sand
33-35	0	692	Tan calcareous fine grain sand

Boring completed at 38 feet bgs Groundwater encountered at 38 feet

SAMPLE LOG

Boring/Well: SB-5
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 38
Date Installed: 10/11/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	0	86	Tan brown clayey fine grain sand
8-10	0	170	Tan/buff calcareous fine grain sand
13-15	0	221	Tan/buff calcareous fine grain sand
18-20	0	324	Tan calcareous fine grain sand
23-25	0	366	Tan calcareous fine grain sand
28-30	0	374	Tan calcareous fine grain sand
33-35	29	480	Dark tan/brown fine grain sand with hydrocarbon staining and odor

Boring completed at 38 feet bgs Groundwater encountered at 38 feet

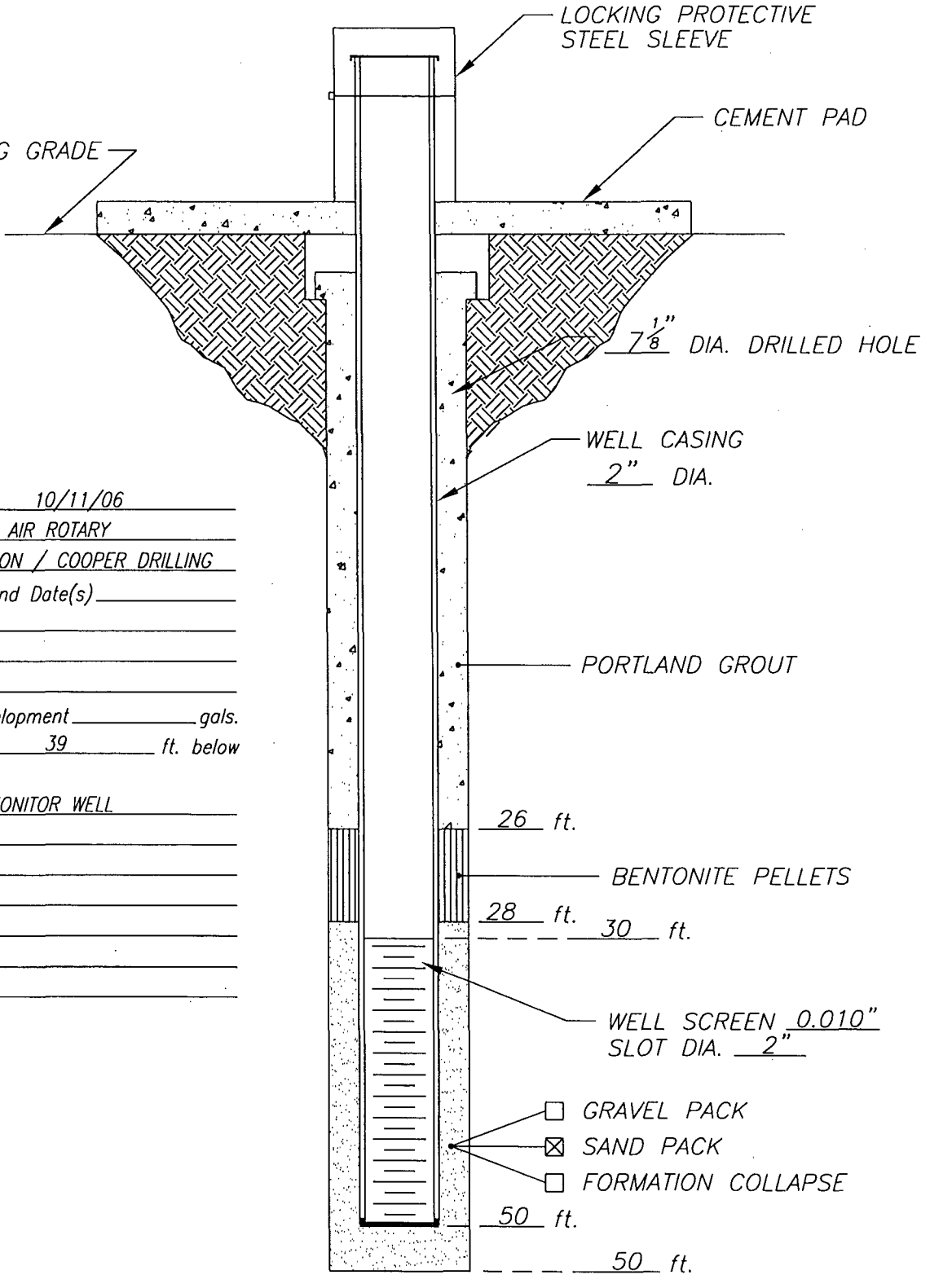
SAMPLE LOG

Boring/Well: SB-6
Project Number: 2646
Client: Rice Engineering
Site Location: EME jct. A-2-1
Location: Lea County, New Mexico
Total Depth 37
Date Installed: 10/12/06

DEPTH (in feet)	OVM	CHLORIDES (in mg/Kg)	SAMPLE DESCRIPTION
3-5	0	250	Tan brown fine grain sand
8-10	0	381	Tan brown fine grain sand
13-15	0	58	Tan/brown large grained sand intermixed with clay
18-20	0	365	Tan calcareous fine grain sand
23-25	0	235	Tan calcareous fine grain sand
28-30	0	333	Tan calcareous fine grain sand
33-35	0	605	Tan calcareous fine grain sand

