		SITE	INFORMATION	
General Site Info	ormation:			
Site:		Unnamed Later	al Line of the C-line (active)	
Company:			eld Services, LP	
Section, Townshi	ip and Range	Section 33, T17	S, R33 E	
Unit Letter:		D		
Lease Number:				
County:		Lea		
GPS:		32° 47' 41.7", 1		
Surface Owner:		State of New Me		
Mineral Owner:		State of New Mo		
Directions:		Site located appro	ox. 5.0 miles southwest of Malj	amar
		From intersection	of 238 and 529, go west 17.4	miles on 529, turn right (north) on
		Doglake road (pa	ved road), go 0.5 miles and tui	n right (east) on lease, road located
		before CR 125, fo	ollow main lease road 0.5 miles	and turn right (at Y), take road to right
		go approx. 0.1 mi	to Wyatt Fed. #2 Conoco Phil	ips TB, spill west of TB on lease rd.
Release Data:		Contaction of		
Date Released:		12/10/2004		
Type Release:		condensate		
Source of Contar	nination:	Pipeline failure		
Fluid Released:		Estimated 11 ba	arrels	
Fluids Recovered		0 barrels		
Official Commu	nication:			
Name:	Lyne Ward			ike Tavarez
Company:	Duke Energy I	Field Services, LP		Highlander Environmental Corp.
Address:	10 Desta Dr. S	Suite 10		1910 N. Big Spring
P.O. Box				
City:	Midland Texas	s, 79705		Midland, Texas
Phone number:	(432) 620-420	7		(432) 692- 4559
Fax:	(432) 620-416	2		
Email:		e-energy.com		itavarez@hec-enviro.com

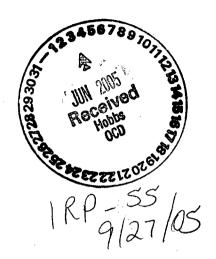
Depth to Groundwater:		Ranking Score		Site Data	
<50 ft		20			
50-99 ft		10			
>100 ft.		0		Average Depth >100	BS
WellHead Protection:	<del></del>	Ranking Score		Site Data	
Water Source <1,000 ft., Private <200 ft.		20		None	
Water Source >1,000 ft., Private >200 ft.		0			
Surface Body of Water:		Ranking Score		Site Data	
<200 ft.		20		None	14.115.
200 ft - 1,000 ft.		10		None	<b>~</b>
>1,000 ft.		0		<u> </u>	<b>19</b> ,
Total Ranking Score:		0		/4/ / <b>©</b>	`%3 √
Acc	eptable S	oli RRAL (mg/kg)		3 45	Ŝ
Name of the last o	enzene	Total BTEX	TPH	6	75 5 TO
[ B	Biizeiie	I I Utal DILA	11717	100	30



Midland, Texas

May 26, 2005

Mr. Larry Johnson Environmental Engineer Specialist Oil Conservation Division- District I 1625 N. French Drive P. O. Box 1980 Hobbs, New Mexico 88240



RE: Assessment and Closure Report for the Duke Energy Field Services, L.P., Unnamed Lateral of the C Line (active) Located in Section 33, Township 17 South, Range 33 East, Lea County, New Mexico

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Duke Energy Field Services, L.P. (Duke) to assess a spill on the Unnamed Lateral of the C Line (active) located in Section 33, Township 17 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are N 32° 47′ 41.8″, W 103° 40′ 27.5″. The State of New Mexico C-141 (Initial) is shown in Appendix A. The Site is shown in Figure 1.

#### **Background**

According to the State of New Mexico C-141 report, the spill occurred on December 10, 2004 from a rupture of a low pressure pipeline. The volume of the release was estimated at 11 barrels of water and condensate and none recovered. Most of the fluid ran down a lease road, in an area, which measured approximately 1,000 feet long at an average width of 2.0 feet.

#### **Groundwater and Regulatory**

The New Mexico State Engineer Office database shows a well in Section 20, Township 17 South, Range 33 East, with a reported depth to water of 190'. The New Mexico State Engineer well reports are shown in Appendix B. A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (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 upon the depth to groundwater, the proposed RRAL

for TPH is 5,000 mg/kg.

#### **Soil Assessment**

On January 12, 2005, Highlander personnel inspected and collected soil samples from the spill area using a stainless steel, bucket type, hand auger. The majority of the spill was on the lease road and measured approximately 1,000 feet long, at an average width of 2.0 feet. A total of four (4) auger holes were installed to evaluate the subsurface soils. The spill area and auger hole locations are shown on Figure 2. Soil samples were collected at 0-1' and 1-1.5' below surface for analysis of TPH by method 8015M, BTEX by method 8021B and chloride by method SW 846-9252. The soil sample results are shown in Table 1. The laboratory reports and the chain of custody documentation are included in Appendix C.

