

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 reseeding.

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:

### **TABLES**

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

0-1         <1040	Sample ID	Sampled		2 (O. 60)			Deference (mg/kg)				Chloride (mg/kg)
934 <td>BH-1</td> <td>9/21/2006</td> <td>1-0</td> <td></td> <td>124.0</td> <td>124.0</td> <td>&lt;0.025</td> <td></td> <td>&lt;0.025</td> <td></td> <td>992</td>	BH-1	9/21/2006	1-0		124.0	124.0	<0.025		<0.025		992
5.6   5.6   1.   1.   1.   1.   1.   1.   1.			3-4	-	-	•	•	-	•	•	1,330
1.8   1.8			2-6	-		-		1	•	-	893
10-11   1.   1.   1.   1.   1.   1.   1.			8-2	•	-	•	•	-	•	•	1,230
15.16   15.16   1.   1.   1.   1.   1.   1.   1.			10-11	-	•	•	-	-			1700
9.21         1			15-16	-	•	-		•	-	-	1,490
922.66			20-21	•	-	-	•	,	1	•	723
9921/2006         0-1         <10.0			25-26	•	•		•	-	-	•	170
9121/2006         0-1         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <											
3.4 <td>BH-2</td> <td>9/21/2006</td> <td>0-1</td> <td>&lt;10.0</td> <td>&lt;10.0</td> <td>&lt;10.0</td> <td>&lt;0.025</td> <td>&lt;0.025</td> <td>&lt;0.025</td> <td>&lt;0.025</td> <td>7,130</td>	BH-2	9/21/2006	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	7,130
5-6 <td></td> <td></td> <td>3-4</td> <td>-</td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td>-</td> <td>·</td> <td>3,510</td>			3-4	-	•	•		•	-	·	3,510
10-11			9-9		,	,	1	'	-	•	8,080
15-16   15-1			10-11	,		1	•	•	1	1	4,890
30-21       . <td></td> <td></td> <td>15-16</td> <td>-</td> <td>,</td> <td>1</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>6,590</td>			15-16	-	,	1	•	•	•	•	6,590
30-31			20-21	-		-	1	,	•	•	4,680
30-51         - <td></td> <td></td> <td>30-31</td> <td>•</td> <td>-</td> <td>'</td> <td>-</td> <td>1</td> <td>-</td> <td></td> <td>3,190</td>			30-31	•	-	'	-	1	-		3,190
80-51       - <td></td> <td></td> <td>40-41</td> <td>,</td> <td></td> <td>,</td> <td>1</td> <td>,</td> <td>-</td> <td></td> <td>2,340</td>			40-41	,		,	1	,	-		2,340
9/21/2006       0-1       <10.0			50-51				1	1	1	•	851
9/21/2006       0-1       <10.0			60-61	-	,	•	-		-	1	383
9/21/2006         0-1         <10.0         <10.0         <10.0         <10.0         <10.05         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025         <0.025											
3.4       -	BH-3	9/21/2006	0-1	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.025	7,490
5-6         -			3-4	-	ı	•	•	•	P	_	4,680
9-10       -			5-6	,	,		-	1	•	•	4,150
15-16       - <td></td> <td></td> <td>9-10</td> <td></td> <td></td> <td>1</td> <td></td> <td>•</td> <td>-</td> <td>-</td> <td>2,980</td>			9-10			1		•	-	-	2,980
30-21       - <td></td> <td></td> <td>15-16</td> <td>-</td> <td>-</td> <td>-</td> <td>•</td> <td>ı</td> <td>1</td> <td>į,</td> <td>2,550</td>			15-16	-	-	-	•	ı	1	į,	2,550
30-31       - <td></td> <td></td> <td>20-21</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>-</td> <td>•</td> <td>•</td> <td>1,060</td>			20-21	•	•	•	•	-	•	•	1,060
35-36       - <td></td> <td></td> <td>30-31</td> <td>1</td> <td>•</td> <td>-</td> <td>•</td> <td>-</td> <td>_</td> <td>_</td> <td>1,060</td>			30-31	1	•	-	•	-	_	_	1,060
9/21/2006       0-1       - <td< td=""><td></td><td></td><td>35-36</td><td>-</td><td>ŀ</td><td></td><td>•</td><td>ı</td><td>•</td><td>•</td><td>893</td></td<>			35-36	-	ŀ		•	ı	•	•	893
9/21/2006     0-1     -			40-41	-	-	-	•	,	1	4	617
9/21/2006       0-1       - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
	BH-4	9/21/2006	0-1	•	-	•	•	•	ı	1	3,620
			3-4	-	•	•	•	•	•	ŧ	1,020
			9-6	•	,	-	•	-	•		1,020
			9-10	ı	ŀ	-	•	-	-	•	1,280
			20-21	-	•	-	•	•	•	,	936

(-) Not Analyzed

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

Sample ID									Sylone (merke)	Chloride (mg/kg)
BH-5	9/21/2006	0-1	_	-	-		-	4	•	3,620
		3-4	-	•	1	-	-	•	1	718
		2-9	-	•	•	-	-	-	•	851
		12-13	-	-	-	_	-	_	-	936
		20-21	•	-	-	,	-	•	1	1190
BH-6	9/22/2006	0-1	•	•	-	-	-	•	1	7,440
		3.4	•	1	•	-	-	-	-	1,170
		5-6	1	•	1	-	•	-	-	1,060
		10-11	•	•		-	١	•	•	191
BH-7	9/22/2006	0-1	•	-	•	1	. •	-	1	489
		3-4	-	•	-	-	•	_	,	1,620
		5-6	-	,	,	•	-	-	•	1,910
		10-11	•	1	•	_	-	•	•	2,070
		15-16	1	•	1	•	_	•	•	1,970
		20-21	-	•	1	•	-	-	•	489
BH-8	9/22/2006	0-1	-	-	•	-	•	-	ı	<20.0
		9-9	•	ı	-	-	-	-	1	532
		10-11	-	,	-	•	1		1	63.8
		15-16		1			•	•	•	128
BH-9	9/22/2006	0-1	•	-	_	_	•	•	,	702
		3-4	-	•	1	ı	•	•	1	830
		9-9	•	•	-	-	•	•	•	617
		10-11		,	1	•	-	-	•	1,190
		15-16	-	-		'	•	•	•	702
BH-10	9/22/2006	0-1	•	•	-	1	-	,	1	49
		3-4	•	•	-	-	•	1	1	2,340
		9-9	-	•	•	•	-	•	•	723
		10-11	•	-	•	-	•	•	•	362
		15-16	-	•	ı	•	1	ı	1	723