Boring completed at 37 feet bgs Groundwater encountered at 37 feet

WELL CONSTRUCTION LOG



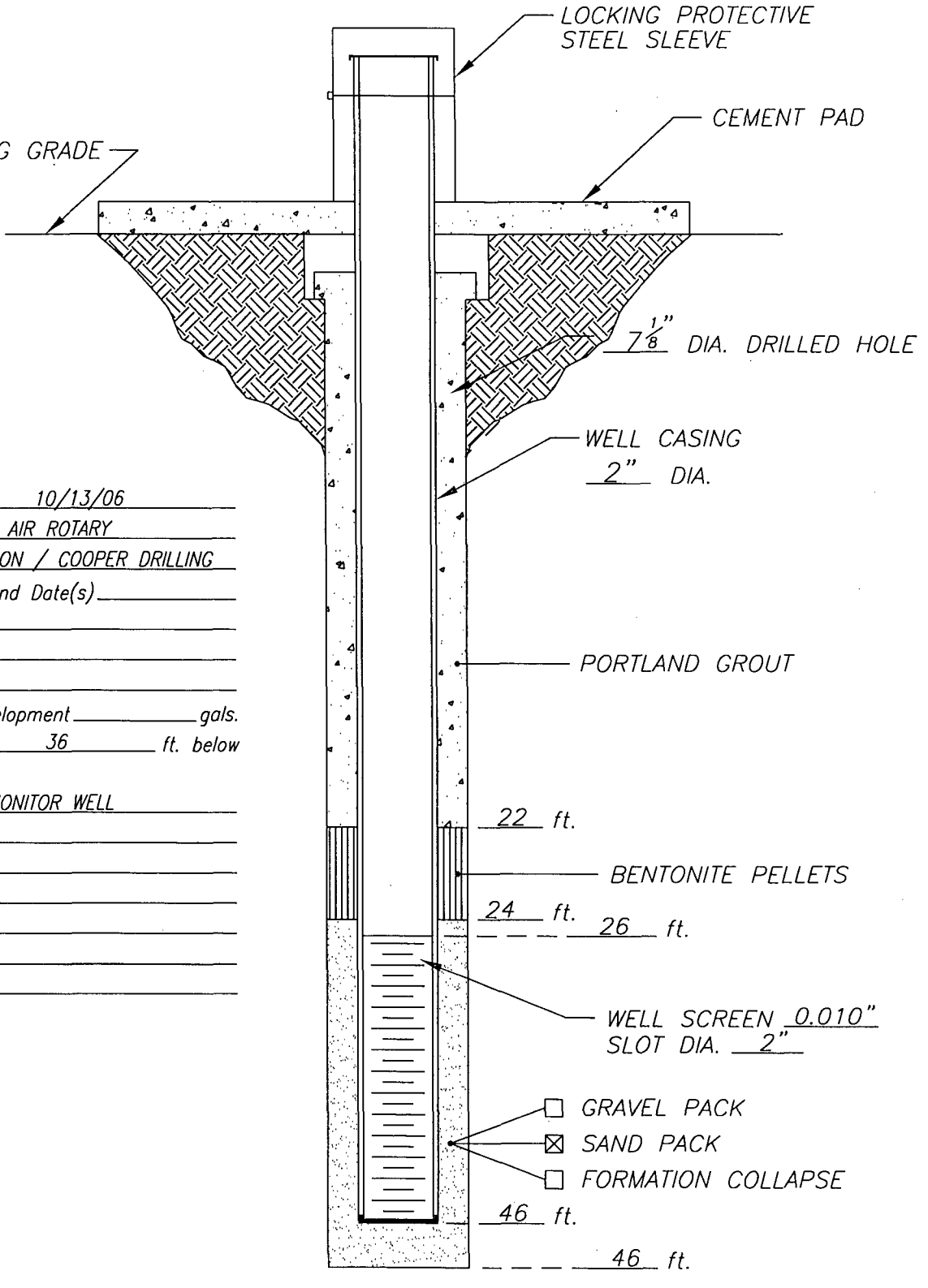
Installation Date(s) 10/11/06
Drilling Method AIR ROTARY
Drilling Contractor HARRISON / COOPER DRILLING
Development Technique(s) and Date(s) _____

Water Removed During Development _____ gals.
Static Depth to Water 39 ft. below Ground Level
Well Purpose MONITOR WELL

Remarks _____

DATE: 11/9/06	CLIENT: RICE OPERATING	WELL NO.
Highlander Environmental	PROJECT: EME jct. A-2-1	MW-1
	LOCATION: LEA COUNTY, NEW MEXICO	

WELL CONSTRUCTION LOG



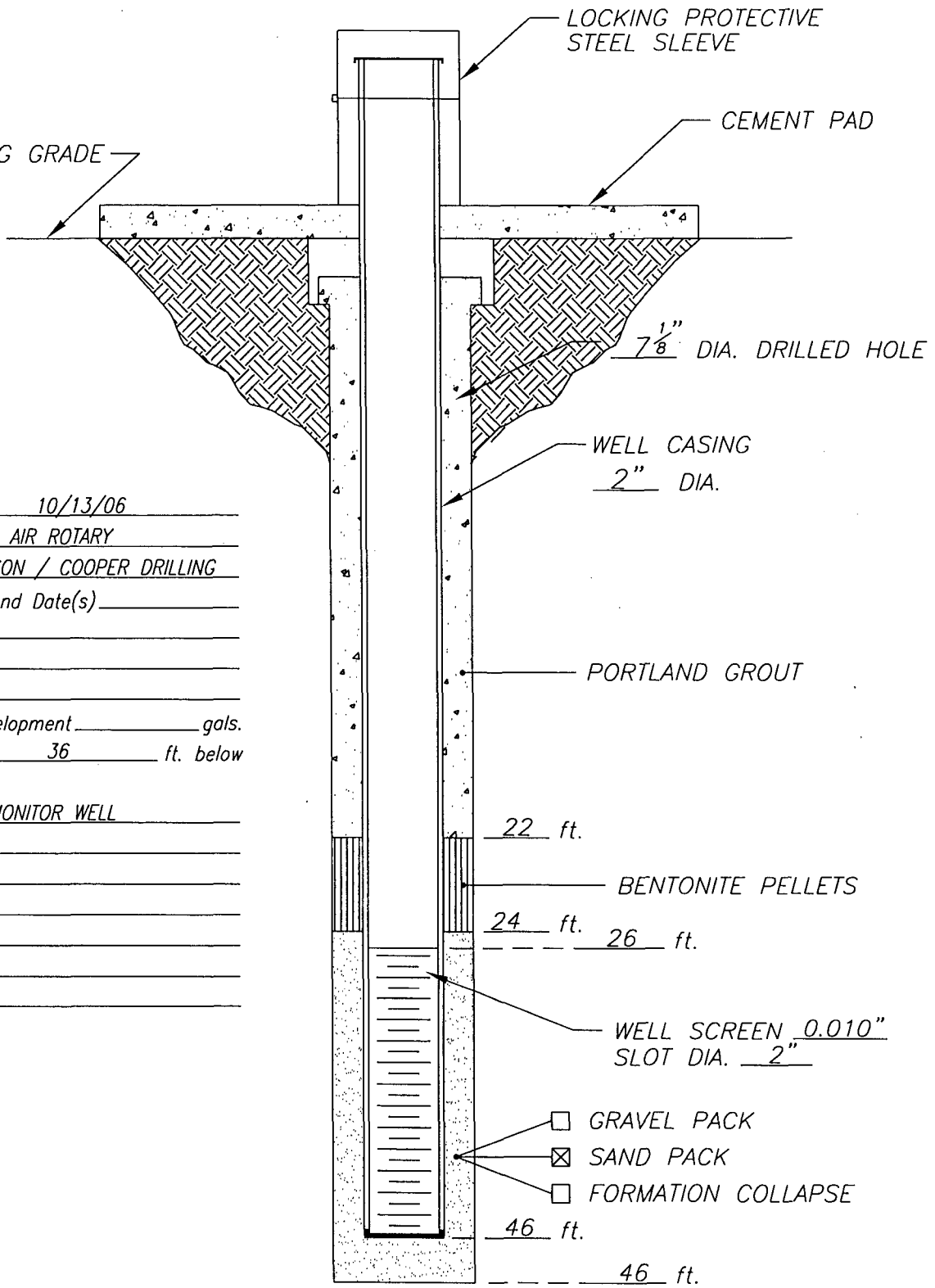
Installation Date(s) 10/13/06
Drilling Method AIR ROTARY
Drilling Contractor HARRISON / COOPER DRILLING
Development Technique(s) and Date(s) _____

Water Removed During Development _____ gals.
Static Depth to Water 36 ft. below Ground Level
Well Purpose MONITOR WELL

