

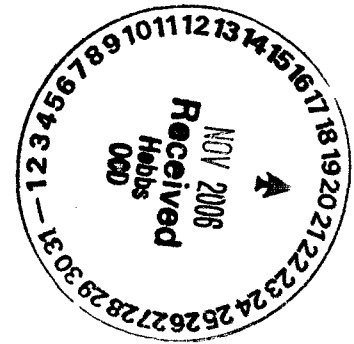


Highlander Environmental Corp.

Midland, Texas

November 16, 2006

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
Hobbs, New Mexico 88240



RE: Assessment and Work Plan for the CrownQuest Operating, LLC, Water Transfer Line Leak , Unit Letter O, Section 32 Township 13 South, Range 33 East, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by CrownQuest Operating, LLC (CrownQuest) to assess the soil impact from a transfer line leak (water disposal line), located in Unit Letter O, Section 32, Township 13 South, Range 33 East, Lea County, New Mexico. The well site coordinates are N 33.14274°, W 103.63372°. The State of New Mexico C-141 (Initial) is included in Appendix D. The spill locations are shown on Figure 1.

Background

On May 18, 2006, a 1960's vintage buried cement transfer line from a water collection battery developed a produced water leak around a steel valve. This vintage cement transfer lines have been abandoned and replaced with a new poly transfer lines to prevent future leaks. Once the leak was discovered, all free water was removed using a vacuum truck. The volume released was unknown and approximately 15 barrels of water was recovered. The release impacted an area east of the leak. The spill location is shown on Figures 1 and 2.

Groundwater and Regulatory

The spill area is located in Section 32, Township 13 South, Range 33 East. The State of New Mexico Well Reports did show two water wells in Section 32 with an average depth to water at 135' below surface. Wells in Section 31 and 34 had reported average depths to water of 135' and 115', respectively. Water wells were also shown in Sections 3, 4, 5 and 6, Township 14 South, Range 33 East with average groundwater depths of approximately 102' to 133' below surface. In addition, the USGS data base

reported a depth to water at 134' in Section 6, Township 14 South, Range 33 East. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Assessment

On September 21 and 22, 2006, Highlander personnel inspected and sampled the spill areas. During the inspection of the Site, it was noted that there was an area east of the release, which appeared to be stressed with no vegetative growth. The area west of the release appeared to be a former tank battery pad with no tanks, vessel or equipment on the pad. A 1996 aerial photograph shows an active tank battery where the former tank pad was observed. In the aerial photograph, the area east of the facility shows what appears to be a spill, with vegetative kill area, which is similar in size and shape to what was observed during the inspection. A copy of the aerial photograph is included in Appendix B.

An air rotary drilling rig was used to assess the spill area. A total of fourteen (14) boreholes were installed at the Site. The stressed area measured approximately 250' with a width of 30' to 80'. Boreholes BH-2, BH-3, BH-4, BH-5 and BH-6 were installed in center of the stressed area to define the vertical extents. The remaining boreholes were installed for horizontal extents. The stressed area and borehole locations are shown on Figure 2. Soil samples were collected from selected depth intervals and analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO, chloride by EPA method 300.0 and benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 1. The laboratory reports are shown in Appendix C.

Soil Sample Results

Boreholes (BH-1, BH-2 and BH-3) were selected for TPH and BTEX analyses. Referring to Table 1, the TPH and BTEX did not exceed the RRAL in the samples from 0-1' below surface. However, the Site did show evidence of chloride impact. As shown in the Figure 3 (Cross Section A to A'), the chloride impact was found deeper the vicinity of the line leak (BH-2). Chloride concentrations >3,000 mg/kg were found at a depth of approximately 30' below surface and decreased with depth below 500 mg/kg at 60' below surface. BH-3, BH-4 and BH-5 also showed chloride impact >3,000 mg/kg to depths of 10.0', 1.0' and 1.0', respectively, which decreased with depth. Figures 4 and 5 show the north and south cross section of the Site. Figures 6-8 show the areal distribution of



chloride impact in the soils. The graphs (chloride concentrations verses depth) for BH-3 and BH-4 are shown in Appendix C.

Conclusions

From the review of the historical aerial photograph and soil boring performed, it appears that the line leak occurred in an old spill area, and that the deepest chloride impact was confined to the immediate area of the line leak. The remainder of the impact can be attributed to the operation of the former tank battery. In addition, the existing 3.5 miles of 1960's vintage cement transfer lines have been replaced with new poly transfer lines to prevent future leaks.

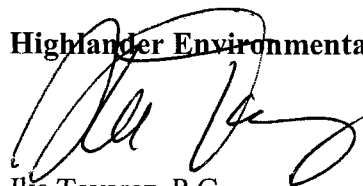
Work Plan/Proposed Remedial Activity

CrownQuest proposes to excavate the soils down to a depth of 3.0' below surface in a 40' x 80' area where the leak occurred, as shown on Figure 8. The 40' x 80' area encompasses the area where chloride concentrations exceeded 3000 mg/kg to a depth of 10' or greater. The excavated soil will be hauled to an approved disposal facility. Once removed, the excavation will be lined with a 40 mil impervious, synthetic liner to encapsulate the impacted subsurface soil and prevent the migration (movement) of the residual chloride. To ensure proper capping, the area will need some preparation for the installation of the liner. The total area prepared for capping will measure approximately 40' x 80' for proper coverage of the edges. If necessary, approximately 6" of sand will be placed on the bottom of the excavation to prevent damage to the liner if caliche (rock) formation is exposed. Once the liner is installed, the remainder of the excavation will be backfilled with clean fill material.

The area outside of the cap footprint has historical chloride impact, limited to depths less than 10' below surface. In order to facilitate closure of this site, CrownQuest proposes that the area will be tilled and soil amendments added to prepare the soil for reseeded.

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

Highlander Environmental Corp.



Ike Tavarez, P.G.
Project Manager/Senior Geologist

cc: Luke Dunn - CrownQuest



TABLES

Table 1
Crown Quest Operating L.L.C.
Transfer Line Leak
Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	CS-C12	Tri (mg/ft)	CS-C15	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
BH-1	9/21/2006	0-1	<10.0	124.0	124.0	124.0	<0.025	<0.025	<0.025	<0.025	766
		3-4	-	-	-	-	-	-	-	-	1,330
		5-6	-	-	-	-	-	-	-	-	893
		7-8	-	-	-	-	-	-	-	-	1,230
		10-11	-	-	-	-	-	-	-	-	1,700
		15-16	-	-	-	-	-	-	-	-	1,490
		20-21	-	-	-	-	-	-	-	-	723
		25-26	-	-	-	-	-	-	-	-	170
BH-2	9/21/2006	0-1	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	7,130
		3-4	-	-	-	-	-	-	-	-	3,510
		5-6	-	-	-	-	-	-	-	-	8,080
		10-11	-	-	-	-	-	-	-	-	4,890
		15-16	-	-	-	-	-	-	-	-	6,590
		20-21	-	-	-	-	-	-	-	-	4,680
		30-31	-	-	-	-	-	-	-	-	3,190
		40-41	-	-	-	-	-	-	-	-	2,340
		50-51	-	-	-	-	-	-	-	-	851
		60-61	-	-	-	-	-	-	-	-	383
BH-3	9/21/2006	0-1	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	7,490
		3-4	-	-	-	-	-	-	-	-	4,680
		5-6	-	-	-	-	-	-	-	-	4,150
		9-10	-	-	-	-	-	-	-	-	2,980
		15-16	-	-	-	-	-	-	-	-	2,550
		20-21	-	-	-	-	-	-	-	-	1,060
		30-31	-	-	-	-	-	-	-	-	1,060
		35-36	-	-	-	-	-	-	-	-	893
		40-41	-	-	-	-	-	-	-	-	617
BH-4	9/21/2006	0-1	-	-	-	-	-	-	-	-	3,620
		3-4	-	-	-	-	-	-	-	-	1,020
		5-6	-	-	-	-	-	-	-	-	1,020
		9-10	-	-	-	-	-	-	-	-	1,280
		20-21	-	-	-	-	-	-	-	-	936

(-) Not Analyzed

Table 1
Crown Quest Operating L.L.C.
Transfer Line Leak
Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	THM (mg/l)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			C6-C13	C1-C5	Total					
BH-5	9/21/2006	0-1	-	-	-	-	-	-	-	3,620
		3-4	-	-	-	-	-	-	-	718
		6-7	-	-	-	-	-	-	-	851
		12-13	-	-	-	-	-	-	-	936
		20-21	-	-	-	-	-	-	-	1190
BH-6	9/22/2006	0-1	-	-	-	-	-	-	-	7,440
		3-4	-	-	-	-	-	-	-	1,170
		5-6	-	-	-	-	-	-	-	1,060
		10-11	-	-	-	-	-	-	-	191
BH-7	9/22/2006	0-1	-	-	-	-	-	-	-	489
		3-4	-	-	-	-	-	-	-	1,620
		5-6	-	-	-	-	-	-	-	1,910
		10-11	-	-	-	-	-	-	-	2,070
		15-16	-	-	-	-	-	-	-	1,970
		20-21	-	-	-	-	-	-	-	489
BH-8	9/22/2006	0-1	-	-	-	-	-	-	-	<20.0
		5-6	-	-	-	-	-	-	-	532
		10-11	-	-	-	-	-	-	-	63.8
		15-16	-	-	-	-	-	-	-	128
BH-9	9/22/2006	0-1	-	-	-	-	-	-	-	702
		3-4	-	-	-	-	-	-	-	830
		5-6	-	-	-	-	-	-	-	617
		10-11	-	-	-	-	-	-	-	1,190
		15-16	-	-	-	-	-	-	-	702
BH-10	9/22/2006	0-1	-	-	-	-	-	-	-	64
		3-4	-	-	-	-	-	-	-	2,340
		5-6	-	-	-	-	-	-	-	723
		10-11	-	-	-	-	-	-	-	362
		15-16	-	-	-	-	-	-	-	723