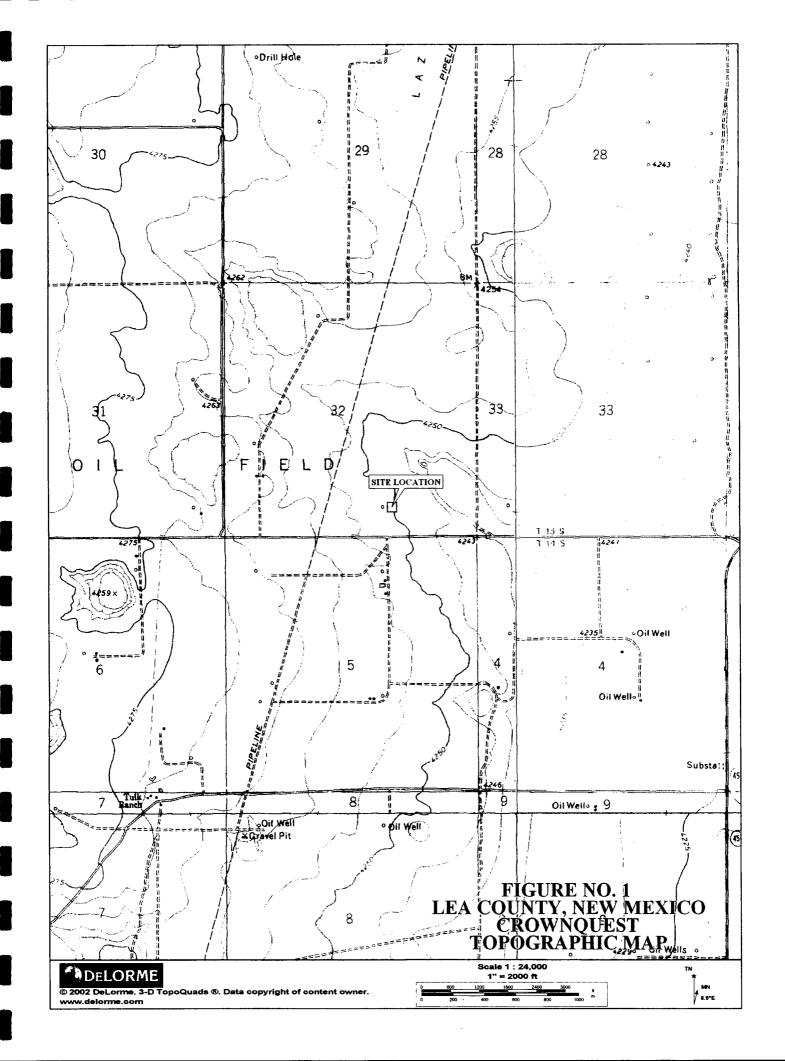
(-) Not Analyzed

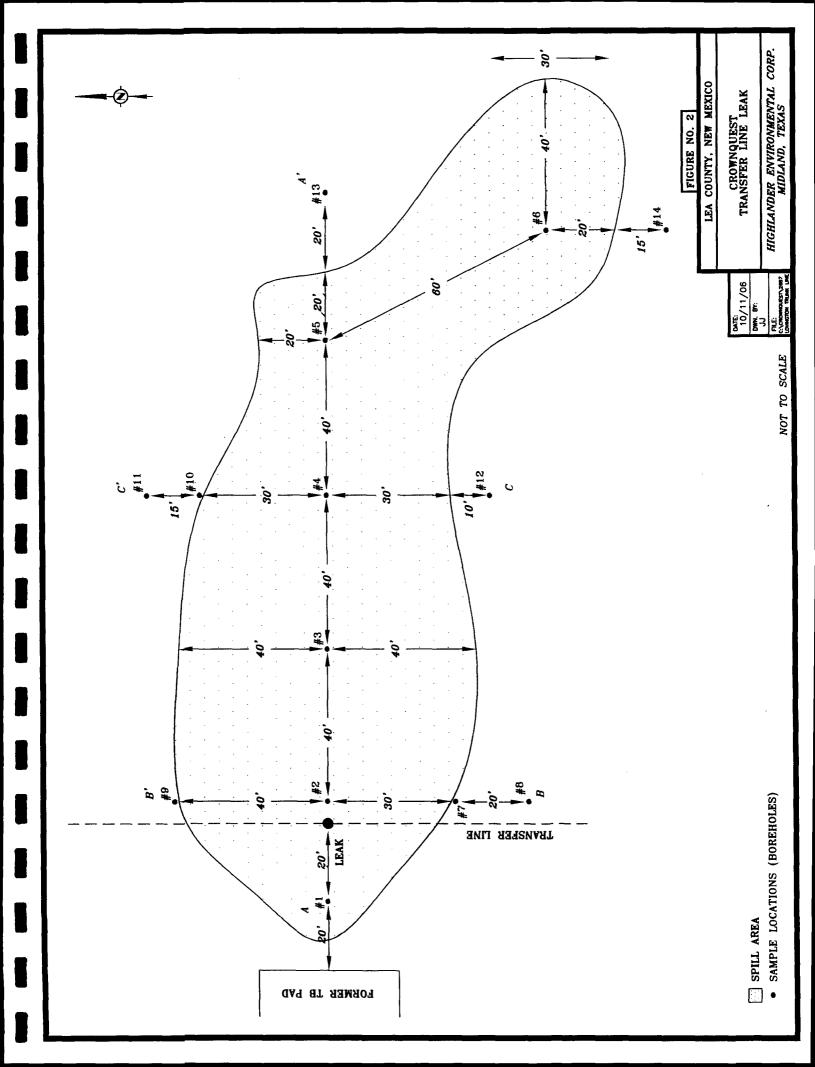
Table 1
Crown Quest Operating L.L.C.
Transfer Line Leak
Lea County,NM

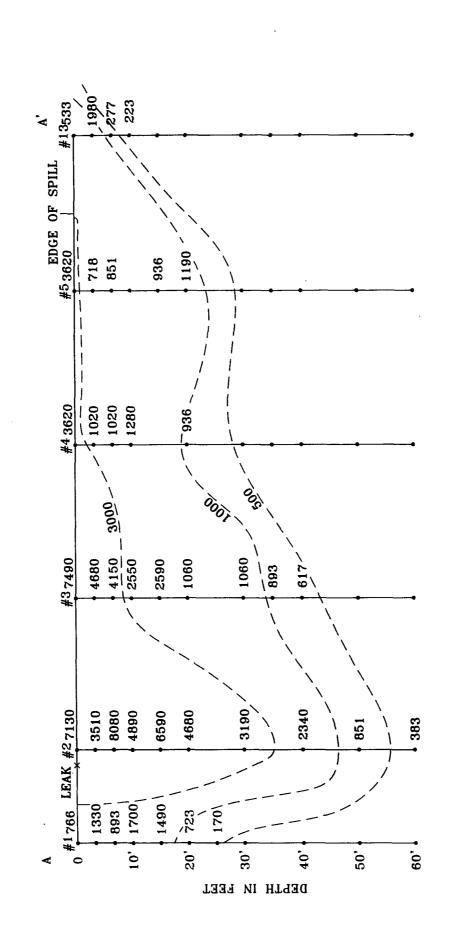
D	Sampled	Dept (R)	Ce-C12	CITCOS	139	(mg/kg)	O Samu	(mg/kg)	(State)	(mg/kg)
	9/22/2006	0-1	٠	•	•	•	,	'	1	<20.0
		3-4	•	•	•	•	-	-	-	2,770
		9-9	t	•	•	,	-	-	-	1,380
		10-11	-	•	-	ı	ŧ	•	_	1,910
		15-16	•		•	1		•	6	63.8
	9/22/2006	0-1		-	•		-	_	-	<20.0
		2-3	•	•	,	•	-	-	-	808
		3-4					•	-	-	787
		5-6	-	•	,		-	•	•	351
		10-11	1		-	1	-	-	-	<20.0
	9/22/2006	0-1			1	•	1	•	-	553
		3-4					,	•	-	1,980
		5-6	-	ı	•		,	ı	-	277
		10-11	,	•	-		ı	•	ŀ	223
	9/22/2006	0-1	,		,		1	-	-	<20.0
		3-4			•		-	-	-	95.7
		9-9		1	•	-	-	-	•	42.5