Remarks _____

DATE: 11/9/06	CLIENT: RICE OPERATING	WELL NO.
Highlander Environmental	PROJECT: EME jct. A-2-1	MW-2
	LOCATION: LEA COUNTY, NEW MEXICO	

WELL CONSTRUCTION LOG



Installation Date(s) 10/13/06
Drilling Method AIR ROTARY
Drilling Contractor HARRISON / COOPER DRILLING
Development Technique(s) and Date(s) _____

Water Removed During Development _____ gals.
Static Depth to Water 36 ft. below Ground Level
Well Purpose MONITOR WELL

Remarks _____

DATE: 11/9/06	CLIENT: RICE OPERATING	WELL NO.
Highlander Environmental	PROJECT: EME jct. A-2-1	MW-3
	LOCATION: LEA COUNTY, NEW MEXICO	

APPENDIX B

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Tim Reed

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ A-2-1

Project Number: 2646

Location: None Given

Lab Order Number: 6J13019

Report Date: 11/29/06

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 8-10'	6J13019-01	Soil	10/11/06 00:00	10-13-2006 16:20
SB-1 13-15'	6J13019-02	Soil	10/11/06 00:00	10-13-2006 16:20
SB-1 18-20'	6J13019-03	Soil	10/11/06 00:00	10-13-2006 16:20
SB-1 23-25'	6J13019-04	Soil	10/11/06 00:00	10-13-2006 16:20
SB-1 28-30'	6J13019-05	Soil	10/11/06 00:00	10-13-2006 16:20
SB-1 33-35'	6J13019-06	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 3-5'	6J13019-07	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 8-10'	6J13019-08	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 13-15'	6J13019-09	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 18-20'	6J13019-10	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 23-25'	6J13019-11	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 28-30'	6J13019-12	Soil	10/11/06 00:00	10-13-2006 16:20
SB-2 33-35'	6J13019-13	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 3-5'	6J13019-14	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 8-10'	6J13019-15	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 13-15'	6J13019-16	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 18-20'	6J13019-17	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 23-25'	6J13019-18	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 28-30'	6J13019-19	Soil	10/11/06 00:00	10-13-2006 16:20
SB-3 33-35'	6J13019-20	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 3-5'	6J13019-21	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 8-10'	6J13019-22	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 13-15'	6J13019-23	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 18-20'	6J13019-24	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 23-25'	6J13019-25	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 28-30'	6J13019-26	Soil	10/11/06 00:00	10-13-2006 16:20
SB-4 33-35'	6J13019-27	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 3-5'	6J13019-28	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 8-10'	6J13019-29	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 13-15'	6J13019-30	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 18-20'	6J13019-31	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 23-25'	6J13019-32	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 28-30'	6J13019-33	Soil	10/11/06 00:00	10-13-2006 16:20
SB-5 33-35'	6J13019-34	Soil	10/11/06 00:00	10-13-2006 16:20

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-6 3-5'	6J13019-35	Soil	10/11/06 00:00	10-13-2006 16:20
SB-6 8-10'	6J13019-36	Soil	10/11/06 00:00	10-13-2006 16:20
SB-6 13-15'	6J13019-37	Soil	10/11/06 00:00	10-13-2006 16:20
SB-6 18-20'	6J13019-38	Soil	10/11/06 00:00	10-13-2006 16:20
SB-6 23-25'	6J13019-39	Soil	10/11/06 00:00	10-13-2006 16:20
SB-6 28-30'	6J13019-40	Soil	10/11/06 00:00	10-13-2006 16:20
SB-6 33-35'	6J13019-41	Soil	10/11/06 00:00	10-13-2006 16:20

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 8-10' (6J13019-01) Soil									
Benzene	**0.374**	0.0250	mg/kg dry	25	EJ61406	10/14/06	10/16/06	EPA 8021B	
Toluene	**0.983**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.61**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.59**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.573**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*149 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*146 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**214**	10.0	mg/kg dry	1	EJ61502	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	**469**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**45.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**728**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*79.8 %*	*70-130*		"	"	"	"	
SB-1 13-15' (6J13019-02) Soil									
Benzene	**0.147**	0.0250	mg/kg dry	25	EJ61406	10/14/06	10/16/06	EPA 8021B	
Toluene	**0.736**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**4.46**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**8.28**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.990**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*152 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*178 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**732**	10.0	mg/kg dry	1	EJ61502	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	**1590**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**157**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**2480**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*118 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*81.4 %*	*70-130*		"	"	"	"	
SB-1 23-25' (6J13019-04) Soil									
Carbon Ranges C6-C12	**3560**	50.0	mg/kg dry	5	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	**5770**	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**640**	50.0	"	"	"	"	"	"	
Total Hydrocarbons	**9970**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*35.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*19.3 %*	*70-130*		"	"	"	"	*S-06*

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 33-35' (6J13019-06) Soil									
Carbon Ranges C6-C12	**895**	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	**2220**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**188**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**3300**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.6 %*	*70-130*		"	"	"	"	
SB-2 3-5' (6J13019-07) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*84.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.2 %*	*70-130*		"	"	"	"	
SB-2 8-10' (6J13019-08) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.6 %*	*70-130*		"	"	"	"	
SB-2 13-15' (6J13019-09) Soil									
Carbon Ranges C6-C12	**J [5.61]**	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	J
Carbon Ranges C12-C28	**20.5**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**20.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.6 %*	*70-130*		"	"	"	"	

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 3-5' (6J13019-14) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.4 %*	*70-130*		"	"	"	"	
SB-4 3-5' (6J13019-21) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*75.8 %*	*70-130*		"	"	"	"	
SB-5 3-5' (6J13019-28) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.6 %*	*70-130*		"	"	"	"	
SB-5 33-35' (6J13019-34) Soil									
Carbon Ranges C6-C12	**26.8**	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	**202**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**36.7**	10.0	"	"	"	"	"	"	
Total Hydrocarbons	**266**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.2 %*	*70-130*		"	"	"	"	