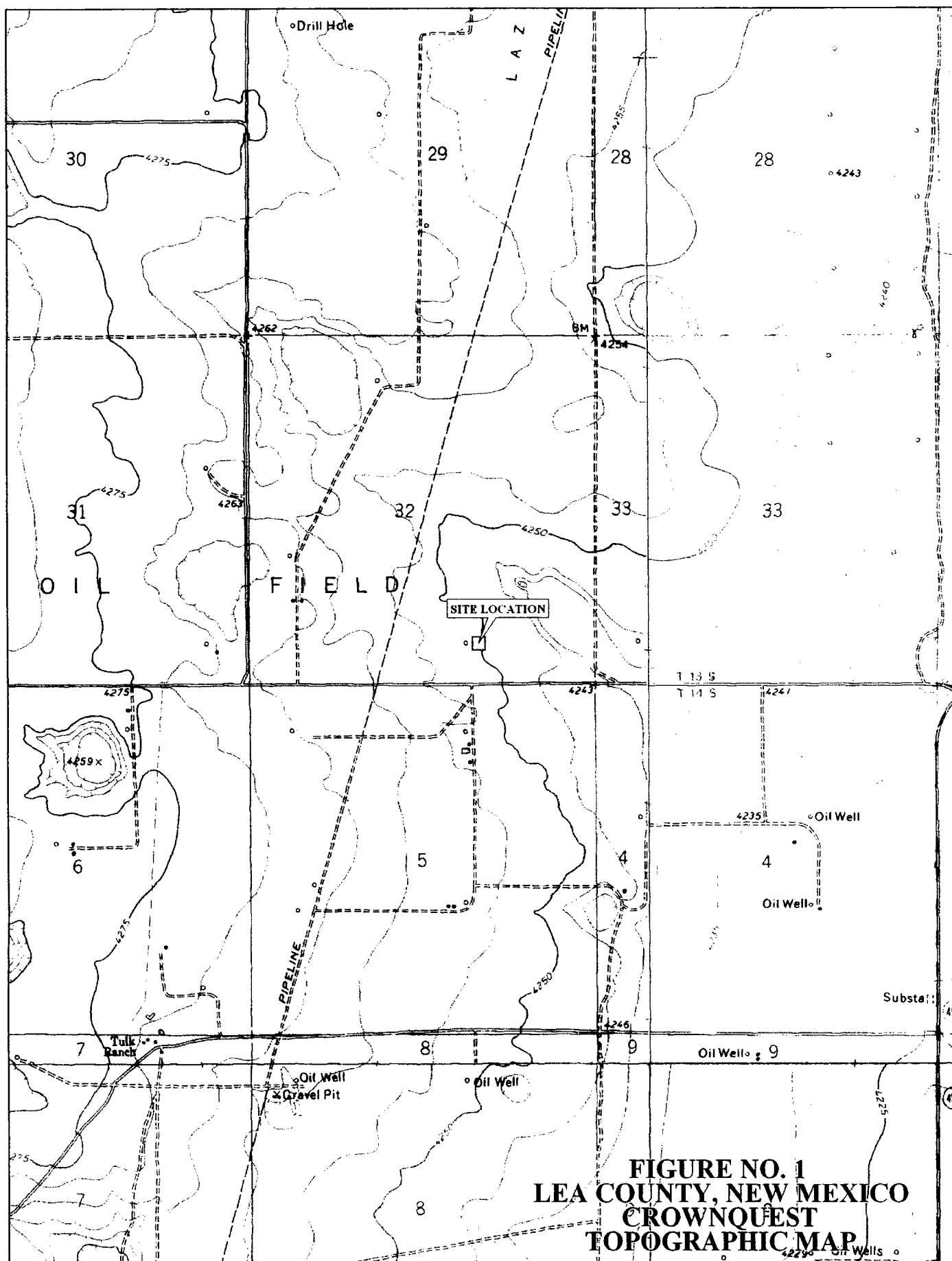
(-) Not Analyzed

Table 1
Crown Quest Operating L.L.C.
Transfer Line Leak
Lea County, NM

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			C6-C12	C13-C15	Total					
BH-11	9/22/2006	0-1	-	-	-	-	-	-	-	<20.0
		3-4	-	-	-	-	-	-	-	2,770
		5-6	-	-	-	-	-	-	-	1,380
		10-11	-	-	-	-	-	-	-	1,910
		15-16	-	-	-	-	-	-	-	63.8
BH-12	9/22/2006	0-1	-	-	-	-	-	-	-	<20.0
		2-3	-	-	-	-	-	-	-	808
		3-4	-	-	-	-	-	-	-	787
		5-6	-	-	-	-	-	-	-	351
		10-11	-	-	-	-	-	-	-	<20.0
BH-13	9/22/2006	0-1	-	-	-	-	-	-	-	553
		3-4	-	-	-	-	-	-	-	1,980
		5-6	-	-	-	-	-	-	-	277
		10-11	-	-	-	-	-	-	-	223
BH-14	9/22/2006	0-1	-	-	-	-	-	-	-	<20.0
		3-4	-	-	-	-	-	-	-	95.7
		5-6	-	-	-	-	-	-	-	42.5

(-) Not Analyzed

FIGURES



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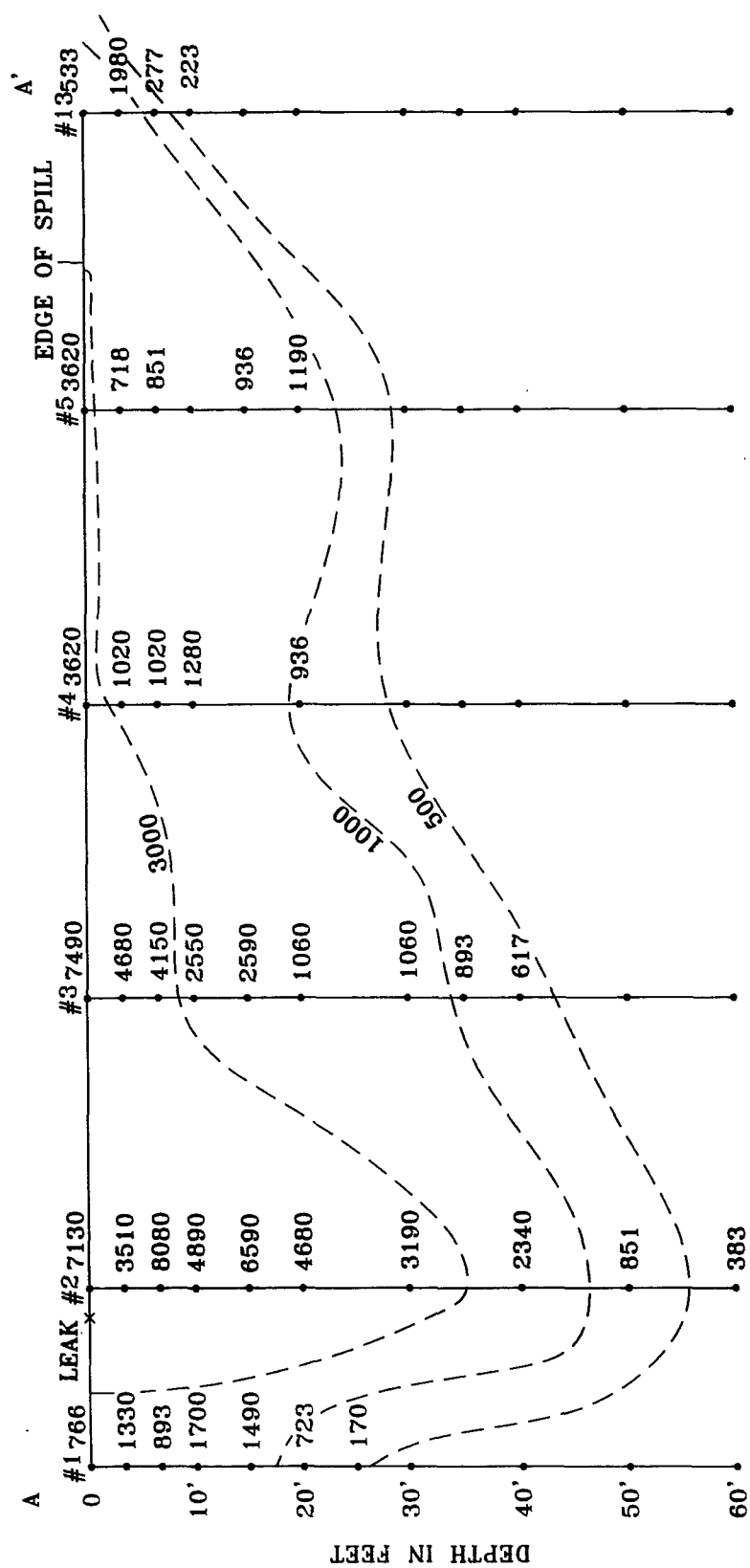


FIGURE NO. 3

LEA COUNTY, NEW MEXICO

CROWNQUEST
TRANSFER LINE LEAK
CHLORIDE CROSS SECTION IN (mg/kg)

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/13/06
DWN. BY: JJ
FILE: C:\CROWNQUEST\3987
CROSS SEC. POL.3

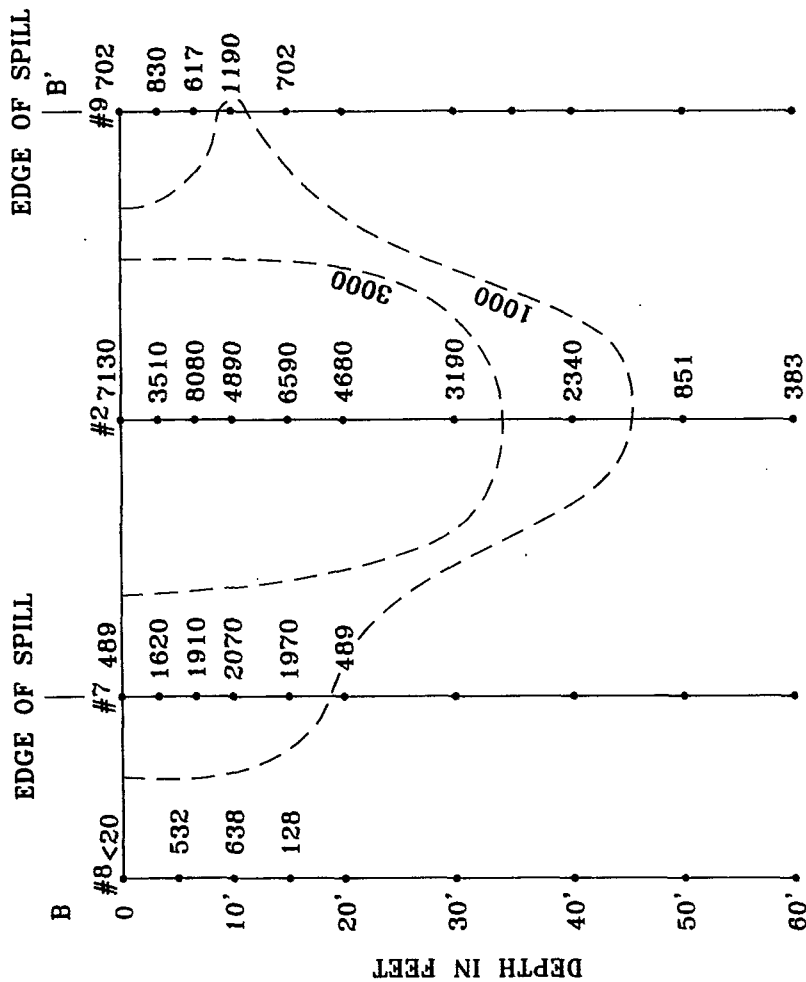


FIGURE NO. 4

LEA COUNTY, NEW MEXICO

CROWNQUEST
TRANSFER LINE LEAK
CHLORIDE CROSS SECTION IN (mg/kg)

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/13/06
OWN. BY: JJ
FILE: CROWNQUEST/067
CROSS SEC. FILE