(-) Not Analyzed

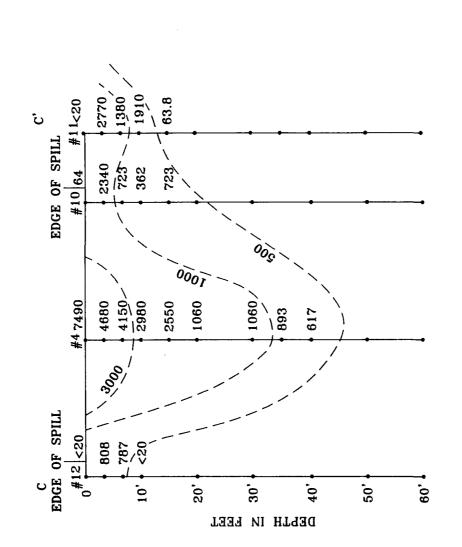
### **FIGURES**







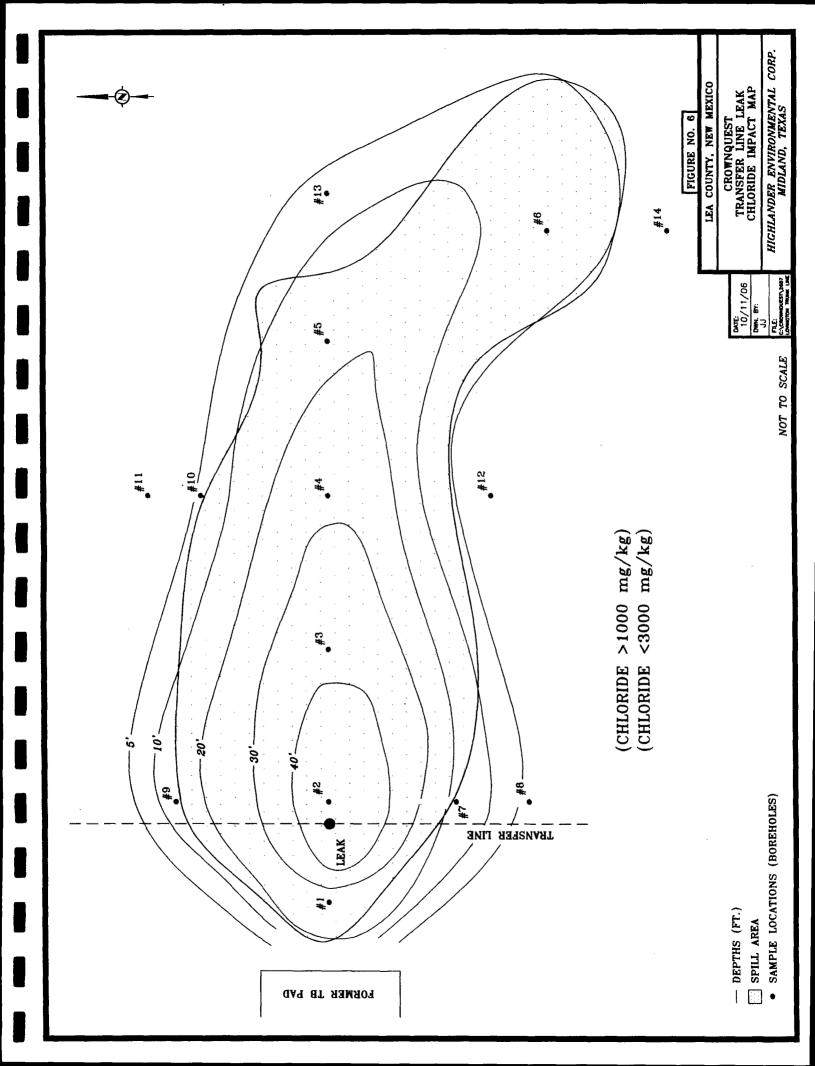
CROWNQUEST TRANSFER LINE LEAK CHLORIDE CROSS SECTION IN (mg/kg) HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS LEA COUNTY, NEW MEXICO FIGURE NO. 4 DATE: 10/13/06 DWN. BY: JU. FILE: FILE: FILE: FILE: GROSS SEC. PG.3 EDGE OF SPILL 1190 49 702 702 830 617 . R 3000 0001 3190 #27130 3510 8080 4890 6590 4680 2340 851 383 EDGE OF SPILL 1910 #7 489 2070 1620 1970 638 #8<20 532 128 10, 50, 30, 40, 50' 60, B 0 DEPTH IN PEET