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed .	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 3-5' (6J13019-35) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ61503	10/15/06	10/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*73.0 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 8-10' (6J13019-01) Soil									
Chloride	**266**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**13.0**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-1 13-15' (6J13019-02) Soil									
Chloride	**349**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**13.7**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-1 18-20' (6J13019-03) Soil									
Chloride	**277**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-1 23-25' (6J13019-04) Soil									
Chloride	**42.5**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**15.5**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-1 28-30' (6J13019-05) Soil									
Chloride	**63.8**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-1 33-35' (6J13019-06) Soil									
Chloride	**596**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**13.8**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-2 3-5' (6J13019-07) Soil									
Chloride	**2980**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**15.4**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-2 8-10' (6J13019-08) Soil									
Chloride	**6170**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**13.0**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-2 13-15' (6J13019-09) Soil									
Chloride	**5320**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**7.9**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 18-20' (6J13019-10) Soil									
Chloride	**2770**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-2 23-25' (6J13019-11) Soil									
Chloride	**5530**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-2 28-30' (6J13019-12) Soil									
Chloride	**3300**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-2 33-35' (6J13019-13) Soil									
Chloride	**2340**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-3 3-5' (6J13019-14) Soil									
Chloride	**85.1**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
% Moisture	**11.6**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-3 8-10' (6J13019-15) Soil									
Chloride	**330**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-3 13-15' (6J13019-16) Soil									
Chloride	**404**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-3 18-20' (6J13019-17) Soil									
Chloride	**425**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-3 23-25' (6J13019-18) Soil									
Chloride	**362**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-3 28-30' (6J13019-19) Soil									
Chloride	**234**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 33-35' (6J13019-20) Soil									
Chloride	**383**	20.0	mg/kg Wet	2	EJ62016	10/20/06	10/22/06	SW 846 9253	
SB-4 3-5' (6J13019-21) Soil									
Chloride	**21.3**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
% Moisture	**6.7**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-4 8-10' (6J13019-22) Soil									
Chloride	**553**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-4 13-15' (6J13019-23) Soil									
Chloride	**851**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-4 18-20' (6J13019-24) Soil									
Chloride	**596**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-4 23-25' (6J13019-25) Soil									
Chloride	**553**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-4 28-30' (6J13019-26) Soil									
Chloride	**638**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-4 33-35' (6J13019-27) Soil									
Chloride	**915**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-5 3-5' (6J13019-28) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
% Moisture	**11.9**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-5 8-10' (6J13019-29) Soil									
Chloride	**42.5**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-5 13-15' (6J13019-30) Soil									
Chloride	**21.3**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-5 18-20' (6J13019-31) Soil									
Chloride	**223**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-5 23-25' (6J13019-32) Soil									
Chloride	**362**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-5 28-30' (6J13019-33) Soil									
Chloride	**479**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-5 33-35' (6J13019-34) Soil									
Chloride	**1000**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
% Moisture	**17.6**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-6 3-5' (6J13019-35) Soil									
Chloride	**223**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
% Moisture	**18.6**	0.1	%	1	EJ61601	10/13/06	10/16/06	% calculation	
SB-6 8-10' (6J13019-36) Soil									
Chloride	**447**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-6 13-15' (6J13019-37) Soil									
Chloride	**723**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-6 18-20' (6J13019-38) Soil									
Chloride	**117**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-6 23-25' (6J13019-39) Soil									
Chloride	**277**	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 28-30' (6J13019-40) Soil									
Chloride	277	20.0	mg/kg Wet	2	EJ62017	10/20/06	10/22/06	SW 846 9253	
SB-6 33-35' (6J13019-41) Soil									
Chloride	117	20.0	mg/kg Wet	2	EJ61414	10/20/06	10/21/06	SW 846 9253	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61406 - EPA 5030C (GC)										
Blank (EJ61406-BLK1)				Prepared: 10/14/06 Analyzed: 10/15/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*32.1*		*ug/kg*	*40.0*		*80.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.5*		*"*	*40.0*		*81.2*	*80-120*			
LCS (EJ61406-BS1)				Prepared & Analyzed: 10/14/06						
Benzene	1.14	0.0250	mg/kg wet	1.25		91.2	80-120			
Toluene	1.03	0.0250	"	1.25		82.4	80-120			
Ethylbenzene	1.14	0.0250	"	1.25		91.2	80-120			
Xylene (p/m)	2.03	0.0250	"	2.50		81.2	80-120			
Xylene (o)	1.04	0.0250	"	1.25		83.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.5*		*ug/kg*	*40.0*		*81.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.7*		*"*	*40.0*		*84.2*	*80-120*			
Calibration Check (EJ61406-CCV1)				Prepared: 10/14/06 Analyzed: 10/15/06						
Benzene	0.0444		mg/kg wet	0.0500		88.8	80-120			
Toluene	0.0412		"	0.0500		82.4	80-120			
Ethylbenzene	0.0413		"	0.0500		82.6	80-120			
Xylene (p/m)	0.0826		"	0.100		82.6	80-120			
Xylene (o)	0.0419		"	0.0500		83.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.0*		*ug/kg*	*40.0*		*82.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.8*		*"*	*40.0*		*87.0*	*80-120*			
Matrix Spike (EJ61406-MS1)	**Source: 6J13005-05**			Prepared: 10/14/06 Analyzed: 10/15/06						
Benzene	1.35	0.0250	mg/kg dry	1.48	ND	91.2	80-120			
Toluene	1.24	0.0250	"	1.48	ND	83.8	80-120			
Ethylbenzene	1.46	0.0250	"	1.48	ND	98.6	80-120			
Xylene (p/m)	2.50	0.0250	"	2.96	ND	84.5	80-120			
Xylene (o)	1.27	0.0250	"	1.48	ND	85.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.4*		*ug/kg*	*40.0*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.4*		*"*	*40.0*		*101*	*80-120*			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61406 - EPA 5030C (GC)										
Matrix Spike Dup (EJ61406-MSD1)	**Source: 6J13005-05**			Prepared: 10/14/06 Analyzed: 10/16/06						
Benzene	1.34	0.0250	mg/kg dry	1.48	ND	90.5	80-120	0.770	20	
Toluene	1.25	0.0250	"	1.48	ND	84.5	80-120	0.832	20	
Ethylbenzene	1.41	0.0250	"	1.48	ND	95.3	80-120	3.40	20	
Xylene (p/m)	2.58	0.0250	"	2.96	ND	87.2	80-120	3.15	20	
Xylene (o)	1.22	0.0250	"	1.48	ND	82.4	80-120	4.04	20	
Surrogate: a,a,a-Trifluorotoluene	*33.2*		*ug/kg*	*40.0*		*83.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		*"*	*40.0*		*98.0*	*80-120*			
Batch EJ61502 - Solvent Extraction (GC)										
Blank (EJ61502-BLK1)				Prepared & Analyzed: 10/15/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.3*		*mg/kg*	*50.0*		*90.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.1*		*"*	*50.0*		*82.2*	*70-130*			
LCS (EJ61502-BS1)				Prepared & Analyzed: 10/15/06						
Carbon Ranges C6-C12	486	10.0	mg/kg wet	500		97.2	75-125			
Carbon Ranges C12-C28	474	10.0	"	500		94.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	960	10.0	"	1000		96.0	75-125			
Surrogate: 1-Chlorooctane	*58.0*		*mg/kg*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.7*		*"*	*50.0*		*87.4*	*70-130*			
Calibration Check (EJ61502-CCV1)				Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	203		mg/kg	250		81.2	80-120			
Carbon Ranges C12-C28	237		"	250		94.8	80-120			
Total Hydrocarbons	440		"	500		88.0	80-120			
Surrogate: 1-Chlorooctane	*47.8*		*"*	*50.0*		*95.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.4*		*"*	*50.0*		*76.8*	*70-130*			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61502 - Solvent Extraction (GC)										
Matrix Spike (EJ61502-MS1)	**Source: 6J13015-01**			Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	527	10.0	mg/kg dry	567	ND	92.9	75-125			
Carbon Ranges C12-C28	507	10.0	"	567	ND	89.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1030	10.0	"	1130	ND	91.2	75-125			
Surrogate: 1-Chlorooctane	*56.9*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.3*		"	*50.0*		*86.6*	*70-130*			
Matrix Spike Dup (EJ61502-MSD1)	**Source: 6J13015-01**			Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	525	10.0	mg/kg dry	567	ND	92.6	75-125	0.380	20	
Carbon Ranges C12-C28	513	10.0	"	567	ND	90.5	75-125	1.18	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1040	10.0	"	1130	ND	92.0	75-125	0.966	20	
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.8*		"	*50.0*		*85.6*	*70-130*			
Batch EJ61503 - Solvent Extraction (GC)										
Blank (EJ61503-BLK1)				Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*47.4*		*mg/kg*	*50.0*		*94.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.9*		"	*50.0*		*85.8*	*70-130*			
LCS (EJ61503-BS1)				Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	487	10.0	mg/kg wet	500		97.4	75-125			
Carbon Ranges C12-C28	477	10.0	"	500		95.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	964	10.0	"	1000		96.4	75-125			
Surrogate: 1-Chlorooctane	*58.6*		*mg/kg*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.4*		"	*50.0*		*88.8*	*70-130*			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61503 - Solvent Extraction (GC)										
Calibration Check (EJ61503-CCV1)				Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	201		mg/kg	250		80.4	80-120			
Carbon Ranges C12-C28	240		"	250		96.0	80-120			
Total Hydrocarbons	441		"	500		88.2	80-120			
Surrogate: 1-Chlorooctane	*53.2*		"	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.4*		"	*50.0*		*80.8*	*70-130*			
Matrix Spike (EJ61503-MS1)	**Source: 6J13019-08**			Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	574	10.0	mg/kg dry	575	ND	99.8	75-125			
Carbon Ranges C12-C28	572	10.0	"	575	ND	99.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1150	10.0	"	1150	ND	100	75-125			
Surrogate: 1-Chlorooctane	*59.5*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.7*		"	*50.0*		*87.4*	*70-130*			
Matrix Spike Dup (EJ61503-MSD1)	**Source: 6J13019-08**			Prepared: 10/15/06 Analyzed: 10/16/06						
Carbon Ranges C6-C12	554	10.0	mg/kg dry	575	ND	96.3	75-125	3.55	20	
Carbon Ranges C12-C28	535	10.0	"	575	ND	93.0	75-125	6.68	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1090	10.0	"	1150	ND	94.8	75-125	5.36	20	
Surrogate: 1-Chlorooctane	*58.3*		*mg/kg*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.7*		"	*50.0*		*87.4*	*70-130*			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61414 - Water Extraction										
Blank (EJ61414-BLK1)				Prepared: 10/14/06 Analyzed: 10/21/06						
Chloride	ND	20.0	mg/kg Wet							
LCS (EJ61414-BS1)				Prepared: 10/14/06 Analyzed: 10/21/06						
Chloride	91.5	5.00	mg/kg Wet	100		91.5	80-120			
Matrix Spike (EJ61414-MS1)	**Source: 6J12008-01**			Prepared: 10/19/06 Analyzed: 10/21/06						
Chloride	510	20.0	mg/kg Wet	500	0.00	102	80-120			
Matrix Spike Dup (EJ61414-MSD1)	**Source: 6J12008-01**			Prepared: 10/19/06 Analyzed: 10/21/06						
Chloride	521	20.0	mg/kg Wet	500	0.00	104	80-120	2.13	20	
Reference (EJ61414-SRM1)				Prepared: 10/14/06 Analyzed: 10/21/06						
Chloride	50.0	5.00	mg/kg Wet	50.0		100	80-120			
Batch EJ61601 - General Preparation (Prep)										
Blank (EJ61601-BLK1)				Prepared: 10/13/06 Analyzed: 10/16/06						
% Solids	100		%							
Duplicate (EJ61601-DUP1)	**Source: 6J13004-01**			Prepared: 10/13/06 Analyzed: 10/16/06						
% Solids	74.4		%		74.5			0.134	20	
Duplicate (EJ61601-DUP2)	**Source: 6J13017-06**			Prepared: 10/13/06 Analyzed: 10/16/06						
% Solids	90.4		%		89.9			0.555	20	
Duplicate (EJ61601-DUP3)	**Source: 6J13021-05**			Prepared: 10/13/06 Analyzed: 10/16/06						
% Solids	89.8		%		90.8			1.11	20	