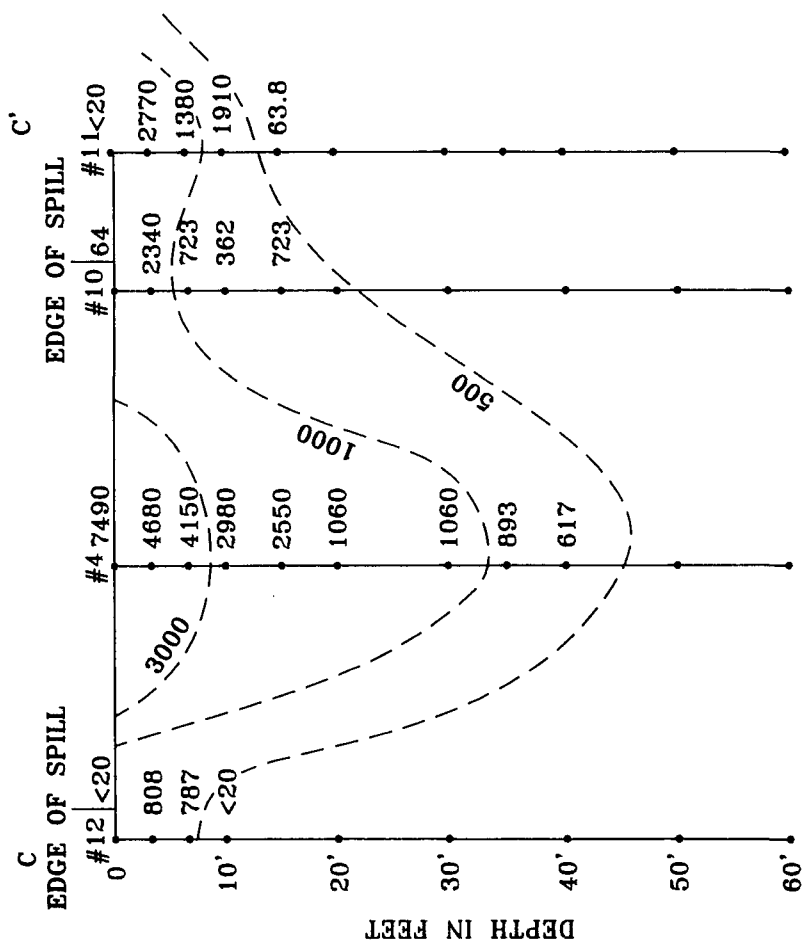


FIGURE NO. 5

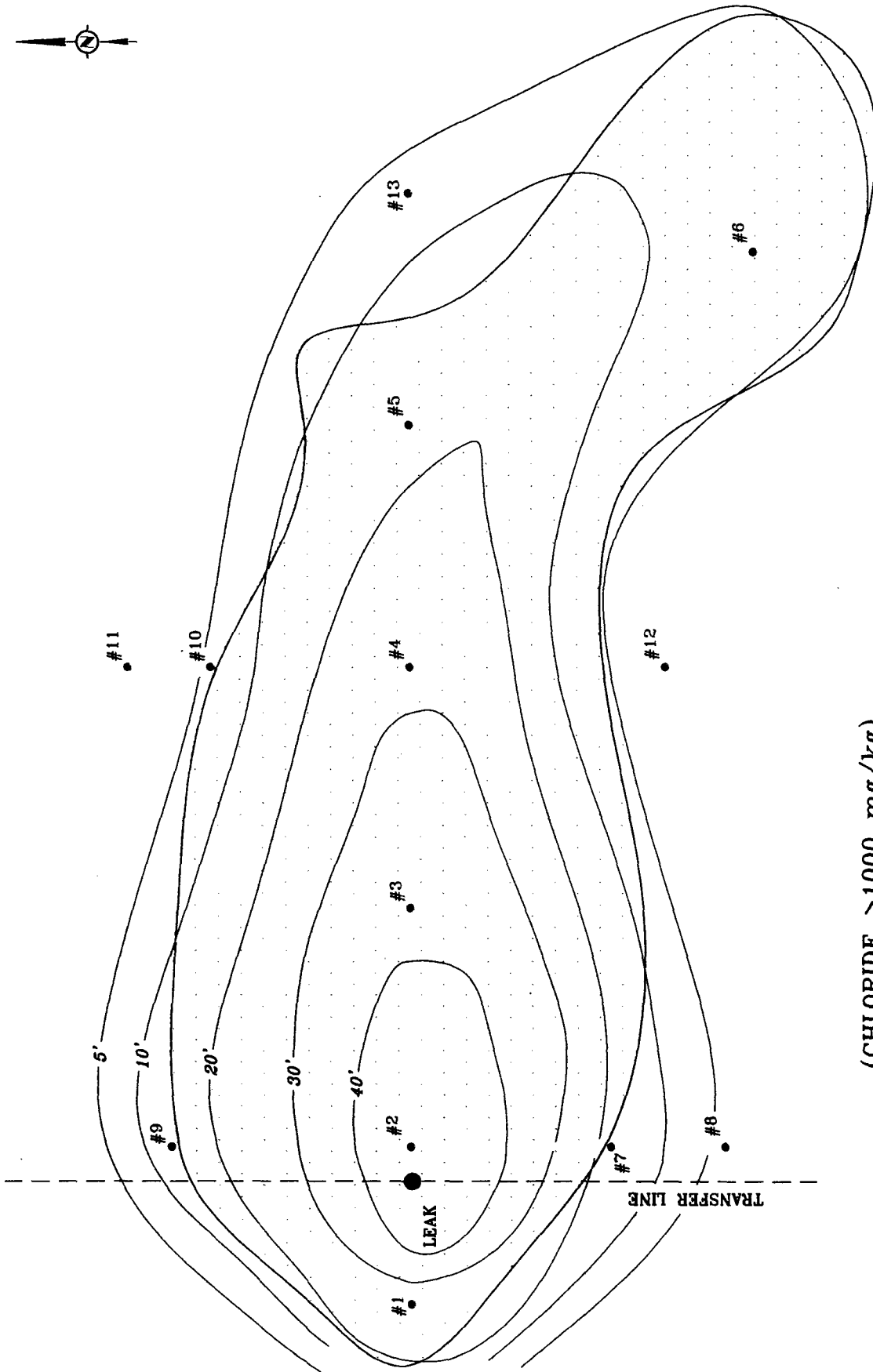
LEA COUNTY, NEW MEXICO

CROWNQUEST
TRANSFER LINE LEAK
CHLORIDE CROSS SECTION IN (mg/kg)

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/13/06
DWN. BY: JJ
FILE: C:\CROWNQUEST\3887
CROSS SEC. PG. 3

0 20'



(CHLORIDE >1000 mg/kg)
(CHLORIDE <3000 mg/kg)

— DEPTHS (FT.)

■ SPILL AREA

• SAMPLE LOCATIONS (BOREHOLES)

FIGURE NO. 6

LEA COUNTY, NEW MEXICO

CROWNQUEST
TRANSFER LINE LEAK
CHLORIDE IMPACT MAP

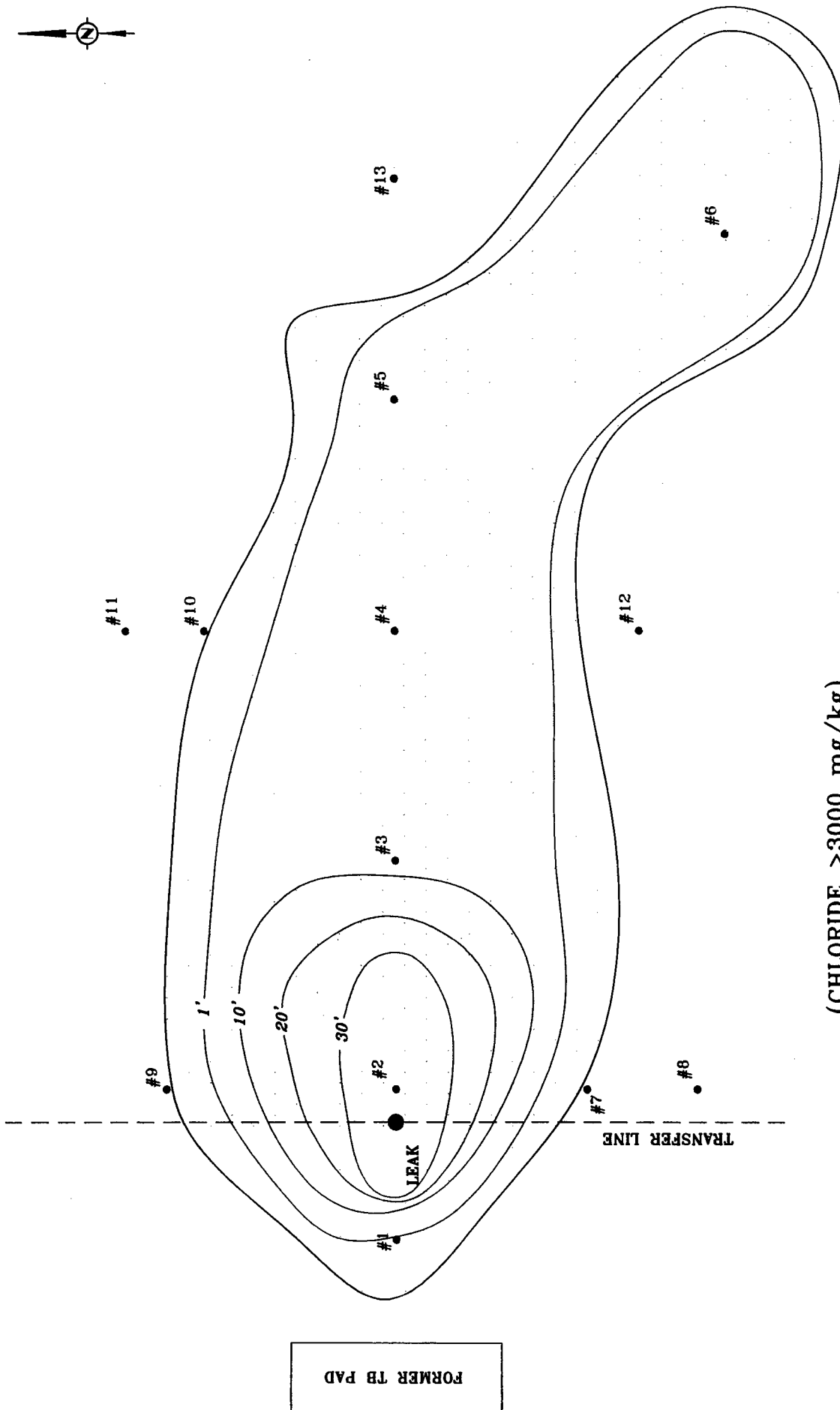
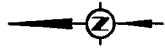
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
10/11/06

DWN. BY:
JJ

FILE:
C:\CROWNQUEST\3897
LEA\CHLORIDE IMPACT MAP

NOT TO SCALE



FORMER TB PAD

(CHLORIDE >3000 mg/kg)

— DEPTHS (FT.)