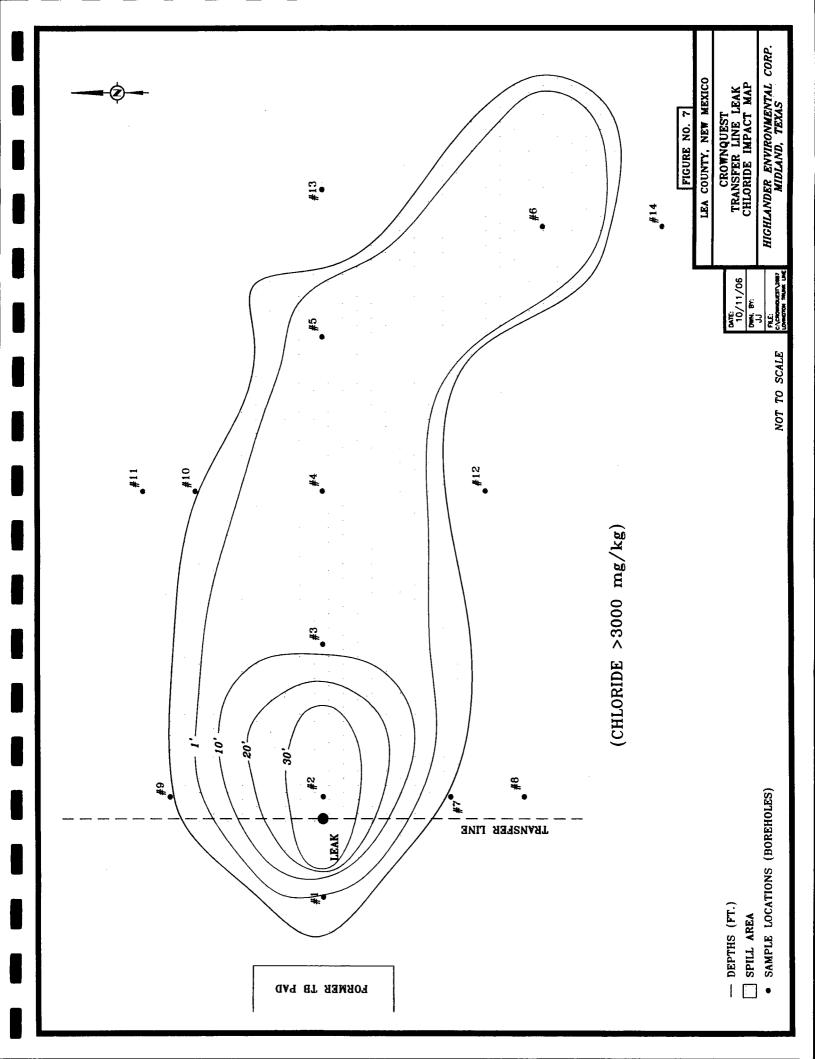


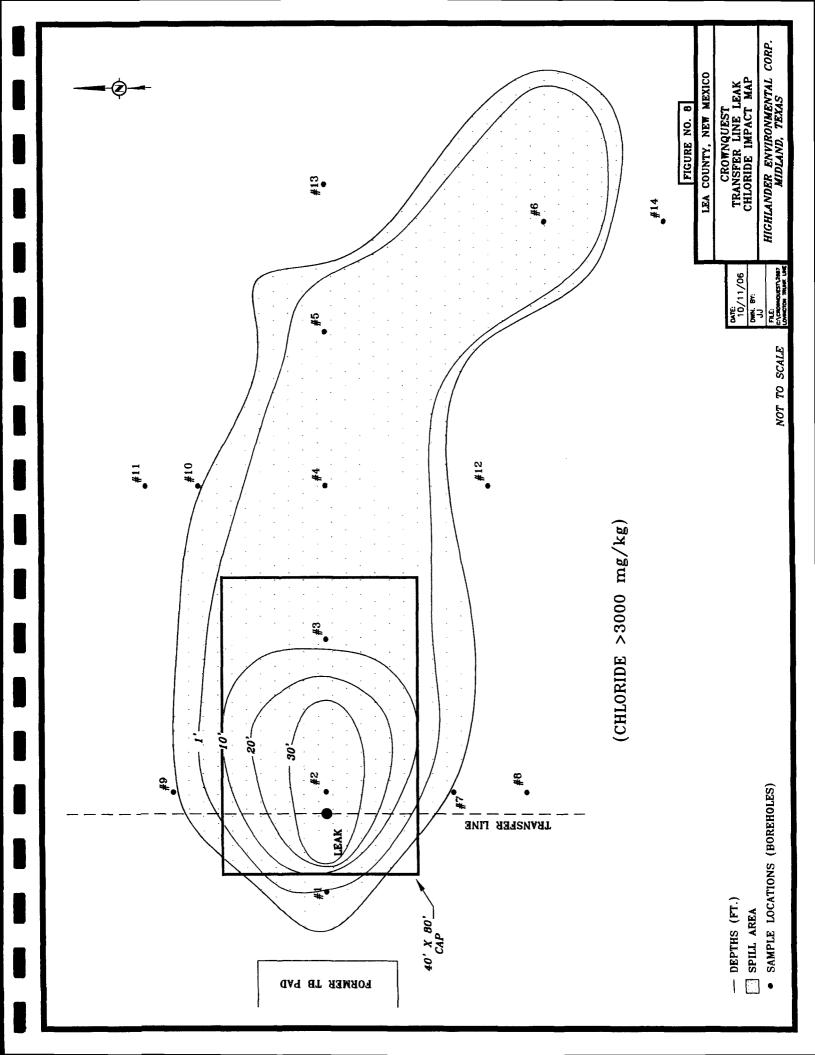
CHLORIDE CROSS SECTION IN (mg/kg) FIGURE NO. 5
LEA COUNTY, NEW MEXICO

HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

DAYE: 10/13/06
DWN. BY:
JJ
FILE: C:\CricomoussY2887
CHOSS SEC. PC.3 50,







### APPENDIX A

**Groundwater Data** 

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

	12 8	South	3	32 East			12 S	outh	3	3 East			12	South	3	34 East	t
3	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
0	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
1	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	13 5	South		32 East		<u> </u>	13 S	outh	3	3 East			13	South		34 East	<u> </u>
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	8	9	10	11	12	7	8	9 95	10 <b>95</b>	11 80	12	7	8	9	10	11	12
8	17	16	15	14	13	18 <b>155</b>	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	<b>135</b> 29	110 28	<b>104</b> 27	85 26 85	25	30	29	28	27	26	25
1	32	33	34	35	36	31 <b>135</b>	32 <b>135</b> SITE	33	34 115	35 <b>87</b>	36	31	32	33	34	35	36
	14.9	South		32 East		135	14 S	outh		3 East	- <u></u>		11	South		34 East	
5	5	4	3	2	1	6 134	5	4	3	2	1	6	5	4	3	2	1
	8	9	10	11	12	133 7	125 8	1 <b>30</b>	<b>102</b>	100 11	12	7	8	9	10	11	12
	١	ľ	]'"	''		144	120	110	1110	90		J'	ľ	ľ	]'`	]''	]'2
8	17	16	15	14	13	18	17	16	15	14	13 <b>80</b>	18	17	16	15	14	13
9	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
0	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
1	32	33	34	35	36	31	32	33	34	35	36	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)

## New Mexico Office of the State Engineer POD Reports and Downloads

Township: 13S	Range: 33E	Sections:			
NAD27 X:	Y:	Zone:		Search Radius:	
County:	Basin:			Number:	Suffix:
Owner Name: (First)	(Las	st) • All	Annual Annua	○Non-Domestic	O Domestic
POD / Su	urface Data Report Wate	er Column Re		to Water Report	כ
	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	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	138	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:	148	Range: 33	SE Sections:		
NAD27 X:		Y:	Zone:	Search Radius:	
County:		Basin:		Number:	Suffix:
Owner Name: (First)	in the Sales of th	,	(Last) • All	○ Non-Domestic	ODomestic
POL	O / Sui	face Data R	eport Water Column R	Avg Depth to Water Report	)
	(	Clear Form	ı iWATER:	S 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 Resources National Water Information System: Web Interface

Data Category: Ground Water Geographic Area: New Mexico

GO

### **Ground-water levels for New Mexico**

Search Results -- 1 sites found

Search Criteria

site\_no list = • 330729103384401

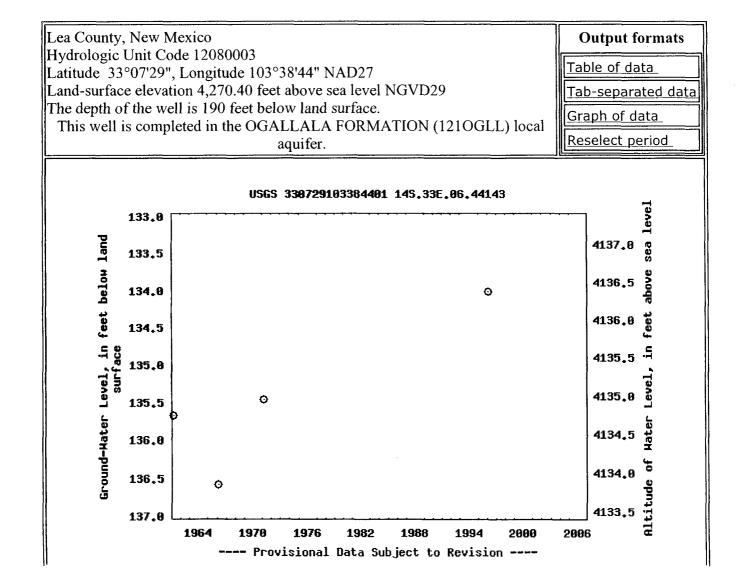
Save file of selected sites to local disk for future upload