Referring to Table 1, auger holes (AH-1 and AH-2) exceeded the RRAL total BTEX at 0-1' below surface. In addition, AH-1 exceeded the TPH at 0-1'. The deeper samples at 1-1.5' did not exceed the RRAL for TPH or BTEX. The remaining auger holes (AH-3 and AH-4) did not exceed the RRAL for TPH or BTEX. The chloride concentrations detected are not considered an environmental concern.

#### **Corrective Action and Sampling**

Due to the shallow impact at the Site, Duke proposed to remediate the impacted soil in-situ. The soil remediation consisted of working the soils in place using a backhoe. The spill area was then segregated into three areas (#1, #2 and #3) for sampling. The segregated areas are shown on Figure 2. On March 3, 2005 and May 6, 2005, the impacted areas were worked and sampled for evaluation. The results are summarized in Table 1. The laboratory reports and chain of custody are included in Appendix C. Referring to Table 1, the confirmation samples collected were all below the RRAL for TPH and BTEX.

#### **Conclusions**

The TPH and BTEX confirmation sampling did not show any significant residual hydrocarbon impact above the RRAL. The chloride concentrations do not appear to be an environmental concern. Based upon the results of sampling and work performed on this Site, Duke requests closure of this spill issue. The State of New Mexico C-141 (Final) is shown in Appendix A.

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

HIGHLANDER ENVIRONMENTAL CORP.

Ike Tavarez, P.G.