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61601 - General Preparation (Prep)										
Duplicate (EJ61601-DUP4)	**Source: 6J14001-02**			Prepared: 10/13/06 Analyzed: 10/16/06						
% Solids	85.1		%		85.1			0.00	20	
Batch EJ62016 - Water Extraction										
Blank (EJ62016-BLK1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	ND	20.0	mg/kg Wet							
LCS (EJ62016-BS1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120			
Matrix Spike (EJ62016-MS1)	**Source: 6J13019-13**			Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	2870	20.0	mg/kg Wet	500	2340	106	80-120			
Matrix Spike Dup (EJ62016-MSD1)	**Source: 6J13019-13**			Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	2870	20.0	mg/kg Wet	500	2340	106	80-120	0.00	20	
Reference (EJ62016-SRM1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	50.0		mg/kg	50.0		100	80-120			
Batch EJ62017 - Water Extraction										
Blank (EJ62017-BLK1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	ND	20.0	mg/kg Wet							
LCS (EJ62017-BS1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	91.5	5.00	mg/kg Wet	100		91.5	80-120			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ62017 - Water Extraction										
Matrix Spike (EJ62017-MS1)	**Source: 6J13019-33**			Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	978	20.0	mg/kg Wet	500	479	99.8	80-120			
Matrix Spike Dup (EJ62017-MSD1)	**Source: 6J13019-33**			Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	989	20.0	mg/kg Wet	500	479	102	80-120	1.12	20	
Reference (EJ62017-SRM1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	51.0		mg/kg	50.0		102	80-120			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 11/29/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

PAGE: 1 OF: 5

CLIENT NAME: Rice Engineering

SITE MANAGER: Tim Reed

PROJECT NO.: 2646

PROJECT NAME: A-2-1

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
(61809) -01	10/11/06		S			SB-1 (8-10)	1				✓	✓
-02	10/11/06		S			SB-1 (13-15)	1				✓	✓
-03	10/11/06		S			SB-1 (18-20)	1				✓	✓
-04	10/11/06		S			SB-1 (23-25)	1				✓	✓
-05	10/11/06		S			SB-1 (28-30)	1				✓	✓
-06	10/11/06		S			SB-1 (33-35)	1				✓	✓
-07	10/11/06		S			SB-2 (3-5)	1				✓	✓
-08	10/11/06		S			SB-2 (8-10)	1				✓	✓
-09	10/11/06		S			SB-2 (13-15)	1				✓	✓
-10	10/11/06		S			SB-2 (18-20)	1				✓	✓

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8020/602	MTBE 8020/602	TPH 8015 MOD.	TX1006	TPH 418.1	TPH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	HCl	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8082/608	Pest. 608/8081	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
✓		✓													✓			
✓		✓													✓			
															✓			
		✓													✓			
															✓			
		✓													✓			
		✓													✓			
		✓													✓			
		✓													✓			
															✓			