USGS 330729103384401 14S.33E.06.44143

Available data for this site

Ground-water: Field measurements

GO



### APPENDIX B

**Aerial Photographs** 



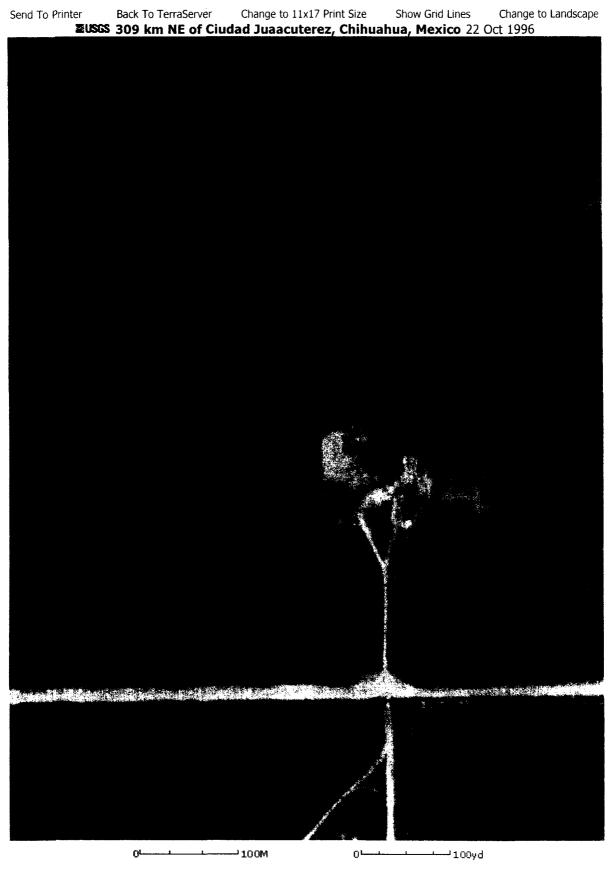
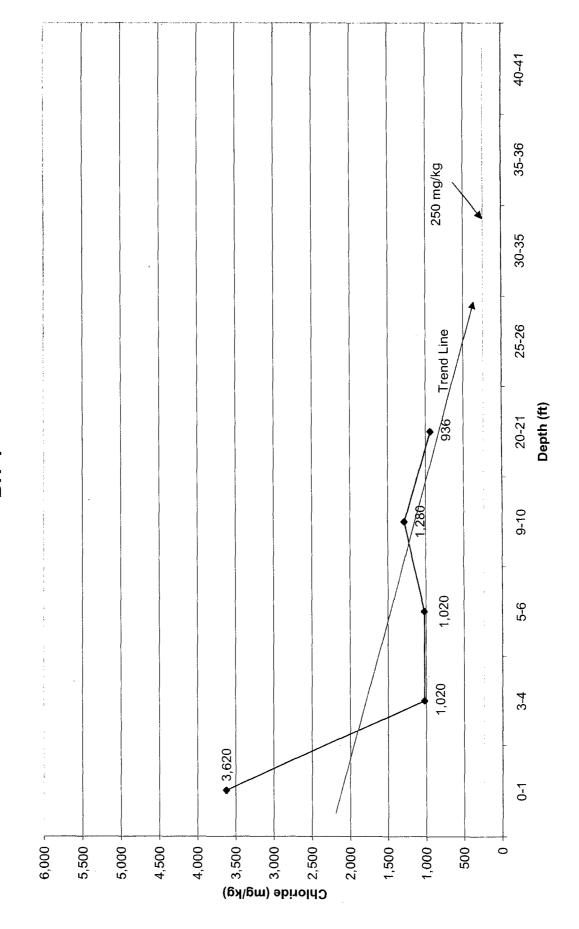


Image courtesy of the U.S. Geological Survey © 2004 Microsoft Corporation. **Terms of Use Privacy Statement** 

### APPENDIX C

**Analytical Data** 

**BH-3** 





## Analytical Report

### Prepared for:

Ike Tavarez
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: 6I26005

Report Date: 10/02/06

Project: Crown Quest/ Transfer Line

1910 N. Big Spring St.

Fax: (432) 682-3946

Midland TX, 79705

Project Number: 2687 Project Manager: Ike Tavarez

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 0-1'	6126005-01	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 3-4'	6126005-02	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 5-6'	6126005-03	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 7-8'	6126005-04	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 10-11'	6126005-05	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 15-16'	6126005-06	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 20-21'	6126005-07	Soil	09/21/06 00:00	09-26-2006 10:30
BH-1 25-26'	6126005-08	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 0-1'	6126005-09	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 3-4'	6126005-10	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 5-6'	6126005-11	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 10-11'	6126005-12	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 15-16'	6126005-13	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 20-21'	6126005-14	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 30-31'	6126005-15	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 40-41'	6126005-16	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 50-51'	6126005-17	Soil	09/21/06 00:00	09-26-2006 10:30
BH-2 60-61'	, 6126005-18	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 0-1'	6126005-19	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 3-4'	6126005-20	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 5-6'	6126005-21	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 9-10'	6126005-22	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 15-16'	6126005-23	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 20-21'	6126005-24	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 30-31'	6126005-25	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 35-36'	6126005-26	Soil	09/21/06 00:00	09-26-2006 10:30
BH-3 40-41'	6126005-27	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 0-1'	6126005-28	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 3-4'	6126005-29	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 5-6'	6126005-30	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 9-10'	6126005-31	Soil	09/21/06 00:00	09-26-2006 10:30
BH-4 20-21'	6126005-32	Soil	09/21/06 00:00	09-26-2006 10:30
BH-5 0-1'	6[26005-33	Soil	09/21/06 00:00	09-26-2006 10:30
BH-5 3-4'	6126005-34	Soil	09/21/06 00:00	09-26-2006 10:30

1910 N. Big Spring St. Midland TX, 79705 Project: Crown Quest/ Transfer Line

Project Number: 2687 Project Manager: Ike Tavarez

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-5 6-7'	6I26005-35	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'	6[26005-4]	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 0-1'	6[26005-42	Soil	09/22/06 00:00	09-26-2006 10:30
BH-7 3-4'	6I26005-43	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-7 5-6'	6126005-44	Soil	09/22/06 00:00	09-26-2006 10:3
BH-7 10-11'	6126005-45	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-7 15-16'	6126005-46	Soil	09/22/06 00:00	09-26-2006 10:3
BH-7 20-21'	6126005-47	Soil	09/22/06 00:00	09-26-2006 10:3
BH-8 0-1'	6126005-48	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-8 5-6'	6126005-49	Soil '	09/22/06 00:00	09-26-2006 10:3
BH-8 10-11'	6126005-50	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-8 15-16'	6126005-51	Soil	09/22/06 00:00	09-26-2006 10:3
BH-9 0-1'	6126005-52	Soil	09/22/06 00:00	09-26-2006 10:3
BH-9 3-4'	6126005-53	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-9 5-6'	6[26005-54	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-9 10-11'	6126005-55	Soil	09/22/06 00:00	09-26-2006 10:3
ВН-9 15-16'	6126005-56	Soil	09/22/06 00:00	09-26-2006 10:3
BH-10 0-1'	6126005-57	Soil	09/22/06 00:00	09-26-2006 10:3
BH-10 3-4'	6126005-58	Soil	09/22/06 00:00	09-26-2006 10:3
BH-10 5-6'	6126005-59	Soil	09/22/06 00:00	09-26-2006 10:
BH-10 10-11'	6126005-60	Soil	09/22/06 00:00	09-26-2006 10:3
BH-10 15-16'	6126005-61	Soil	09/22/06 00:00	09-26-2006 10:
BH-11 0-1'	6126005-62	Soil	09/22/06 00:00	09-26-2006 10:
BH-11 3-4'	6126005-63	Soil	09/22/06 00:00	09-26-2006 10:
BH-11 5-6'	6126005-64	Soil	09/22/06 00:00	09-26-2006 10:
BH-11 10-11'	6I26005-65	Soil	09/22/06 00:00	09-26-2006 10:3
BH-11 15-16'	6126005-66	Soil	09/22/06 00:00	09-26-2006 10:
BH-12 0-1'	6126005-67	Soil	09/22/06 00:00	09-26-2006 10:
BH-12 2-3'	6126005-68	Soil	09/22/06 00:00	09-26-2006 10:3

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.