□ SPILL AREA

• SAMPLE LOCATIONS (BOREHOLES)

FIGURE NO. 7

LEA COUNTY, NEW MEXICO

CROWNQUEST
TRANSFER LINE LEAK
CHLORIDE IMPACT MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
10/11/06

DRAWN BY:
JU

FILE:
C:\CROWNQUEST\1007
CROWNQUEST.MXD

NOT TO SCALE

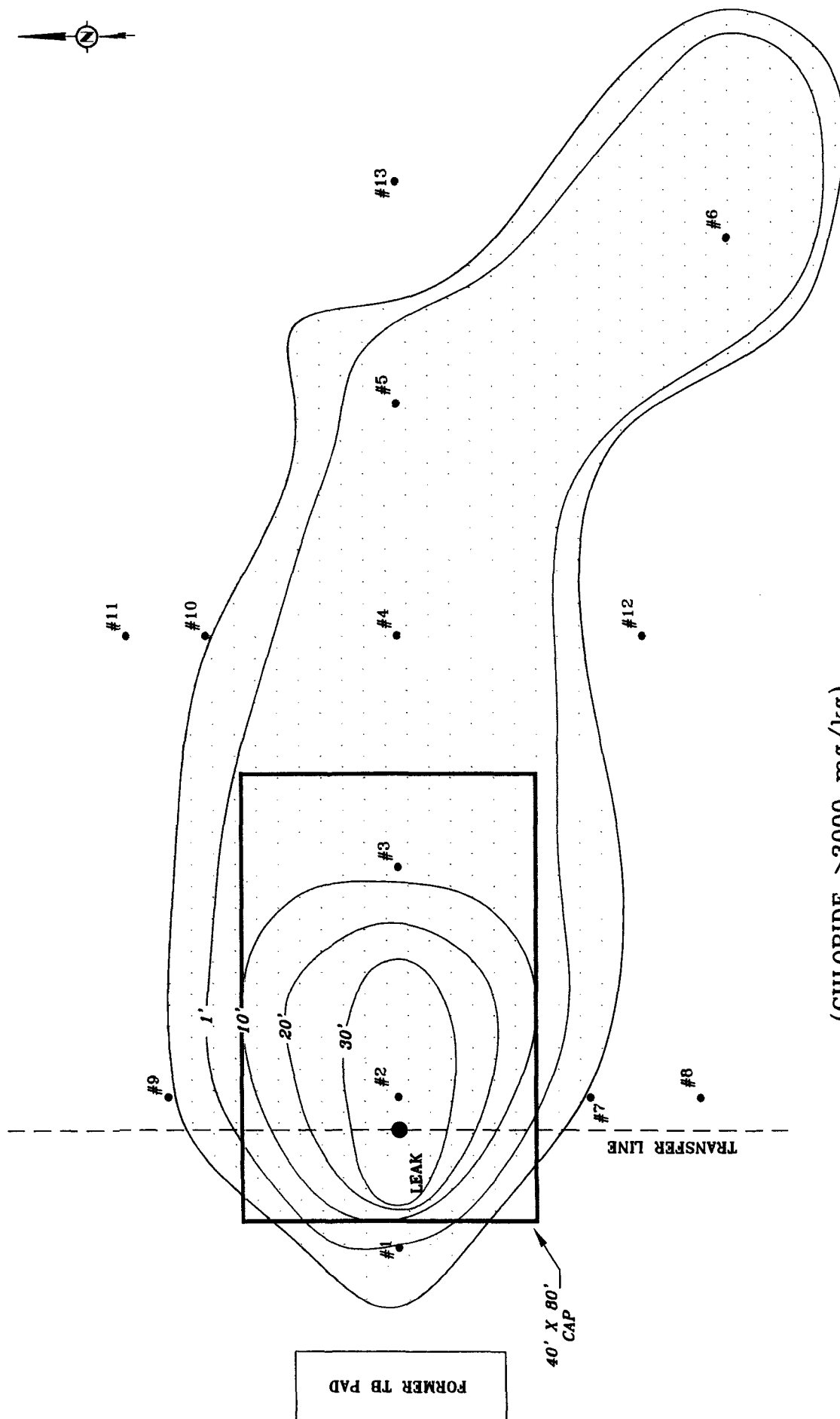
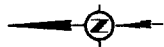


FIGURE NO. 8

LEA COUNTY, NEW MEXICO

CROWNQUEST
TRANSFER LINE LEAK
CHLORIDE IMPACT MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
10/11/06

DRAWN BY:
JJ

FILE:
C:\CROWNQUEST\3867
LOCATION\TBLINK LINE

— DEPTHS (FT.)

SPILL AREA

• SAMPLE LOCATIONS (BOREHOLES)

NOT TO SCALE

APPENDIX A

Groundwater Data

Water Well Data
Average Depth to Groundwater (ft)
Crown Quest Operating - Transfer Line Leak

12 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

12 South 33 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

12 South 34 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

13 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

13 South 33 East

6	5	4	3	2	1
7	8	9	95	10	11
18	17	16	15	14	13
155	19	20	21	22	23
	135	110	104	85	24
30	29	28	27	26	25
31	32	135	33	34	35
135	SITE		115	87	36

13 South 34 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

14 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

14 South 33 East

6	134	5	4	3	2
133	125	130	102	100	80
7	8	9	10	11	12
144	120	110	110	90	
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

14 South 34 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

- 88** New Mexico State Engineers Well Reports
- 105** USGS Well Reports
- 90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)

Township: 13S Range: 33E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) _____ (Last) _____ ☐ Non-Domestic ☐ Domestic
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 10/13/2006

(Depth Water in Feet)


Bsn	Tw	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	13S	33E	09				1	95	95	95
L	13S	33E	10				1	95	95	95
L	13S	33E	11				1	80	80	80
L	13S	33E	18				1	155	155	155
L	13S	33E	20				1	135	135	135
L	13S	33E	21				1	110	110	110
L	13S	33E	22				4	97	110	104
L	13S	33E	23				1	85	85	85
L	13S	33E	26				3	80	95	85
L	13S	33E	28				2	100	125	113
L	13S	33E	31				1	135	135	135
L	13S	33E	32				2	135	135	135
L	13S	33E	34				4	105	125	115
L	13S	33E	35				4	80	95	87

Record Count: 27

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 14S Range: 33E Sections:

NAD27 X: Y: Zone:  Search Radius:

County:  Basin:  Number:  Suffix: 

Owner Name: (First) _____ (Last) _____ ☐ Non-Domestic ☐ Domestic
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 10/13/2006

(Depth Water in Feet)

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
L	14S	33E	01				1	80	80	80
L	14S	33E	02				2	100	100	100
L	14S	33E	03				3	85	110	102
L	14S	33E	04				1	130	130	130
L	14S	33E	05				1	125	125	125
L	14S	33E	06				3	130	135	133
L	14S	33E	07				1	144	144	144
L	14S	33E	08				1	120	120	120
L	14S	33E	09				2	110	110	110
L	14S	33E	10				1	110	110	110
L	14S	33E	11				1	90	90	90
L	14S	33E	13				1	80	80	80
L	14S	33E	14				2	100	100	100
L	14S	33E	16				3	105	110	108
L	14S	33E	17				2	110	130	120
L	14S	33E	19				1	158	158	158
L	14S	33E	22				3	80	95	85
L	14S	33E	23				2	58	100	79
L	14S	33E	26				2	125	125	125
L	14S	33E	27				2	144	144	144
L	14S	33E	28				2	110	110	110
L	14S	33E	29				2	115	115	115
L	14S	33E	32				1	110	110	110
L	14S	33E	34				4	110	122	116
L	14S	33E	35				3	105	130	113

Record Count: 47

Water
ResourcesNational Water Information
System: Web InterfaceData Category:
Ground WaterGeographic Area:
New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 330729103384401

Save file of selected sites to local disk for future upload**USGS 330729103384401 14S.33E.06.44143****Available data for this site** Ground-water: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

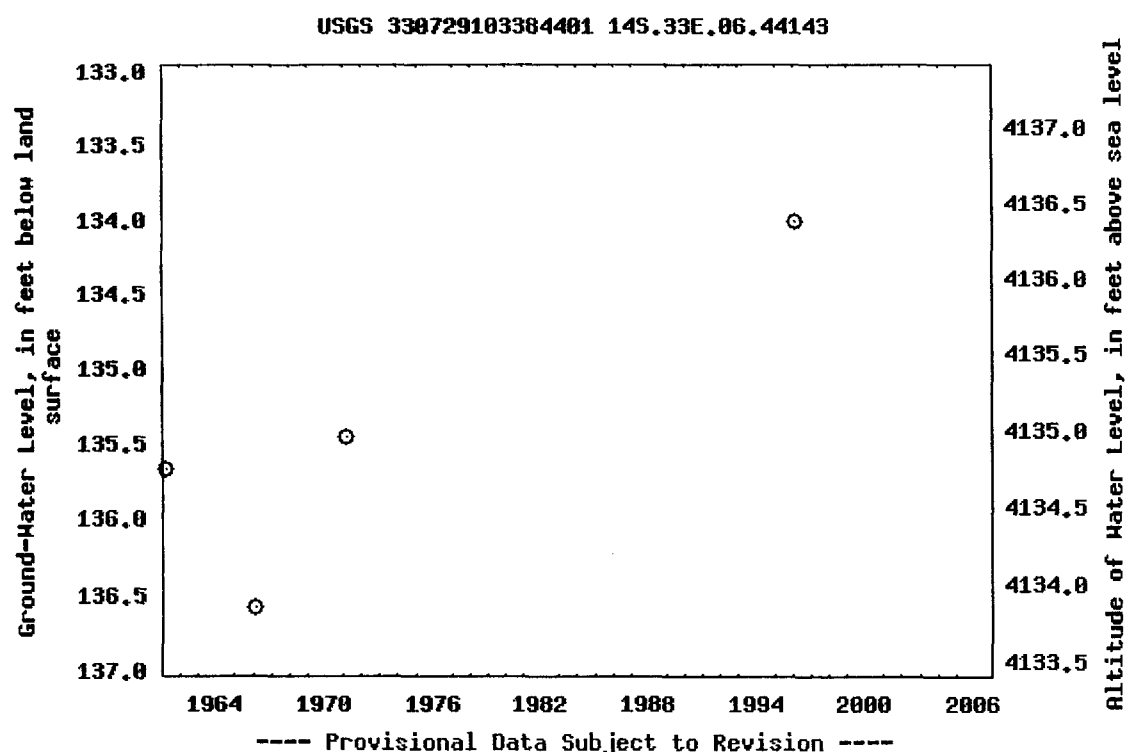
Latitude 33°07'29", Longitude 103°38'44" NAD27

Land-surface elevation 4,270.40 feet above sea level NGVD29

The depth of the well is 190 feet below land surface.