RELINQUISHED BY: (Signature) Matt Arrington — Date: 10/13/06 Time: 4:25

RECEIVED BY: (Signature) — Date: — Time:

RELINQUISHED BY: (Signature) — Date: — Time:

RECEIVED BY: (Signature) — Date: — Time:

RELINQUISHED BY: (Signature) — Date: — Time:

RECEIVED BY: (Signature) — Date: — Time:

SAMPLED BY: (Print & Sign) Jeffrey Kindle — Date: 10/11/06 Time: 1800

SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS AIRBILL #: OTHER:

RECEIVING LABORATORY: Environmental Lab of TX
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) [signature]
DATE: 10/13/06 TIME: 4:20

HIGHLANDER CONTACT PERSON: Tim Reed

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 4oz glass 3.0 w/labels

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS:

Please fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

CLIENT NAME: Rio Engineering

SITE MANAGER: Tim Reed

PROJECT NO.: 2646

PROJECT NAME: A-2-1

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
(25) 1309												
-11	10/11/06		S			SB-2 (23-25)	1				✓	✓
12	10/11/06		S			SB-2 (28-30)	1				✓	✓
13	10/11/06		S			SB-2 (33-35)	1				✓	✓
14	10/11/06		S			SB-3 (3-5)	1				✓	✓
15	10/11/06		S			SB-3 (8-10)	1				✓	✓
16	10/11/06		S			SB-3 (13-15)	1				✓	✓
17	10/11/06		S			SB-3 (18-20)	1				✓	✓
18	10/11/06		S			SB-3 (23-25)	1				✓	✓
19	10/11/06		S			SB-3 (28-30)	1				✓	✓
20	10/11/06		S			SB-3 (33-35)	1				✓	✓

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8020/602	
MTBE 8020/602	
TPH 8015 Mod. TX1005	✓
418.1	
PAH 8270	
RCRA Metals Ag As Ba Cd Cr Pb Hg Se	
TCLP Metals Ag As Ba Cd Cr Pb Hg Se	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GCMS Vol. 8240/8260/624	
GCMS Semi Vol. 8270/625	
PCB's 8080/608	
Pest. 608/8080	
BOD, TSS, pH, TDS, Chloride	✓
Gamma Spec.	
Alpha Beta (Air)	
PLM (Asbestos)	

RELINQUISHED BY: (Signature) Date: 10/13/06 Time: 4:30

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) Jaffrey Kindle Date: 10/11/06 Time: 1600

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Environmental Lab of Tx

ADDRESS:

CITY: Odessa STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Date: 10/13/06 Time: 4:30

HIGHLANDER CONTACT PERSON: Tim Reed

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS:

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

CLIENT NAME: Rio Engineering
SITE MANAGER: Tim Reed
PROJECT NO.: 2646
PROJECT NAME: A-2-1

LAB I.D. NUMBER (Lab use only) 12019	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
-21	10/11/06		S			SB-4 (3-5)	1				✓	✓
-22	10/11/06		S			SB-4 (8-10)	1				✓	✓
-23	10/11/06		S			SB-4 (13-15)	1				✓	✓
-24	10/11/06		S			SB-4 (18-20)	1				✓	✓
-25	10/11/06		S			SB-4 (23-25)	1				✓	✓
-26	10/11/06		S			SB-4 (28-30)	1				✓	✓
-27	10/11/06		S			SB-4 (33-35)	1				✓	✓
-28	10/11/06		S			SB-5 (3-5)	1				✓	✓
-29	10/11/06		S			SB-5 (8-10)	1				✓	✓
-30	10/11/06		S			SB-5 (13-15)	1				✓	✓

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	MTBE 8260/624	TX1005	8015 MOD.	TPH 418.1	TPH 1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	PCB	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/808	BOD, TSS, pH, TDS, (Chloride)	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
																✓			

RELINQUISHED BY: (Signature) Matt Dunn	Date: 10/13/06 Time: 4:20	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RECEIVING LABORATORY: Environmental Lab of Tx		RECEIVED BY: (Signature) Karen Kelly	
ADDRESS: CITY: Odessa STATE: TX ZIP: CONTACT: PHONE:		DATE: 10/13/06 TIME: 4:20	

SAMPLED BY: (Print & Sign) Jeffrey K. Duley Kyle Date: 10/11/06 Time: 1200

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

HIGHLANDER CONTACT PERSON: Tim Reed

Results by:

PUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS:

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

CLIENT NAME: Rio Engineering
SITE MANAGER: Tim Reed
PROJECT NO.: 2646
PROJECT NAME: A-2-1

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
(LT 13097) -31	10/11/06		S			SB-5 (18-20)	1				✓	✓
-32	10/11/06		S			SB-5 (23-25)	1				✓	✓
-33	10/11/06		S			SB-5 (28-30)	1				✓	✓
-34	10/11/06		S			SB-5 (33-35)	1				✓	✓
-35	10/12/06		S			SB-6 (3-5)	1				✓	✓
-36	10/12/06		S			SB-6 (8-10)	1				✓	✓
-37	10/12/06		S			SB-6 (13-15)	1				✓	✓
-38	10/12/06		S			SB-6 (18-20)	1				✓	✓
-39	10/12/06		S			SB-6 (23-25)	1				✓	✓
-40	10/12/06		S			SB-6 (28-30)	1				✓	✓

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8020/602 | MTBE 8020/602 | 8015 MOD. TX1005 | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Cr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8082/608 | Pest. 608/808 | HOLD, TDS, pH, TPH, (Chloride) | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos)

RELINQUISHED BY: (Signature) Date: 10/13/06 Time: 4:30
RECEIVED BY: (Signature) Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) J.B. Kindle Date: 10/11/06 Time: 1800

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: Environmental Lab of TX
ADDRESS:
CITY: Odessa STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: 10/13/06 TIME: 4:20

HIGHLANDER CONTACT PERSON: Tim Reed

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS:

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

PAGE: 5 OF: 5

CLIENT NAME: Rice Engineering

SITE MANAGER: Tim Reed

PROJECT NO.: 2646

PROJECT NAME: A-2-1

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
605 13209 -41	10/12/06		S			SB-6 (33-35)	1				✓	✓

ANALYSIS REQUEST (Circle or Specify Method No.)