Fax: (432) 682-3946

Project: Crown Quest/ Transfer Line

1910 N. Big Spring St.

Midland TX, 79705

Project Number: 2687
Project Manager: Ike Tavarez

#### 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

Fax: (432) 682-3946

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

	ъ.	Reporting	11.2		_				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No.
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	11	п	"	n	н	u	
Ethylbenzene	ND	0.0250	**	n	"	"	n	"	
Xylene (p/m)	ND	0.0250	"	,,	u	н	"	"	
Xylene (o)	ND	0.0250	11	0	"	"	11	н	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-1	20	"	n	"	"	
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	н	n	**	н	н	"	
Carbon Ranges C28-C35	40.8	10.0	**	**	н	11		11	
Total Hydrocarbons	124	10.0	"	п	**	и	н	"	
Surrogate: 1-Chlorooctane		100 %	70-1	30	n	,,	"	"	
Surrogate: 1-Chlorooctadecane		84.8 %	70-1	30	n	"	"	"	
BH-2 0-1' (6126005-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI62915	09/29/06	10/01/06	EPA 8021B	
Toluene	ND	0.0250	"	n	**	"	н	п	
Ethylbenzene	ND	0.0250	"	n n	11	**	u	"	
Kylene (p/m)	ND	0.0250	,,	и	u	"	"	n	
Xylene (o)	ND	0.0250	"	н	tr	**	н	и	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E162729	09/27/06	09/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0		"	и	н	**	н	
Carbon Ranges C28-C35	ND	10.0	**	н	u	н	"	n	
Total Hydrocarbons	ND	10.0	п	н	11	11	11	**	
Surrogate: I-Chlorooctane		73.0 %	70-1	30	"	н	"	"	
Surrogate: 1-Chlorooctadecane		90.8 %	70-1	30	"	"	n	"	
BH-3 0-1' (6126005-19) Soil								_	_
Benzene	ND	0.0250	mg/kg dry	25	EI62915	09/29/06	10/01/06	EPA 8021B	
l'oluene l'alle	ND	0.0250	н	"			**	**	
Ethylbenzene	ND	0.0250	n	"	**	11	н	ir	
Xylene (p/m)	ND	0.0250	и	"	**	n	"	**	
Xylene (o)	ND	0.0250	11	n	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.8 %	80-1	20	,,	,,	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-1		"		"	#	
Carbon Ranges C6-C12	ND		mg/kg dry	1	EI62729	09/27/06	09/27/06	EPA 8015M	

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.

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	E162729	09/27/06	09/27/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	n	н	"	**	и	
Total Hydrocarbons	ND	10.0	"	"	**	н	"	н	
Surrogate: 1-Chlorooctane		72.0 %	70-1	30	"	n	"	n	
Surrogate: 1-Chlorooctadecane		89.2 %	70-1	30	n	n	"	"	

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' (6126005-01) Soil				- Ditation	Dateil	Frepared	Analyzed	ivietion	Notes
Chloride	766	20.0	mg/kg Wet	2	E162606	09/26/06	09/26/06	SW 846 9253	
% Moisture	12.8	0.1	%	1	E162701	09/26/06	09/26/06	% calculation	
				•	2.02.0	03/20/00	03/2//00		
BH-1 3-4' (6126005-02) Soil									
Chloride	1330	20.0	mg/kg Wet	2	E162606	09/26/06	09/26/06	SW 846 9253	
DH 1 5 (1/6126005 02) Call									
BH-1 5-6' (6126005-03) Soil						· · · · · · · · · · · · · · · · · · ·		·	
Chloride	893	20.0	mg/kg Wet	2	E162606	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' (6126005-08) Soil									
Chloride	170	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	
BH-2 0-1' (6126005-09) Soil									
Chloride	7130	20.0	mg/kg Wet	2	E162606	09/26/06	09/26/06	SW 846 9253	
% Moisture	12.8	0.1	%	1	E162701	09/26/06	09/27/06	% calculation	
BH-2 3-4' (6126005-10) Soil									
Chloride	3510	20.0	mg/kg Wet	2	EI62606	09/26/06	09/26/06	SW 846 9253	

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 5-6' (6I26005-11) Soil			<u>-</u>						
Chloride	8080	20.0	mg/kg Wet	2	E162703	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' (6126005-13) Soil									
Chloride	6590	20.0	mg/kg Wet	2	E162703	09/27/06	09/27/06	SW 846 9253	
BH-2 20-21' (6I26005-14) Soil									
Chloride	4680	20.0	mg/kg Wet	2	E162703	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' (6126005-16) Soil									
Chloride	2340	20.0	mg/kg Wet	2	E162703	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	E162703	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' (6126005-20) Soil									
Chloride	4680	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	

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**

		Reporting							
Analyte	Result	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	E162703	09/27/06	09/27/06	SW 846 9253	
BH-3 15-16' (6I26005-23) Soil									
Chloride	2550	20.0	mg/kg Wet	2	E162703	09/27/06	09/27/06	SW 846 9253	
BH-3 20-21' (6126005-24) Soil									
Chloride	1060	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 30-31' (6126005-25) Soil									
Chloride	1060	20.0	mg/kg Wet	2	E162703	09/27/06	09/27/06	SW 846 9253	
BH-3 35-36' (6126005-26) Soil									
Chloride	893	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-3 40-41' (6126005-27) Soil									
Chloride	617	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 0-1' (6126005-28) Soil									
Chloride	3620	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 3-4' (6126005-29) Soil									
Chloride	1020	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 5-6' (6126005-30) Soil									
Chloride	1020	20.0	mg/kg Wet	2	EI62703	09/27/06	09/27/06	SW 846 9253	
BH-4 9-10' (6126005-31) Soil									
Chloride	1280	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	

Project: Crown Quest/ Transfer Line

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1910 N. Big Spring St. Midland TX, 79705

Project Number: 2687

Project Manager: Ike Tavarez

Analyte	Result	· Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 20-21' (6I26005-32) Soil				- Diumon	Daton	7 Topared	Analyzed		110103
Chloride	936	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-5 0-1' (6126005-33) Soil									
Chloride	3620	20.0	mg/kg Wet	2	E162704	09/26/06	09/27/06	SW 846 9253	
BH-5 3-4' (6126005-34) Soil									
Chloride	718	20.0	mg/kg Wet	2	E162704	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' (6I26005-36) 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	El62704	09/26/06	09/27/06	SW 846 9253	
BH-6 10-11' (6I26005-41) Soil									
Chloride	191	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-7 0-1' (6I26005-42) Soil									
Chloride	489	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	

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

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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	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-7 5-6' (6126005-44) Soil									
Chloride	1910	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-7 10-11' (6126005-45) Soil									
Chloride	2070	20.0	mg/kg Wet	2	EI62704	09/26/06	09/27/06	SW 846 9253	
BH-7 15-16' (6126005-46) Soil									
Chloride	1970	20.0	mg/kg Wet	2	EI62704	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	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-9 0-1' (6126005-52) Soil									
Chloride	702	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-9 3-4' (6126005-53) Soil									
Chloride	830	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	

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Project Number: 2687
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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	E162705	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						ü			
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	E162705	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	E162705	09/26/06	09/27/06	SW 846 9253	
BH-11 3-4' (6I26005-63) Soil									
Chloride	2770	20.0	mg/kg Wet	2	E162705	09/26/06	09/27/06	SW 846 9253	
BH-11 5-6' (6I26005-64) Soil									
Chloride	1380	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	

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Project Number: 2687 Project Manager: Ike Tavarez Fax: (432) 682-3946

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-11 10-11' (6I26005-65) Soil									
Chloride	1910	20.0	mg/kg Wet	2	EI62705	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' (6I26005-67) 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' (6I26005-70) Soil									
Chloride	351	20.0	mg/kg Wet	2	EI62705	09/26/06	09/27/06	SW 846 9253	
BH-12 10-11' (6126005-71) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EI62706	09/26/06	09/27/06	SW 846 9253	
BH-13 0-1' (6126005-72) Soil									
Chloride	553	20.0	mg/kg Wet	2	EI62706	09/26/06	09/27/06	SW 846 9253	
BH-13 3-4' (6126005-73) Soil									
Chloride	1980	20.0	mg/kg Wet	2	EI62706	09/26/06	09/27/06	SW 846 9253	
BH-13 5-6' (6I26005-74) 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	EI62706	09/26/06	09/27/06	SW 846 9253	

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Analyte	Result	Reporting Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-14 0-1' (6126005-76) Soil								
Chloride	ND	20,0 mg/kg	Vet 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	Vet 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	