This well is completed in the OGALLALA FORMATION (121OGLL) local
aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

APPENDIX B

Aerial Photographs



Image © 2006 DigitalGlobe

Google

Pointer 33°08'34.24" N 103°38'02.69" W

Streaming [|||||] 100%

Eye alt 788 ft

[Send To Printer](#)

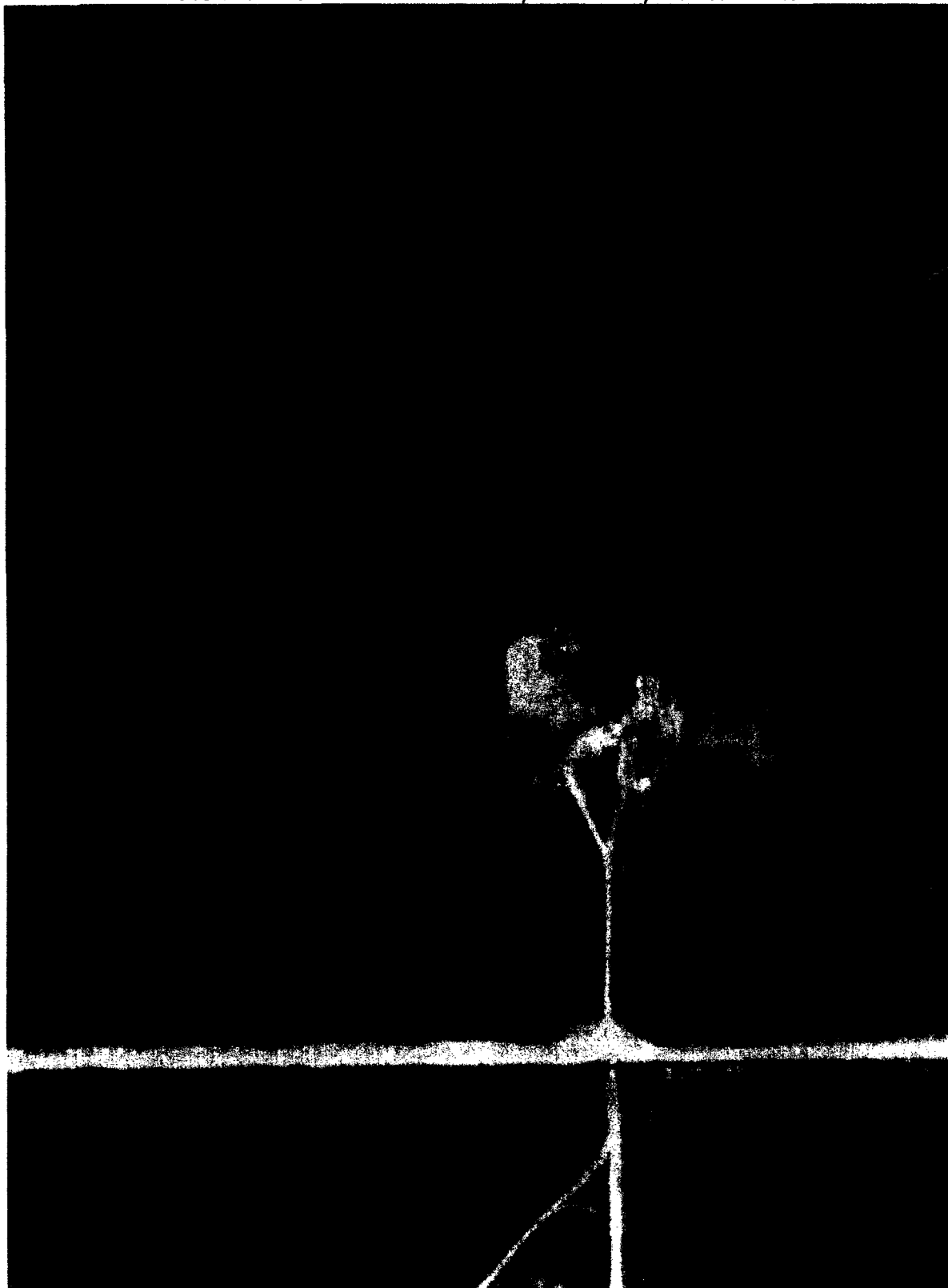
[Back To TerraServer](#)

[Change to 11x17 Print Size](#)

[Show Grid Lines](#)

[Change to Landscape](#)

USGS 309 km NE of Ciudad Juaacuterez, Chihuahua, Mexico 22 Oct 1996



0 100M

0 100yd

Image courtesy of the U.S. Geological Survey

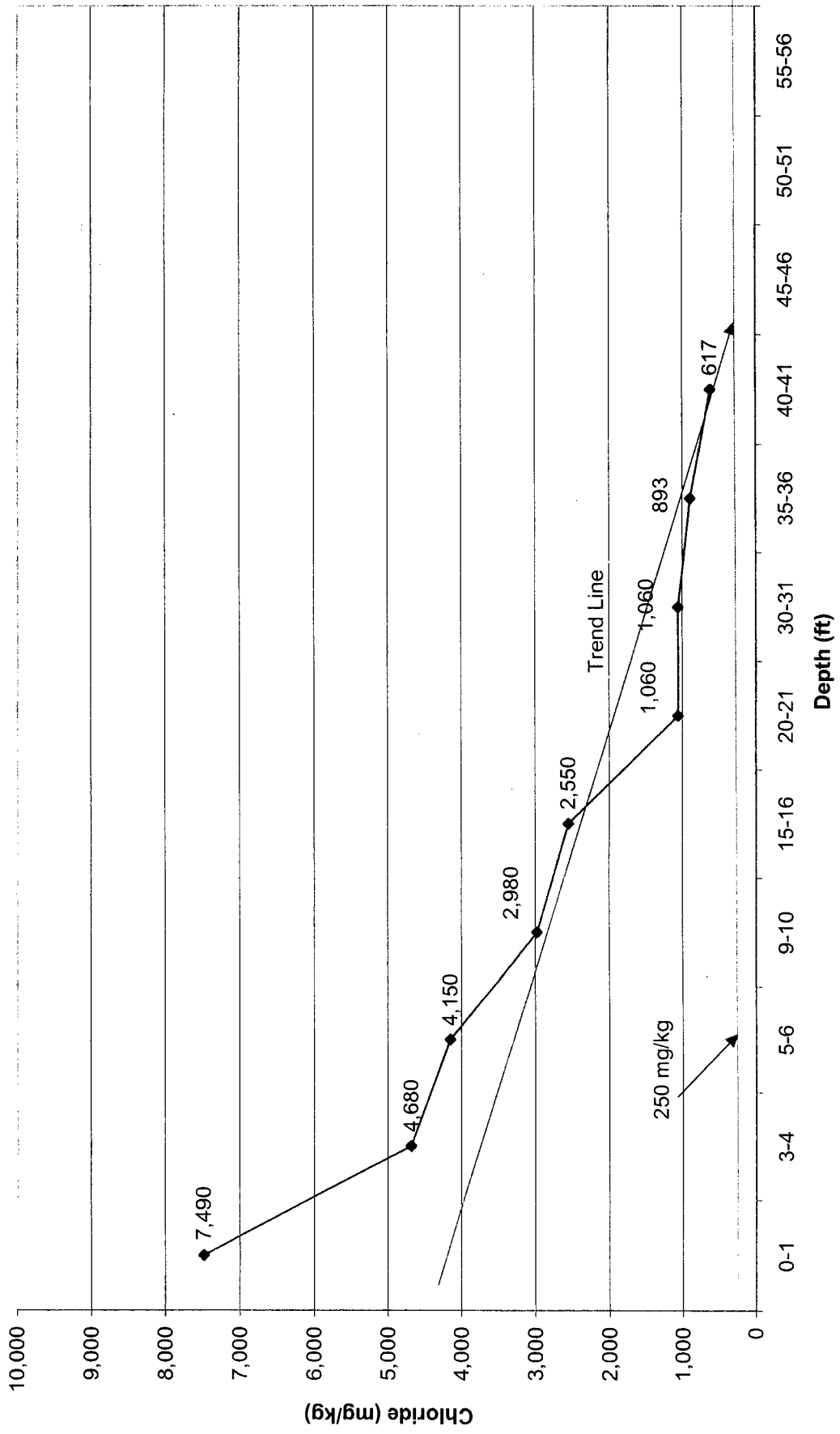
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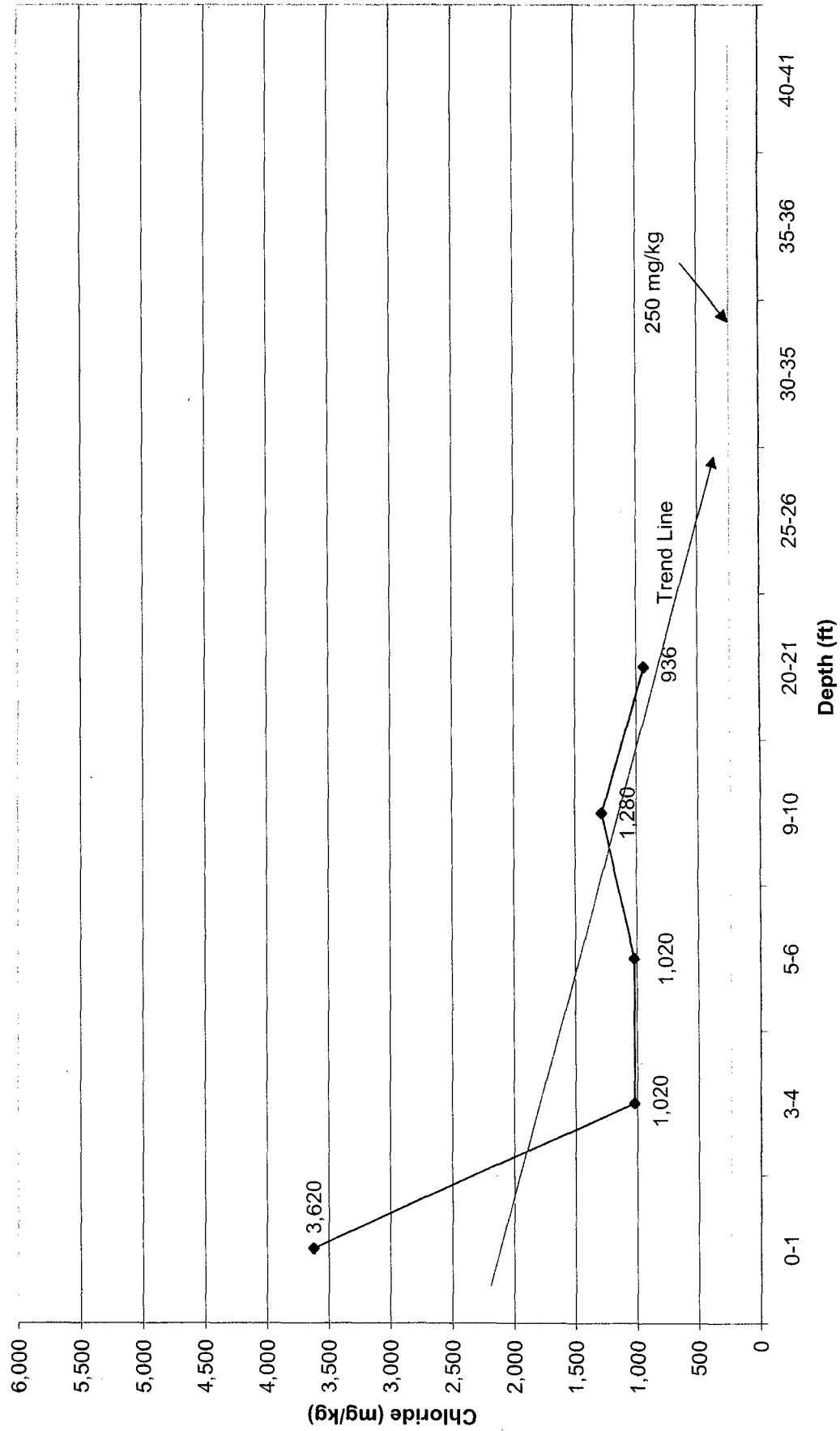
APPENDIX C