EPA 8020/602	MTBE 8020/602	TPH 418.1 8015 Mod. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	VOAP Volatiles	TCLP Semi Volatiles	PCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	EDD, TDS, pH, TPS, Chloride ✓	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)

RELINQUISHED BY: (Signature) Date: 10/13/06 Time: 1120

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) Tom Kinsley Date: 10/12/06 Time: 1300

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Environmental Lab of TX

ADDRESS:

CITY: Odessa STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: 10/13/06 TIME: 0420

HIGHLANDER CONTACT PERSON: Tim Reed

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid (S-Soil) SL-Sludge O-Other

REMARKS:

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ent: Highlander

te/ Time: 10/13/06 4:20

b ID #: 10513017

tials: UK

Sample Receipt Checklist

					Client Initials
	Temperature of container/ cooler?	Yes	No	3.0 °C	
2	Shipping container in good condition?	Yes	No		
3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
5	Chain of Custody present?	Yes	No		
6	Sample instructions complete of Chain of Custody?	Yes	No		
7	Chain of Custody signed when relinquished/ received?	Yes	No		
8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
9	Container label(s) legible and intact?	Yes	No	Not Applicable	
10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11	Containers supplied by ELOT?	Yes	No		
12	Samples in proper container/ bottle?	Yes	No	See Below	
13	Samples properly preserved?	Yes	No	See Below	
14	Sample bottles intact?	Yes	No		
15	Preservations documented on Chain of Custody?	Yes	No		
16	Containers documented on Chain of Custody?	Yes	No		
17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
18	All samples received within sufficient hold time?	Yes	No	See Below	
19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Tim Reed

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ A-2-1

Project Number: 2646

Location: Monument, NM

Lab Order Number: 6J16005

Report Date: 10/23/06

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2 3-5	6J16005-01	Soil	10/13/06 00:00	10-16-2006 15:15
MW-2 8-10	6J16005-02	Soil	10/13/06 00:00	10-16-2006 15:15
MW-2 13-15	6J16005-03	Soil	10/13/06 00:00	10-16-2006 15:15
MW-2 18-20	6J16005-04	Soil	10/13/06 00:00	10-16-2006 15:15
MW-2 23-25	6J16005-05	Soil	10/13/06 00:00	10-16-2006 15:15
MW-2 28-30	6J16005-06	Soil	10/13/06 00:00	10-16-2006 15:15
MW-2 33-35	6J16005-07	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 3-5	6J16005-08	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 8-10	6J16005-09	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 13-15	6J16005-10	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 18-20	6J16005-11	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 23-25	6J16005-12	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 28-30	6J16005-13	Soil	10/13/06 00:00	10-16-2006 15:15
MW-3 33-35	6J16005-14	Soil	10/13/06 00:00	10-16-2006 15:15

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 3-5 (6J16005-01) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ61704	10/17/06	10/17/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.0 %*	*70-130*		"	"	"	"	
MW-2 8-10 (6J16005-02) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ61704	10/17/06	10/17/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.4 %*	*70-130*		"	"	"	"	
MW-2 33-35 (6J16005-07) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ61704	10/17/06	10/17/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.8 %*	*70-130*		"	"	"	"	
MW-3 3-5 (6J16005-08) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ61704	10/17/06	10/17/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.8 %*	*70-130*		"	"	"	"	
MW-3 8-10 (6J16005-09) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ61704	10/17/06	10/17/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.8 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 33-35 (6J16005-14) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ61704	10/17/06	10/17/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.6 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 3-5 (6J16005-01) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
% Moisture	**9.0**	0.1	%	1	EJ61701	10/16/06	10/17/06	% calculation	
MW-2 8-10 (6J16005-02) Soil									
Chloride	**808**	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
% Moisture	**9.4**	0.1	%	1	EJ61701	10/16/06	10/17/06	% calculation	
MW-2 13-15 (6J16005-03) Soil									
Chloride	**723**	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
MW-2 18-20 (6J16005-04) Soil									
Chloride	**638**	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
MW-2 23-25 (6J16005-05) Soil									
Chloride	**702**	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
MW-2 28-30 (6J16005-06) Soil									
Chloride	**1020**	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
MW-2 33-35 (6J16005-07) Soil									
Chloride	**1490**	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
% Moisture	**18.4**	0.1	%	1	EJ61701	10/16/06	10/17/06	% calculation	
MW-3 3-5 (6J16005-08) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
% Moisture	**22.6**	0.1	%	1	EJ61701	10/16/06	10/17/06	% calculation	
MW-3 8-10 (6J16005-09) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EJ62018	10/20/06	10/22/06	SW 846 9253	
% Moisture	**20.0**	0.1	%	1	EJ61701	10/16/06	10/17/06	% calculation	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 13-15 (6J16005-10) Soil									
Chloride	**266**	20.0	mg/kg Wet	2	EJ61705	10/16/06	10/17/06	SW 846 9253	
MW-3 18-20 (6J16005-11) Soil									
Chloride	**213**	20.0	mg/kg Wet	2	EJ61705	10/16/06	10/17/06	SW 846 9253	
MW-3 23-25 (6J16005-12) Soil									
Chloride	**617**	20.0	mg/kg Wet	2	EJ61705	10/16/06	10/17/06	SW 846 9253	
MW-3 28-30 (6J16005-13) Soil									
Chloride	**545**	20.0	mg/kg Wet	2	EJ61705	10/16/06	10/17/06	SW 846 9253	
MW-3 33-35 (6J16005-14) Soil									
Chloride	**815**	20.0	mg/kg Wet	2	EJ61705	10/16/06	10/17/06	SW 846 9253	
% Moisture	**15.4**	0.1	%	1	EJ61701	10/16/06	10/17/06	% calculation	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61704 - Solvent Extraction (GC)										
Blank (EJ61704-BLK1)				Prepared & Analyzed: 10/17/06						
Carbon Ranges C6-C10	ND	10.0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	"							
Total Carbon Range C6-C28	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.8*		*mg/kg*	*50.0*		*91.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		"	*50.0*		*86.8*	*70-130*			
LCS (EJ61704-BS1)				Prepared & Analyzed: 10/17/06						
Carbon Ranges C6-C10	486	10.0	mg/kg wet	500		97.2	75-125			
Carbon Ranges >C10-C28	400	10.0	"	500		80.0	75-125			
Total Carbon Range C6-C28	886	10.0	"	1000		88.6	75-125			
Surrogate: 1-Chlorooctane	*56.4*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.5*		"	*50.0*		*87.0*	*70-130*			
Calibration Check (EJ61704-CCV1)				Prepared & Analyzed: 10/17/06						
Carbon Ranges C6-C10	200		mg/kg	250		80.0	80-120			
Carbon Ranges >C10-C28	245		"	250		98.0	80-120			
Total Carbon Range C6-C28	445		"	500		89.0	80-120			
Surrogate: 1-Chlorooctane	*49.3*		"	*50.0*		*98.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.6*		"	*50.0*		*81.2*	*70-130*			
Matrix Spike (EJ61704-MS1)	**Source: 6J16005-01**			Prepared & Analyzed: 10/17/06						
Carbon Ranges C6-C10	578	10.0	mg/kg dry	549	ND	105	75-125			
Carbon Ranges >C10-C28	484	10.0	"	549	ND	88.2	75-125			
Total Carbon Range C6-C28	1060	10.0	"	1100	ND	96.4	75-125			
Surrogate: 1-Chlorooctane	*60.3*		*mg/kg*	*50.0*		*121*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.5*		"	*50.0*		*93.0*	*70-130*			
Matrix Spike Dup (EJ61704-MSD1)	**Source: 6J16005-01**			Prepared & Analyzed: 10/17/06						
Carbon Ranges C6-C10	547	10.0	mg/kg dry	549	ND	99.6	75-125	5.51	20	
Carbon Ranges >C10-C28	444	10.0	"	549	ND	80.9	75-125	8.62	20	
Total Carbon Range C6-C28	991	10.0	"	1100	ND	90.1	75-125	6.73	20	
Surrogate: 1-Chlorooctane	*56.8*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.8*		"	*50.0*		*85.6*	*70-130*			