1910 N. Big Spring St. Midland TX, 79705 Project: Crown Quest/ Transfer Line

Project Number: 2687 Project Manager: Ike Tavarez Fax: (432) 682-3946

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	II .							
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 &	z 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	n	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 A	nalyzed: 09	9/29/06			
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)	Sou	ırce: 6125012	-05	Prepared: (	09/27/06 A	nalyzed: 09	9/29/06			
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	11	1090	ND	88.9	75-125			
Surrogate: 1-Chlorooctane	58.9		mg kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	42.5		n	50.0		85.0	70-130			

1910 N. Big Spring St. Midland TX, 79705 Project: Crown Quest/ Transfer Line

Project Number: 2687
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Anglista	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Result	70KEC	Limits	KFD	Lunt	notes
Batch EI62718 - Solvent Extraction (GC)										
Matrix Spike Dup (EI62718-MSD1)	Sour	rce: 6125012-	05	Prepared: (	09/27/06 Aı	nalyzed: 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	н	545	ND	83.9	75-125	0.219	20	
Carbon Ranges C28-C35	ND	10.0	n	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 &	k Analyzed:	09/27/06				
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	II							
Carbon Ranges C28-C35	ND	10.0	n							
Total Hydrocarbons	ND	10.0	11							
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 8	દે 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	п	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 A	nalyzed: 09	9/28/06			
Carbon Ranges C6-C12	276		mg/kg	250		110	80-120			
Carbon Ranges C12-C28	228		н	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			

1910 N. Big Spring St. Midland TX, 79705 Project: Crown Quest/ Transfer Line

Project Number: 2687
Project Manager: Ike Tavarez

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI62729 - Solvent Extraction (GC)										
Matrix Spike (EI62729-MS1)	Sour	ce: 6126005-	19	Prepared &	k 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	n	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 (E162729-MSD1)	Sour	ce: 6126005-	19	Prepared &	k 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	ıı .	0.00	ND		75-125		20	
Total Hydrocarbons	1150	10.0	'n	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		n	50.0		102	70-130			
Batch EI62915 - EPA 5030C (GC)										
Blank (EI62915-BLK1)				Prepared: (	09/29/06 A	nalyzed: 10	)/01/06			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	**							
Ethylbenzene	ND	0.0250	n							
Xylene (p/m)	ND	0.0250	H							
Xylene (o)	ND	0.0250	н							
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 (El62915-BS1)				Prepared:	09/29/06 A	nalyzed: 09	9/30/06			
Benzene	1.19	0.0250	mg/kg wet	1.25		95.2	80-120			-
Toluene	1.06	0.0250	н	1.25		84.8	80-120			
	1.00	0.0250	H.	1.25		81.6	80-120			
Ethylbenzene	1.02	0.0230								
Ethylbenzene Xylene (p/m)	2.17	0.0250	**	2.50		86.8	80-120			
•			11	2.50 1.25		86.8 83.2	80-120 80-120			
Xylene (p/m)	2.17	0.0250								

1910 N. Big Spring St. Midland TX, 79705 Project: Crown Quest/ Transfer Line

Project Number: 2687
Project Manager: Ike Tavarez

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI62915 - EPA 5030C (GC)		<u> </u>								
Calibration Check (EI62915-CCV1)				Prepared: (	09/29/06 A	nalyzed: 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		n	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)	Sou	rce: 6126005	-19	Prepared: 0	09/29/06 A	nalyzed: 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	11	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)	Sou	rce: 6126005	-19	Prepared: (	09/29/06 A	nalyzed: 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	n	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	0.18	80-120	6.45	20	
Surrogate: a,a,a-Trifluorotoluene	35.8		ug kg	40.0		89.5	80-120			
Surrogate: 4-Bromofluorohenzene	45.0		"	40.0		112	80-120			

Project: Crown Quest/ Transfer Line

1910 N. Big Spring St.

Project Number: 2687

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Midland TX, 79705

Project Manager: Ike Tavarez

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI62606 - Water Extraction										
Blank (EI62606-BLK1)				Prepared &	k Analyzed:	09/26/06				
Chloride	ND	20.0	mg/kg Wet							
LCS (EI62606-BS1)				Prepared &	k Analyzed:	09/26/06				
Chloride	91.5		mg/kg	100		91.5	80-120			-
Matrix Spike (EI62606-MS1)	Sou	rce: 6I26003	-01	Prepared &	& Analyzed:	09/26/06				
Chloride	7280	20.0	mg/kg Wet	500	6810	94.0	80-120			
Matrix Spike Dup (EI62606-MSD1)	Sou	rce: 6126003	-01	Prepared 8	k Analyzed:	09/26/06				
Chloride	7340	20.0	mg/kg Wet	500	6810	106	80-120	0.821	20	
Reference (E162606-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 A	nalyzed: 09	0/27/06			
% Solids	100		%							
Duplicate (EI62701-DUP1)	Sou	rce: 6]25014	-01	Prepared:	09/26/06 A	nalyzed: 09	9/27/06			
% Solids	98.0		%	***	98.2	······		0.204	20	
Duplicate (EI62701-DUP2)	Sou	rce: 6126005	5-01	Prepared:	09/26/06 A	.nalyzed: 09	9/27/06	,	i	
% 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							

Project: Crown Quest/ Transfer Line

1910 N. Big Spring St.

Project Number: 2687

Fax: (432) 682-3946

Midland TX, 79705

Project Manager: Ike Tavarez

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

•		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI62703 - Water Extraction								INF.		
LCS (EI62703-BS1)				Prepared 8	k Analyzed:	09/27/06				
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120			
Matrix Spike (EI62703-MS1)	Source	e: 6126005-	-12	Prepared &	k Analyzed:	09/27/06				
Chloride	5420	20.0	mg/kg Wet	500	4890	106	80-120			
Matrix Spike Dup (EI62703-MSD1)	Sourc	e: 6126005-	-12	Prepared &	k Analyzed:	09/27/06				
Chloride	5420	20.0	mg/kg Wet	500	4890	106	80-120	0.00	20	
Reference (EI62703-SRM1)				Prepared &	k 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	e: 6126005	-32	Prepared:	09/26/06 A	nalyzed: 09	9/27/06			
Chloride	1450	20.0	mg/kg Wet	500	936	103	80-120			
Matrix Spike Dup (EI62704-MSD1)	Source	e: 6126005	-32	Prepared:	09/26/06 A	nalyzed: 09	9/27/06			
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			

Project: Crown Quest/ Transfer Line

1910 N. Big Spring St.

Project Number: 2687

Fax: (432) 682-3946

Midland TX, 79705 Pro

Project Manager: Ike Tavarez

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI62705 - Water Extraction		Le santa			<u> </u>					
Blank (EI62705-BLK1)				Prepared &	2 Analyzed:	09/27/06				
Chloride	ND	20.0	mg/kg Wet							
LCS (EI62705-BS1)				Prepared &	k Analyzed:	09/27/06				
Chloride	92.5	5.00	mg/kg Wet	100		92.5	80-120			
Matrix Spike (EI62705-MS1)	Sour	ce: 6126005	-53	Prepared: (	09/26/06 Aı	nalyzed: 09	0/27/06			
Chloride	1340	20.0	mg/kg Wet	500	830	102	80-120			
Matrix Spike Dup (EI62705-MSD1)	Sour	ce: 6126005	-53	Prepared: (	09/26/06 A	nalyzed: 09	9/27/06			
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 (E162706-BLK1)				Prepared &	k 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			- 70
Matrix Spike (EI62706-MS1)	Sour	ce: 6125011	-01	Prepared:	09/26/06 A	nalyzed: 09	9/27/06			
Chloride	9680	20.0	mg/kg Wet	500	9150	106	80-120			
Matrix Spike Dup (EI62706-MSD1)	Sour	ce: 6125011	-01	Prepared:	09/26/06 A	nalyzed: 09	9/27/06			
Chloride	9680	20.0	mg/kg Wet	500	9150	106	80-120	0.00	20	

Project: Crown Quest/ Transfer Line

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2687 Project Manager: Ike Tavarez

General Chemistry Parameters by EPA / Standard Methods - Quality Control

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EI62706 - Water Extraction

Reference (EI62706-SRM1)			Prepared & A	nalyzed: 09/27/06		
Chloride	50.0	mg/kg	50.0	100	80-120	

Project: Crown Quest/ Transfer Line

1910 N. Big Spring St.

Midland TX, 79705 Project Manag

Fax: (432) 682-3946

Project Number: 2687
Project Manager: Ike Tavarez

### 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 Kolub
Report Approved by:	•

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.