Analytical Data

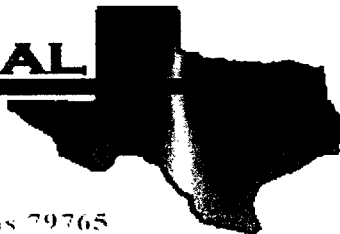
BH-3



BH-4



E **N** **V** **I** **R** **O** **N** **M** **E** **N** **T** **A** **L** **L** **A** **B** **O** **F**



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Crown Quest/ Transfer Line

Project Number: 2687

Location: Lea County, NM

Lab Order Number: 6126005

Report Date: 10/02/06

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 0-1'	6I26005-01	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 3-4'	6I26005-02	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 5-6'	6I26005-03	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 7-8'	6I26005-04	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 10-11'	6I26005-05	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 15-16'	6I26005-06	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 20-21'	6I26005-07	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 25-26'	6I26005-08	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 0-1'	6I26005-09	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 3-4'	6I26005-10	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 5-6'	6I26005-11	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 10-11'	6I26005-12	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 15-16'	6I26005-13	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 20-21'	6I26005-14	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 30-31'	6I26005-15	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 40-41'	6I26005-16	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 50-51'	6I26005-17	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 60-61'	6I26005-18	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 0-1'	6I26005-19	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 3-4'	6I26005-20	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 5-6'	6I26005-21	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 9-10'	6I26005-22	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 15-16'	6I26005-23	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 20-21'	6I26005-24	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 30-31'	6I26005-25	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 35-36'	6I26005-26	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 40-41'	6I26005-27	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 0-1'	6I26005-28	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 3-4'	6I26005-29	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 5-6'	6I26005-30	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 9-10'	6I26005-31	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 20-21'	6I26005-32	Soil	09/21/06 00:00	09-26-2006 10:30
BH-5 0-1'	6I26005-33	Soil	09/21/06 00:00	09-26-2006 10:30
BH-5 3-4'	6I26005-34	Soil	09/21/06 00:00	09-26-2006 10:30

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-5 6-7'	6126005-35	Soil	09/21/06 00:00	09-26-2006 10:30
BH-5 12-13'	6126005-36	Soil	09/21/06 00:00	09-26-2006 10:30
BH-5 20-21'	6126005-37	Soil	09/21/06 00:00	09-26-2006 10:30
BH-6 0-1'	6126005-38	Soil	09/22/06 00:00	09-26-2006 10:30
BH-6 3-4'	6126005-39	Soil	09/22/06 00:00	09-26-2006 10:30
BH-6 5-6'	6126005-40	Soil	09/22/06 00:00	09-26-2006 10:30
BH-6 10-11'	6126005-41	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 0-1'	6126005-42	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 3-4'	6126005-43	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 5-6'	6126005-44	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 10-11'	6126005-45	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 15-16'	6126005-46	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 20-21'	6126005-47	Soil	09/22/06 00:00	09-26-2006 10:30
BH-8 0-1'	6126005-48	Soil	09/22/06 00:00	09-26-2006 10:30
BH-8 5-6'	6126005-49	Soil	09/22/06 00:00	09-26-2006 10:30
BH-8 10-11'	6126005-50	Soil	09/22/06 00:00	09-26-2006 10:30
BH-8 15-16'	6126005-51	Soil	09/22/06 00:00	09-26-2006 10:30
BH-9 0-1'	6126005-52	Soil	09/22/06 00:00	09-26-2006 10:30
BH-9 3-4'	6126005-53	Soil	09/22/06 00:00	09-26-2006 10:30
BH-9 5-6'	6126005-54	Soil	09/22/06 00:00	09-26-2006 10:30
BH-9 10-11'	6126005-55	Soil	09/22/06 00:00	09-26-2006 10:30
BH-9 15-16'	6126005-56	Soil	09/22/06 00:00	09-26-2006 10:30
BH-10 0-1'	6126005-57	Soil	09/22/06 00:00	09-26-2006 10:30
BH-10 3-4'	6126005-58	Soil	09/22/06 00:00	09-26-2006 10:30
BH-10 5-6'	6126005-59	Soil	09/22/06 00:00	09-26-2006 10:30
BH-10 10-11'	6126005-60	Soil	09/22/06 00:00	09-26-2006 10:30
BH-10 15-16'	6126005-61	Soil	09/22/06 00:00	09-26-2006 10:30
BH-11 0-1'	6126005-62	Soil	09/22/06 00:00	09-26-2006 10:30
BH-11 3-4'	6126005-63	Soil	09/22/06 00:00	09-26-2006 10:30
BH-11 5-6'	6126005-64	Soil	09/22/06 00:00	09-26-2006 10:30
BH-11 10-11'	6126005-65	Soil	09/22/06 00:00	09-26-2006 10:30
BH-11 15-16'	6126005-66	Soil	09/22/06 00:00	09-26-2006 10:30
BH-12 0-1'	6126005-67	Soil	09/22/06 00:00	09-26-2006 10:30
BH-12 2-3'	6126005-68	Soil	09/22/06 00:00	09-26-2006 10:30

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Page 2 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-12 3-4'	6126005-69	Soil	09/22/06 00:00	09-26-2006 10:30
BH-12 5-6'	6126005-70	Soil	09/22/06 00:00	09-26-2006 10:30
BH-12 10-11'	6126005-71	Soil	09/22/06 00:00	09-26-2006 10:30
BH-13 0-1'	6126005-72	Soil	09/22/06 00:00	09-26-2006 10:30
BH-13 3-4'	6126005-73	Soil	09/22/06 00:00	09-26-2006 10:30
BH-13 5-6'	6126005-74	Soil	09/22/06 00:00	09-26-2006 10:30
BH-13 10-11'	6126005-75	Soil	09/22/06 00:00	09-26-2006 10:30
BH-14 0-1'	6126005-76	Soil	09/22/06 00:00	09-26-2006 10:30
BH-14 3-4'	6126005-77	Soil	09/22/06 00:00	09-26-2006 10:30
BH-14 5-6'	6126005-78	Soil	09/22/06 00:00	09-26-2006 10:30

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Page 3 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 0-1' (6I26005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI62915	09/29/06	10/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI62718	09/27/06	09/29/06	EPA 8015M	
Carbon Ranges C12-C28	83.1	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	40.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	124	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.8 %	70-130		"	"	"	"	
BH-2 0-1' (6I26005-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI62915	09/29/06	10/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI62729	09/27/06	09/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		73.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.8 %	70-130		"	"	"	"	
BH-3 0-1' (6I26005-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI62915	09/29/06	10/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI62729	09/27/06	09/27/06	EPA 8015M	

Environmental Lab of Texas

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Page 4 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 0-1' (6I26005-19) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EI62729	09/27/06	09/27/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		72.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.2 %	70-130		"	"	"	"	

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 0-1' (6I26005-01) Soil									
Chloride	766	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
% Moisture	12.8	0.1	%	1	EI62701	09/26/06	09/27/06	% calculation	
BH-1 3-4' (6I26005-02) Soil									
Chloride	1330	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-1 5-6' (6I26005-03) Soil									
Chloride	893	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-1 7-8' (6I26005-04) Soil									
Chloride	1230	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-1 10-11' (6I26005-05) Soil									
Chloride	1700	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-1 15-16' (6I26005-06) Soil									
Chloride	1490	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-1 20-21' (6I26005-07) Soil									
Chloride	723	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-1 25-26' (6I26005-08) Soil									
Chloride	170	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-2 0-1' (6I26005-09) Soil									
Chloride	7130	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
% Moisture	12.8	0.1	%	1	EI62701	09/26/06	09/27/06	% calculation	
BH-2 3-4' (6I26005-10) Soil									
Chloride	3510	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	

Environmental Lab of Texas

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Page 6 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 5-6' (6I26005-11) Soil									
Chloride	8080	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 10-11' (6I26005-12) Soil									
Chloride	4890	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 15-16' (6I26005-13) Soil									
Chloride	6590	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 20-21' (6I26005-14) Soil									
Chloride	4680	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 30-31' (6I26005-15) Soil									
Chloride	3190	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 40-41' (6I26005-16) Soil									
Chloride	2340	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 50-51' (6I26005-17) Soil									
Chloride	851	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-2 60-61' (6I26005-18) Soil									
Chloride	383	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 0-1' (6I26005-19) Soil									
Chloride	7490	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
% Moisture	15.1	0.1	%	1	EI62701	09/26/06	09/27/06	% calculation	
BH-3 3-4' (6I26005-20) Soil									
Chloride	4680	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	

Environmental Lab of Texas

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Page 7 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 5-6' (6I26005-21) Soil									
Chloride	4150	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 9-10' (6I26005-22) Soil									
Chloride	2980	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 15-16' (6I26005-23) Soil									
Chloride	2550	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 20-21' (6I26005-24) Soil									
Chloride	1060	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 30-31' (6I26005-25) Soil									
Chloride	1060	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 35-36' (6I26005-26) Soil									
Chloride	893	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 40-41' (6I26005-27) Soil									
Chloride	617	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 0-1' (6I26005-28) Soil									
Chloride	3620	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 3-4' (6I26005-29) Soil									
Chloride	1020	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 5-6' (6I26005-30) Soil									
Chloride	1020	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 9-10' (6I26005-31) Soil									
Chloride	1280	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	

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Page 8 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 20-21' (6126005-32) Soil									
Chloride	936	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-5 0-1' (6126005-33) Soil									
Chloride	3620	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-5 3-4' (6126005-34) Soil									
Chloride	718	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-5 6-7' (6126005-35) Soil									
Chloride	851	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-5 12-13' (6126005-36) Soil									
Chloride	936	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-5 20-21' (6126005-37) Soil									
Chloride	1190	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-6 0-1' (6126005-38) Soil									
Chloride	7440	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-6 3-4' (6126005-39) Soil									
Chloride	1170	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-6 5-6' (6126005-40) Soil									
Chloride	1060	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-6 10-11' (6126005-41) Soil									
Chloride	191	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-7 0-1' (6126005-42) Soil									
Chloride	489	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	

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Page 9 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-7 3-4' (6126005-43) Soil									
Chloride	1620	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-7 5-6' (6126005-44) Soil									
Chloride	1910	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-7 10-11' (6126005-45) Soil									
Chloride	2070	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-7 15-16' (6126005-46) Soil									
Chloride	1970	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-7 20-21' (6126005-47) Soil									
Chloride	489	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-8 0-1' (6126005-48) Soil									
Chloride	ND	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-8 5-6' (6126005-49) Soil									
Chloride	532	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-8 10-11' (6126005-50) Soil									
Chloride	63.8	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-8 15-16' (6126005-51) Soil									
Chloride	128	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-9 0-1' (6126005-52) Soil									
Chloride	702	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-9 3-4' (6126005-53) Soil									
Chloride	830	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	