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61701 - General Preparation (Prep)										
Blank (EJ61701-BLK1)				Prepared: 10/16/06 Analyzed: 10/17/06						
% Solids	100		%							
Duplicate (EJ61701-DUP1)	**Source: 6J16003-01**			Prepared: 10/16/06 Analyzed: 10/17/06						
% Solids	93.3		%		93.9			0.641	20	
Duplicate (EJ61701-DUP2)	**Source: 6J16008-02**			Prepared: 10/16/06 Analyzed: 10/17/06						
% Solids	86.3		%		84.9			1.64	20	
Batch EJ61705 - Water Extraction										
Blank (EJ61705-BLK1)				Prepared: 10/16/06 Analyzed: 10/17/06						
Chloride	ND	10.0	mg/kg Wet							
LCS (EJ61705-BS1)				Prepared: 10/16/06 Analyzed: 10/17/06						
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120			
Matrix Spike (EJ61705-MS1)	**Source: 6J16008-01**			Prepared: 10/16/06 Analyzed: 10/17/06						
Chloride	340	10.0	mg/kg Wet	250	117	89.2	80-120			
Matrix Spike Dup (EJ61705-MSD1)	**Source: 6J16008-01**			Prepared: 10/16/06 Analyzed: 10/17/06						
Chloride	340	20.0	mg/kg Wet	250	117	89.2	80-120	0.00	20	
Reference (EJ61705-SRM1)				Prepared: 10/16/06 Analyzed: 10/17/06						
Chloride	55.3		mg/kg	50.0		111	80-120			
Batch EJ62018 - Water Extraction										
Blank (EJ62018-BLK1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	ND	20.0	mg/kg Wet							

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Rice/ A-2-1
Project Number: 2646
Project Manager: Tim Reed

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ62018 - Water Extraction										
LCS (EJ62018-BS1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	93.6	5.00	mg/kg Wet	100		93.6	80-120			
Matrix Spike (EJ62018-MS1)	**Source: 6J13018-01**			Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	1190	20.0	mg/kg Wet	500	681	102	80-120			
Matrix Spike Dup (EJ62018-MSD1)	**Source: 6J13018-01**			Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	1210	20.0	mg/kg Wet	500	681	106	80-120	1.67	20	
Reference (EJ62018-SRM1)				Prepared: 10/20/06 Analyzed: 10/22/06						
Chloride	51.0		mg/kg	50.0		102	80-120			

Highlander Environmental Corp.	Project: Rice/ A-2-1	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2646	
Midland TX, 79705	Project Manager: Tim Reed	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 10/23/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: R.U. Engineering
SITE MANAGER: Tim Reed
PROJECT NO.: 2646
PROJECT NAME: A-2-1 (Monument, NM)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	8015 MOD. TX1005 TPH 418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
116005-01	10/13/06		S		✓	MW-2 (3-5)	1				✓	✓			✓											✓			
-02	10/13/06		S		✓	MW-2 (8-10)	1				✓	✓			✓											✓			
-03	10/13/06		S		✓	MW-2 (13-15)	1				✓	✓														✓			
-04	10/13/06		S		✓	MW-2 (18-20)	1				✓	✓														✓			
-05	10/13/06		S		✓	MW-2 (23-25)	1				✓	✓														✓			
-06	10/13/06		S		✓	MW-2 (28-30)	1				✓	✓														✓			
-07	10/13/06		S		✓	MW-2 (33-35)	1				✓	✓			✓											✓			
-08	10/13/06		S		✓	MW-3 (3-5)	1				✓	✓			✓											✓			
-09	10/13/06		S		✓	MW-3 (8-10)	1				✓	✓			✓											✓			
-10	10/13/06		S		✓	MW-3 (13-15)	1				✓	✓														✓			

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Sign) Jeffrey Kindle Date: October 13, 2006 Time: 1800

RELINQUISHED BY: (Signature) Date: 10/16/06 Time: 3:15
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
HIGHLANDER CONTACT PERSON: Tim Reed
Results by:
RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Environmental Lab of Tx
ADDRESS:
CITY: Odessa STATE: Tx ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Cindy Kelly
DATE: 10/16/06 TIME: 3:15

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS: 3.0 w/ labels 40 vials

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

CLIENT NAME: Rice Engineering
SITE MANAGER: Tim Reed
PROJECT NO.: 2646
PROJECT NAME: A-2-1 (Monument, NM)

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 8015 MOD. TX1005 / 418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
61 160005																													
-11	10/13/06		S		✓	MW-3 (18-20)	1				✓	✓														✓			
12	10/13/06		S		✓	MW-3 (23-25)	1				✓	✓														✓			
13	10/13/06		S		✓	MW-3 (28-30)	1				✓	✓														✓			
14	10/13/06		S		✓	MW-3 (33-35)	1				✓	✓			✓											✓			

RELINQUISHED BY: (Signature) Date: ____ Time: ____
RECEIVED BY: (Signature) Date: ____ Time: ____
SAMPLED BY: (Print & Sign) Jeffrey Kindle Date: October 13, 2006 Time: 1300

RELINQUISHED BY: (Signature) Date: 10/16/06 Time: 3:15
RECEIVED BY: (Signature) Date: ____ Time: ____
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: ____ HAND DELIVERED UPS OTHER: ____

RELINQUISHED BY: (Signature) Date: ____ Time: ____
RECEIVED BY: (Signature) Date: ____ Time: ____
Results by:

RECEIVING LABORATORY: Environmental Labs of TX
ADDRESS: ____
CITY: Odessa STATE: TX ZIP: ____
CONTACT: ____ PHONE: ____
RECEIVED BY: (Signature) Darcie Wolf
DATE: 10/16/06 TIME: 3:15
HIGHLANDER CONTACT PERSON: Tim Reed
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:
MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other
REMARKS: 3.0 4oz glass w/ labels

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander

Date/ Time: 10/16/06 3:15

Lab ID #: 635160

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	3.0 °C	
#2	Shipping container in good condition?	~~Yes~~	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	~~Not Present~~	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	~~Not Present~~	
#5	Chain of Custody present?	~~Yes~~	No		
#6	Sample instructions complete of Chain of Custody?	~~Yes~~	No		
#7	Chain of Custody signed when relinquished/ received?	~~Yes~~	No		
#8	Chain of Custody agrees with sample label(s)?	~~Yes~~	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	~~Yes~~	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	~~Yes~~	No		
#11	Containers supplied by ELOT?	~~Yes~~	No		
#12	Samples in proper container/ bottle?	~~Yes~~	No	See Below	
#13	Samples properly preserved?	~~Yes~~	No	See Below	
#14	Sample bottles intact?	~~Yes~~	No		
#15	Preservations documented on Chain of Custody?	~~Yes~~	No		
#16	Containers documented on Chain of Custody?	~~Yes~~	No		
#17	Sufficient sample amount for indicated test(s)?	~~Yes~~	No	See Below	
#18	All samples received within sufficient hold time?	~~Yes~~	No	See Below	
#19	VOC samples have zero headspace?	~~Yes~~	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event