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

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7		୍ କ	'	SITE, MANEGER	PROJECT NAME: NET	нчнэ	1 PH-10	11-42	11-42	11-418 1	111101	11-HQ;	21-H4-12	21-114	-1-HO-	21-HQ	Date: 9/36/0	Date: Time:	Date:	7,	ME: ZIP:	MATRIN retains yallow
ì	Alialysis nequest	HIGHLANDER 1910 Midl	(432) 682-4559	Guest.	182	DATE THE MATRIX COOMP.	2000	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	100	V	h	- 1	N.	10	<b>V</b>	RELINQUISHED BY: (Signature)	RELINGERSTED BY: (Signature)	RELINGUISHED BY: (Signature)	RECEIVING LABORATORY:	STATE: PHONE:	IDITION RHEN REC
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HIGHLIA  (432) 682-4559  CLIENT NAME: PROJECT NO. C. C. T.  LAB I.D. NUMBER  N	GH (28 2-45)	XISTIAN	HIGHLANDER 1910 N 2) 682-4559 Midlan NO.: CET PROTECT NAME: NO.: CET PROTECT NAME: NO.: CET PROTECT NAME:	N. N. S.	NVIRONME Big Spring St. Texas 79705	NTA	MUMBER OF CONTAINERS HUCE HUOD HCE HUOD HCE HOOD HEREFRAI HTTHOD	HIVOS PRESES PRE	PRESERVATIVE LETHOD HOOF HOOF HOOF HOOF HOOF HOOF HOOF H	MIN 8020/803	TPH 418.1 8015 MOD. TXL006 PAH 6870	LCIP Volatiles  TCIP Wishing Ag As Ba Cd Cr Pd Hg Se 5	P Sent Volatiles	RCI CC.MS Vol. BEAO/B260/62A  GG.MS Somi. Vol. 6270/625  CC.MS Somi. Vol. 6270/625  CC.MS Somi. Vol. 6270/625  GG.MS Top. 700/626  GG.MS Top. 700/626  GG.MS Top. 700/626	Peat. 808/808	BOD, T3S, pH, TDS, Chleride Genma Spec.	(
6-20	2	<u>~</u>	N/A	7/2	11-01		_									یع	
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PRINQUISHED BY: (Signature)	(Ngnatı	(E)	Date:	1. 1.	RECEIVED BY: (Signature)	(Signature)		Date:			HAND DELIVERED	- K		San	6	OTHER: Results by:	🕦
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CONTACT		STATE: PHONE.	NR.	ZIP:	DATE: 2/1	24/06	C) Linux	10:36	80		Ž.	:  \	,	,		Auth Yes	ğ .
SAMPLE CONDITION BHEN PROFIUM	S CONTRACT	Sections		14160000				DAILY A LIBER	i								

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ent:	Highlander				
ie/ Time:	9/210/04 10:30				
 .ID#:	(et 2100				
ials:	Ck.				
ais.					
	Sample Receipt C	hecklist			
	•				lient Initials
Tempera	ature of container/ cooler?	Yes	No	3,0 °C	
	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	
	Custody present?	)Xes	No		
	instructions complete of Chain of Custody?	¥€\$	No		
	Custody signed when relinquished/ received?	YPS	No		
	Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	*
	er label(s) legible and intact?	Yæs,	No	Not Applicable	
	matrix/ properties agree with Chain of Custody?	Xes	No		
	ers supplied by ELOT?	Yes	140		
	s in proper container/ bottle?	<b>Fes</b>	No	See Below	
	s properly preserved?	Ø€s	No	See Below	
	bottles intact?	res	No		
5 Preser	vations documented on Chain of Custody?	Yes	No		
	ners documented on Chain of Custody?	/es	No		
7 Sufficie	ent sample amount for indicated test(s)?	Ves,	No	See Below	
8 All sam	ples received within sufficient hold time?	(Fes,	No	See Below	
9 VOCs	amples have zero headspace?	Yes	No	Not Applicable	
ontact: egarding:	Variance Docum  IKe Tavarez Contacted by: Jean  #8 Sample id discrepa	ne ma	Nurren	, Date/ Time:	09-28-00
	ction Taken: Client works to reference	COC 4	Feld (	ode	
		· · · · · · · · · · · · · · · · · · ·			
heck all th	See attached e-mail fax  Client understands and would  Cooling process had begun s				•

## 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

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.

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

Release Notification and Corrective Action													
			OPERATOR 🗵				Initial Report						
Name of Co			Contact Luke Dunn										
Address P		Telephone No. 432-685-3116											
Facility Na	me Water t	ransfer line				Facility Type Water disposal							
Surface Ow	ner Norma	State of New Mexico Lease No. N/A (not on a lease)						a lease)					
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/We	st Line	County			
0	32   13S   33E   660   Sout				South		2200	West		Lea			
	<u>.</u>		l		l								
	NATURE OF RELEASE												
-CD-1-	D-i W			NAI	UKE			<del></del>	7.1		16 66	1	
Type of Release Brine Water  Source of Release Produced brine water from several leases							Volume of Release ?? Volume Recovered ~15 bbls  Date and Hour of Occurrence ?? Date and Hour of Discovery 5/18/06 @						
Source of Release Froduced of the water from several leases							3 pm						
Was Immediate Notice Given?  ☐ Yes ☐ No ☐ 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?  ☐ Yes ⋈ No							If YES, Volume Impacting the Watercourse.						
	<del></del>					<u> </u>							
If a Watercourse was Impacted, Describe Fully.*													
												1	
Described on a Charles and Described Asia, Tales 6													
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.*													
							knowledge and u						
							nd perform correct arked as "Final Re						
should their o	perations ha	ve failed to a	dequately	investigate and r	emediat	e contaminati	on that pose a thre	eat to grou	ind water	r, surface wat	ter, h	uman health	
				tance of a C-141	report d	oes not reliev	e the operator of i	responsibi	lity for c	ompliance w	ith ar	y other	
federal, state,	or local law	s and/or regu	nations.		—т		OIL CON	CEDVA	TION	DIVISIO	NI		
		7)					OIL CON.	SEIC A W	TIOIA	17171310	17		
Signature:							ENU I	20 ENCE	<u>.</u>				
Brinted Names, Luke Duar						Approved by District Supervisors							
Printed Name: Luke Dunn							<del></del>		-407		<del></del>		
Title: Consu	ltant			<del></del>		Approval Dat	e: 11-20 0	6 Ex	piration	Date: Z-	20	0.07	
	14. 0					On this case of Assess						ļ	
-E-mail Addre	ess: Idunn(a)	crownquest.c	Conditions of Approval:				Attached						
Attach Additional Sheets If Necessary  Mident - NPAC 0633332779  Jacilty - FPAC 0633332683											1		
Attach Addi	tional Sheet	s If Necess	ary	2000				(	MA	toa (	7		
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