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Page 10 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-9 5-6' (6126005-54) Soil									
Chloride	617	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-9 10-11' (6126005-55) Soil									
Chloride	1190	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-9 15-16' (6126005-56) Soil									
Chloride	702	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-10 0-1' (6126005-57) Soil									
Chloride	63.8	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-10 3-4' (6126005-58) Soil									
Chloride	2340	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-10 5-6' (6126005-59) Soil									
Chloride	723	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-10 10-11' (6126005-60) Soil									
Chloride	362	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-10 15-16' (6126005-61) Soil									
Chloride	723	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-11 0-1' (6126005-62) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-11 3-4' (6126005-63) Soil									
Chloride	2770	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-11 5-6' (6126005-64) Soil									
Chloride	1380	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	

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Page 11 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-11 10-11' (6126005-65) Soil									
Chloride	1910	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-11 15-16' (6126005-66) Soil									
Chloride	63.8	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-12 0-1' (6126005-67) Soil									
Chloride	ND	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-12 2-3' (6126005-68) Soil									
Chloride	808	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-12 3-4' (6126005-69) Soil									
Chloride	787	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-12 5-6' (6126005-70) Soil									
Chloride	351	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-12 10-11' (6126005-71) Soil									
Chloride	ND	20.0	mg/kg Wet	2	E162706	09/26/06	09/27/06	SW 846 9253	
BH-13 0-1' (6126005-72) Soil									
Chloride	553	20.0	mg/kg Wet	2	E162706	09/26/06	09/27/06	SW 846 9253	
BH-13 3-4' (6126005-73) Soil									
Chloride	1980	20.0	mg/kg Wet	2	E162706	09/26/06	09/27/06	SW 846 9253	
BH-13 5-6' (6126005-74) Soil									
Chloride	277	20.0	mg/kg Wet	2	E162706	09/26/06	09/27/06	SW 846 9253	
BH-13 10-11' (6126005-75) Soil									
Chloride	223	20.0	mg/kg Wet	2	E162706	09/26/06	09/27/06	SW 846 9253	

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Page 12 of 22

Highlander Environmental Corp.
1910 N. Big Spring St.
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Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-14 0-1' (6I26005-76) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EI62706	09/26/06	09/27/06	SW 846 9253	
BH-14 3-4' (6I26005-77) Soil									
Chloride	95.7	20.0	mg/kg Wet	2	EI62706	09/26/06	09/27/06	SW 846 9253	
BH-14 5-6' (6I26005-78) Soil									
Chloride	42.5	20.0	mg/kg Wet	2	EI62706	09/26/06	09/27/06	SW 846 9253	

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Page 13 of 22

Highlander Environmental Corp.
1910 N. Big Spring St.
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Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

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 EI62718 - Solvent Extraction (GC)										
Blank (EI62718-BLK1)				Prepared & Analyzed: 09/27/06						
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	49.8		mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chlorooctadecane	41.5		"	50.0		83.0	70-130			
LCS (EI62718-BS1)				Prepared & Analyzed: 09/27/06						
Carbon Ranges C6-C12	487	10.0	mg/kg wet	500		97.4	75-125			
Carbon Ranges C12-C28	437	10.0	"	500		87.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	924	10.0	"	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	60.0		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			
Calibration Check (EI62718-CCV1)				Prepared: 09/27/06 Analyzed: 09/29/06						
Carbon Ranges C6-C12	208		mg/kg	250		83.2	80-120			
Carbon Ranges C12-C28	242		"	250		96.8	80-120			
Total Hydrocarbons	450		"	500		90.0	80-120			
Surrogate: 1-Chlorooctane	60.1		"	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	42.7		"	50.0		85.4	70-130			
Matrix Spike (EI62718-MS1)				Source: 6125012-05 Prepared: 09/27/06 Analyzed: 09/29/06						
Carbon Ranges C6-C12	511	10.0	mg/kg dry	545	ND	93.8	75-125			
Carbon Ranges C12-C28	458	10.0	"	545	ND	84.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	969	10.0	"	1090	ND	88.9	75-125			
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	42.5		"	50.0		85.0	70-130			

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Page 14 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

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
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Batch EI62718 - Solvent Extraction (GC)

Matrix Spike Dup (EI62718-MSD1)		Source: 6I25012-05		Prepared: 09/27/06		Analyzed: 09/29/06				
Carbon Ranges C6-C12	508	10.0	mg/kg dry	545	ND	93.2	75-125	0.589	20	
Carbon Ranges C12-C28	457	10.0	"	545	ND	83.9	75-125	0.219	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	965	10.0	"	1090	ND	88.5	75-125	0.414	20	
Surrogate: 1-Chlorooctane	58.5		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	42.4		"	50.0		84.8	70-130			

Batch EI62729 - Solvent Extraction (GC)

Blank (EI62729-BLK1)				Prepared & Analyzed: 09/27/06						
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	37.8		mg/kg	50.0		75.6	70-130			
Surrogate: 1-Chlorooctadecane	35.1		"	50.0		70.2	70-130			

LCS (EI62729-BS1)				Prepared & Analyzed: 09/27/06						
Carbon Ranges C6-C12	585	10.0	mg/kg wet	500		117	75-125			
Carbon Ranges C12-C28	407	10.0	"	500		81.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	992	10.0	"	1000		99.2	75-125			
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	70-130			
Surrogate: 1-Chlorooctadecane	41.1		"	50.0		82.2	70-130			

Calibration Check (EI62729-CCV1)				Prepared: 09/27/06		Analyzed: 09/28/06				
Carbon Ranges C6-C12	276		mg/kg	250		110	80-120			
Carbon Ranges C12-C28	228		"	250		91.2	80-120			
Total Hydrocarbons	504		"	500		101	80-120			
Surrogate: 1-Chlorooctane	43.8		"	50.0		87.6	70-130			
Surrogate: 1-Chlorooctadecane	54.7		"	50.0		109	70-130			

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Page 15 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

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
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Batch EI62729 - Solvent Extraction (GC)

Matrix Spike (EI62729-MS1)		Source: 6126005-19		Prepared & Analyzed: 09/27/06						
Carbon Ranges C6-C12	652	10.0	mg/kg dry	589	ND	111	75-125			
Carbon Ranges C12-C28	476	10.0	"	589	ND	80.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1130	10.0	"	1180	ND	95.8	75-125			
Surrogate: 1-Chlorooctane	41.6		mg/kg	50.0		83.2	70-130			
Surrogate: 1-Chlorooctadecane	49.7		"	50.0		99.4	70-130			
Matrix Spike Dup (EI62729-MSD1)		Source: 6126005-19		Prepared & Analyzed: 09/27/06						
Carbon Ranges C6-C12	672	10.0	mg/kg dry	589	ND	114	75-125	3.02	20	
Carbon Ranges C12-C28	476	10.0	"	589	ND	80.8	75-125	0.00	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1150	10.0	"	1180	ND	97.5	75-125	1.75	20	
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.6	70-130			
Surrogate: 1-Chlorooctadecane	50.9		"	50.0		102	70-130			

Batch EI62915 - EPA 5030C (GC)

Blank (EI62915-BLK1)		Prepared: 09/29/06 Analyzed: 10/01/06								
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	34.3		ug/kg	40.0		85.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120			
LCS (EI62915-BS1)		Prepared: 09/29/06 Analyzed: 09/30/06								
Benzene	1.19	0.0250	mg/kg wet	1.25		95.2	80-120			
Toluene	1.06	0.0250	"	1.25		84.8	80-120			
Ethylbenzene	1.02	0.0250	"	1.25		81.6	80-120			
Xylene (p/m)	2.17	0.0250	"	2.50		86.8	80-120			
Xylene (o)	1.04	0.0250	"	1.25		83.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.4		ug/kg	40.0		81.0	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	80-120			

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Page 16 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EI62915 - EPA 5030C (GC)

Calibration Check (EI62915-CCV1)

Prepared: 09/29/06 Analyzed: 10/01/06

Benzene	53.2		ug/kg	50.0		106	80-120		
Toluene	46.1		"	50.0		92.2	80-120		
Ethylbenzene	44.7		"	50.0		89.4	80-120		
Xylene (p/m)	89.3		"	100		89.3	80-120		
Xylene (o)	44.3		"	50.0		88.6	80-120		
Surrogate: a,a,a-Trifluorotoluene	40.8		"	40.0		102	80-120		
Surrogate: 4-Bromofluorobenzene	44.6		"	40.0		112	80-120		

Matrix Spike (EI62915-MS1)

Source: 6126005-19

Prepared: 09/29/06 Analyzed: 10/01/06

Benzene	1.36	0.0250	mg/kg dry	1.47	ND	92.5	80-120		
Toluene	1.28	0.0250	"	1.47	ND	87.1	80-120		
Ethylbenzene	1.26	0.0250	"	1.47	ND	85.7	80-120		
Xylene (p/m)	2.78	0.0250	"	2.94	ND	94.6	80-120		
Xylene (o)	1.27	0.0250	"	1.47	ND	86.4	80-120		
Surrogate: a,a,a-Trifluorotoluene	35.4		ug/kg	40.0		88.5	80-120		
Surrogate: 4-Bromofluorobenzene	44.2		"	40.0		110	80-120		

Matrix Spike Dup (EI62915-MSD1)

Source: 6126005-19

Prepared: 09/29/06 Analyzed: 10/01/06

Benzene	1.30	0.0250	mg/kg dry	1.47	ND	88.4	80-120	4.53	20
Toluene	1.20	0.0250	"	1.47	ND	81.6	80-120	6.52	20
Ethylbenzene	1.35	0.0250	"	1.47	ND	91.8	80-120	6.87	20
Xylene (p/m)	2.41	0.0250	"	2.94	ND	82.0	80-120	14.3	20
Xylene (o)	1.19	0.0250	"	1.47	ND	81.0	80-120	6.45	20
Surrogate: a,a,a-Trifluorotoluene	35.8		ug/kg	40.0		89.5	80-120		
Surrogate: 4-Bromofluorobenzene	45.0		"	40.0		112	80-120		

Environmental Lab of Texas

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Page 17 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavaréz

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 EI62606 - Water Extraction

Blank (EI62606-BLK1)

Prepared & Analyzed: 09/26/06

Chloride ND 20.0 mg/kg Wet

LCS (EI62606-BS1)

Prepared & Analyzed: 09/26/06

Chloride 91.5 mg/kg 100 91.5 80-120

Matrix Spike (EI62606-MS1)

Source: 6126003-01

Prepared & Analyzed: 09/26/06

Chloride 7280 20.0 mg/kg Wet 500 6810 94.0 80-120

Matrix Spike Dup (EI62606-MSD1)

Source: 6126003-01

Prepared & Analyzed: 09/26/06

Chloride 7340 20.0 mg/kg Wet 500 6810 106 80-120 0.821 20

Reference (EI62606-SRM1)

Prepared & Analyzed: 09/26/06

Chloride 51.0 mg/kg 50.0 102 80-120

Batch EI62701 - General Preparation (Prep)

Blank (EI62701-BLK1)

Prepared: 09/26/06 Analyzed: 09/27/06

% Solids 100 %

Duplicate (EI62701-DUP1)

Source: 6125014-01

Prepared: 09/26/06 Analyzed: 09/27/06

% Solids 98.0 % 98.2 0.204 20

Duplicate (EI62701-DUP2)

Source: 6126005-01

Prepared: 09/26/06 Analyzed: 09/27/06

% Solids 88.0 % 87.2 0.913 20

Batch EI62703 - Water Extraction

Blank (EI62703-BLK1)

Prepared & Analyzed: 09/27/06

Chloride ND 20.0 mg/kg Wet

Environmental Lab of Texas

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Page 18 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

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 EI62703 - Water Extraction										
LCS (EI62703-BS1)				Prepared & Analyzed: 09/27/06						
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120			
Matrix Spike (EI62703-MS1)				Source: 6126005-12		Prepared & Analyzed: 09/27/06				
Chloride	5420	20.0	mg/kg Wet	500	4890	106	80-120			
Matrix Spike Dup (EI62703-MSD1)				Source: 6126005-12		Prepared & Analyzed: 09/27/06				
Chloride	5420	20.0	mg/kg Wet	500	4890	106	80-120	0.00	20	
Reference (EI62703-SRM1)				Prepared & Analyzed: 09/27/06						
Chloride	51.0	5.00	mg/kg Wet	50.0		102	80-120			
Batch EI62704 - Water Extraction										
Blank (EI62704-BLK1)				Prepared & Analyzed: 09/27/06						
Chloride	ND	20.0	mg/kg Wet							
LCS (EI62704-BS1)				Prepared & Analyzed: 09/27/06						
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120			
Matrix Spike (EI62704-MS1)				Source: 6126005-32		Prepared: 09/26/06 Analyzed: 09/27/06				
Chloride	1450	20.0	mg/kg Wet	500	936	103	80-120			
Matrix Spike Dup (EI62704-MSD1)				Source: 6126005-32		Prepared: 09/26/06 Analyzed: 09/27/06				
Chloride	1450	20.0	mg/kg Wet	500	936	103	80-120	0.00	20	
Reference (EI62704-SRM1)				Prepared & Analyzed: 09/27/06						
Chloride	51.0		mg/kg	50.0		102	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 19 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

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 Limits	RPD	RPD Limit	Notes
Batch EI62705 - Water Extraction									
Blank (EI62705-BLK1)				Prepared & Analyzed: 09/27/06					
Chloride	ND	20.0	mg/kg Wet						
LCS (EI62705-BS1)				Prepared & Analyzed: 09/27/06					
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120		
Matrix Spike (EI62705-MS1)				Source: 6126005-53		Prepared: 09/26/06 Analyzed: 09/27/06			
Chloride	1340	20.0	mg/kg Wet	500	830	102	80-120		
Matrix Spike Dup (EI62705-MSD1)				Source: 6126005-53		Prepared: 09/26/06 Analyzed: 09/27/06			
Chloride	1330	20.0	mg/kg Wet	500	830	100	80-120	0.749	20
Reference (EI62705-SRM1)				Prepared & Analyzed: 09/27/06					
Chloride	51.0		mg/kg	50.0		102	80-120		
Batch EI62706 - Water Extraction									
Blank (EI62706-BLK1)				Prepared & Analyzed: 09/27/06					
Chloride	ND	20.0	mg/kg Wet						
LCS (EI62706-BS1)				Prepared & Analyzed: 09/27/06					
Chloride	91.5	5.00	mg/kg Wet	100		91.5	80-120		
Matrix Spike (EI62706-MS1)				Source: 6125011-01		Prepared: 09/26/06 Analyzed: 09/27/06			
Chloride	9680	20.0	mg/kg Wet	500	9150	106	80-120		
Matrix Spike Dup (EI62706-MSD1)				Source: 6125011-01		Prepared: 09/26/06 Analyzed: 09/27/06			
Chloride	9680	20.0	mg/kg Wet	500	9150	106	80-120	0.00	20

Environmental Lab of Texas

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Page 20 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavarez

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 EI62706 - Water Extraction

Reference (EI62706-SRM1)

Prepared & Analyzed: 09/27/06

Chloride	50.0		mg/kg	50.0		100	80-120			
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Environmental Lab of Texas

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Page 21 of 22

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

Project: Crown Quest/ Transfer Line
Project Number: 2687
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

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:

10/2/2006

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 22 of 22

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

03:30

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: *Charles Duest*

SITE MANAGER
K. E. Lavar

PROJECT NO.: 03-7
PROJECT NAME:

PROJECT NAME: CONQUEST THROUGH THE LINE

See Rem.
SAMPLE IDENTIFICATION

[illegible]

RELINQUISHED BY: (Signature) <i>[Signature]</i>		Date: 9/26/06		Time: 10:30		RECEIVED BY: (Signature) _____		Date: _____		Time: _____		SAMPLED BY: (Print & Sign) <i>[Signature]</i>		Date: _____		Time: _____	
RELINQUISHED BY: (Signature) _____		Date: _____		Time: _____		RECEIVED BY: (Signature) _____		Date: _____		Time: _____		SAMPLE SHIPPED BY: (Circle) FEDEX <input type="checkbox"/> BCS <input type="checkbox"/>		AIRBILL # _____		OTHER: _____	
RELINQUISHED BY: (Signature) _____		Date: _____		Time: _____		RECEIVED BY: (Signature) _____		Date: _____		Time: _____		HAND DELIVERED <input type="checkbox"/>		RESULTS BY: _____			
RECEIVING LABORATORY: <i>glt</i>		ADDRESS: _____		CITY: _____		STATE: _____		ZIP: _____		PHONE: _____		DATE: 9/26/06		TIME: 9:30		REMARKS: <i>1st label</i>	
MATRIX: _____		W-Field <input checked="" type="checkbox"/> S-Sub <input type="checkbox"/>		A-Alt <input type="checkbox"/> SI-Subgrade <input type="checkbox"/>		SD-Solid <input type="checkbox"/> O-Other <input type="checkbox"/>		REMARKS: <i>402-61083</i>									
SAMPLE CONDITION WHEN RECEIVED: _____																	

Please fill out all copies - Laboratory retains yellow copy - Return original copy to Richlander 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: *Chubb Crest*

SITE MANAGER: *Dick Parker*

PROJECT NO: *7-6087*

PROJECT NAME: *Chubb Crest Transfer Line*

SAMPLE IDENTIFICATION: *See on form.*

LAB ID. NUMBER: *519-2204*

DATE: *1-22-04*

TIME: *15-16*

MATRIX: *S*

COMP: *S*

GRAB: *S*

DATE: *1-22-04*

TIME: *15-16*

MATRIX: *S*

COMP: *S*

GRAB: *S*

DATE: *1-22-04*

TIME: *15-16*

MATRIX: *S*

COMP: *S*

GRAB: *S*

DATE: *1-22-04*

TIME: *15-16*

MATRIX: *S*

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GRAB: *S*

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MATRIX: *S*

COMP: *S*

GRAB: *S*

DATE: *1-22-04*

TIME: *15-16*

MATRIX: *S*

COMP: <

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander
 Date/Time: 9/26/06 10:30
 Lab ID #: 6T260
 Initials: OK

Sample Receipt Checklist

Client Initials

Temperature of container/ cooler?	Yes	No	30 °C	
Shipping container in good condition?	Yes	No		
Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Chain of Custody present?	Yes	No		
Sample instructions complete of Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished/ received?	Yes	No		
Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	*
Container label(s) legible and intact?	Yes	No	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	Yes	No		
Containers supplied by ELOT?	Yes	No		
Samples in proper container/ bottle?	Yes	No	See Below	
Samples properly preserved?	Yes	No	See Below	
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
All samples received within sufficient hold time?	Yes	No	See Below	
VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: Ike Tavares Contacted by: Jeanne McMurray Date/ Time: 09-28-06
 Regarding: * #8 sample id discrepancy

Corrective Action Taken:

Client wants to reference COC field code

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

Jeanne McMurrey

From: "Ike T" <itavarez@hec-enviro.com>
To: "Jeanne McMurrey" <jeanne@elabtexas.com>
Sent: Thursday, September 28, 2006 8:38 AM
Subject: RE: Crown Quest samples

Jeanne,
Please use the sample BH-12 (2-3') for the chloride analysis, thanks

Highlander Environmental Corp.
Ike Tavarez

-----Original Message-----

From: Jeanne McMurrey [mailto:jeanne@elabtexas.com]
Sent: Thursday, September 28, 2006 8:31 AM
To: Ike Tavarez
Subject: Fw: Crown Quest samples

----- Original Message -----

From: Jeanne McMurrey
To: Ike Tavarez
Sent: Tuesday, September 26, 2006 12:08 PM
Subject: Re: Crown Quest samples

Hello Ike,

We received your samples for Crown Quest/ Transfer Line. There is a discrepancy on the field code for:

COC	Label
BH-12 2-3'	BH-12 1-2'

Which do you want to reference? Let me know.

Thanks,
Jeanne

Jeanne McMurrey
Environmental Lab of Texas I, Ltd.
12600 West I-20 East
Odessa, Texas 79765
432-563-1800

--

This message has been scanned for viruses and dangerous content by BasinBroadband, and is believed to be clean.

--

This message has been scanned for viruses and dangerous content by Basin Broadband, and is believed to be clean.

9/28/2006

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	CrownQuest Operating LLC	Contact	Luke Dunn
Address	PO BOX 2990 Midland, TX 79701	Telephone No.	432-685-3116
Facility Name	Water transfer line	Facility Type	Water disposal

Surface Owner	Norman Hahn	Mineral Owner	State of New Mexico	Lease No.	N/A (not on a lease)
---------------	-------------	---------------	---------------------	-----------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	32	13S	33E	660	South	2200	West	Lea

Latitude 127° Longitude

NATURE OF RELEASE

Type of Release	Brine Water	Volume of Release	??	Volume Recovered	~15 bbls
Source of Release	Produced brine water from several leases	Date and Hour of Occurrence	??	Date and Hour of Discovery	5/18/06 @ 3 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mr. Gonzalez of the OCD		
By Whom?	Mr. Gonzalez of the OCD	Date and Hour	5/18/06 3 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A buried cement transfer line running from a water collection battery developed a leak around a steel valve. The leak was repaired and the area that the water touched was cleared and all free water removed with a vacuum truck awaiting further cleanup action.

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Luke Dunn</u>	OIL CONSERVATION DIVISION	
Printed Name: Luke Dunn	Approved by District Supervisor: <u>[Signature]</u>	
Title: Consultant	Approval Date: <u>11-20-06</u>	Expiration Date: <u>2-20-07</u>
E-mail Address: ldunn@crowquest.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/23/2006	Phone: 432-685-3116	

* Attach Additional Sheets If Necessary

incident - NPAC 0633332779

facility - APAC 0633332683

application - NPAC 0633332910

AUG-3-2006 07:47 FROM: CROWNQUEST 13TH FLOOR (432) 682-3168 TO: 6823946 P.2/2