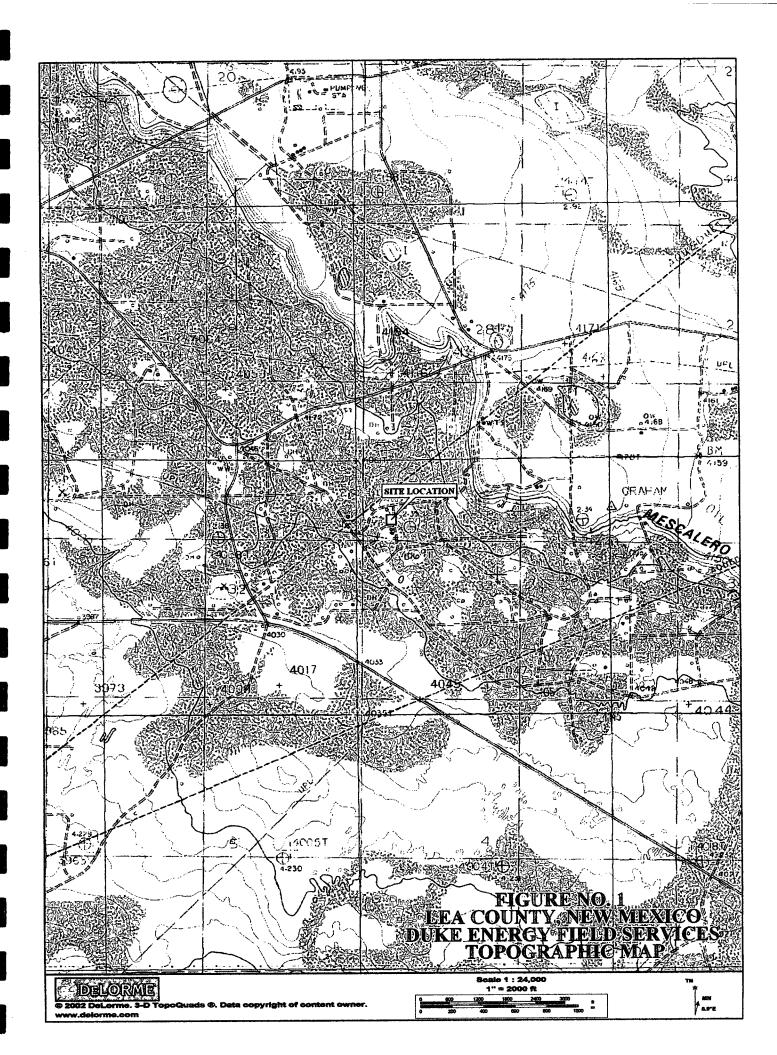
Project Manager/Senior Geologist

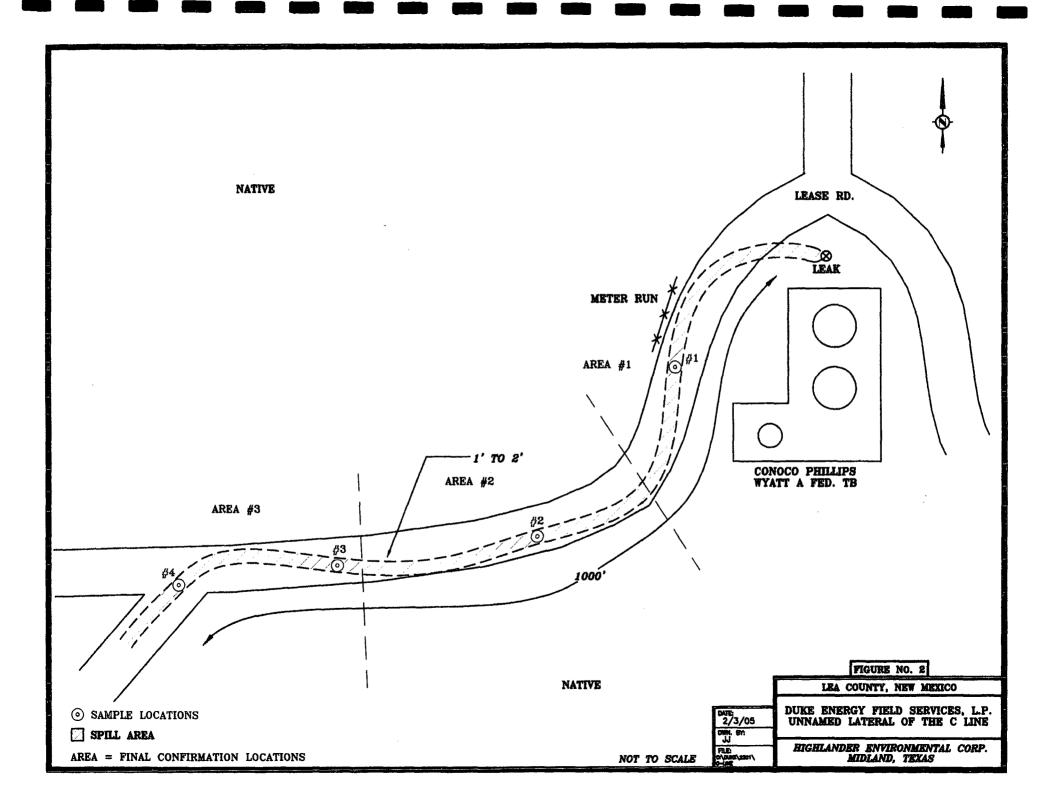


cc:

Lynn Ward - Duke

## **FIGURES**





## **TABLE**

Table 1
Duke Energy Field Service, LP
Unname Lateral of the C- Line (Active)

Section 33, Township 17 South, Range 33 East Lea County, New Mexico

Sample	Date	Sample		TPH (mg/kg)	<del></del>	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
ID	Sampled	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
#1	1/12/2005	0-0.5	2,190	3,020	5,210	9.57	105	74.1	104.6	293.27	42.5
	1/12/2005	1-1.5	<10.0	47.8	47.8	<0.025	<0.025	<0.025	<0.025	<0.025	149
#2	1/12/2005	0-0.5	1,150	2,130	3,280	0.0838	11.1	19.2	27.85	58.23	234
	1/12/2005	1-1.5	16.3	102	118	<0.025	< 0.025	<0.025	<0.025	<0.025	255
#3	1/12/2005	0-0.5	<10.0	28.7	28.7	_	-	-	-	•	510
	1/12/2005	1-1.5	<10.0	41.4	41.4	-		-	-	-	234
#4	1/12/2005	0-0.5	337	973	1,310	-	-	-	-	-	596
	1/12/2005	1-1.5	<10.0	38.6	38.6	-	-	-	-	•	<20.0
inal Confirr	l nation Samplin	g			······································						
Area l	3/3/2005	Composite	-	-	-	0.868	13.8	11.6	18.66	44.92	-
Area l	5/6/2005	Composite	160	1340	1500	<0.025	<0.025	<0.025	0.1307	0.1307	-
Area 2	3/3/2005	Composite	<u>-</u>	-		0.549	19.6	23.1	47.2	90.44	-
Area 2	5/6/2005	Composite	-	-	+	<0.025	0.139	0.576	2.01	2.73	
Area 3	3/3/2005	Composite	<u>.</u>	-	-	<0.025	<0.025	0.0338	0.141	0.1748	-

## APPENDIX A

New Mexico Oil Conservation Division - Form C-141 Release Notification and Corrective Action

" Kevisea March 17. 1999

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

#### Release Notification and Corrective Action

					OPER	ATOR		K Ini	tial Rep	oxt	Final Report
Name of Co						Contact					
Duke Energy	y Field Se	rvices, LP				Lynn Wa	rd/Ronnie Gilch	rest			
Address						Telephon	e No.				
10 Desta Dr.	Suite 10	, Midland, T	X 79705	5		432/620-	1207		_		
Facility Nan	ne					Facility T	ype				
Unnamed La	ateral of th	ne C Line (A	ctive)			Pipeline					
Surface Own	ner			TM	lineral Owner				Lease	No.D	
State of New					tate of New M				2000		
0.2.10	1.10.000				CATION		EASÉ		<del>-1</del>		
Unit Letter	Section	Township	Range	Feet from		South Line	Feet from the	East/Wes	t Line	County	
DAR BORD	33	178	33E	7 000 13 013	1 1011111	50010 30110	1,000,000,000		2	Lea Cou	nty
<u>.                                    </u>	L	17.4.	<u> </u>	738 (4	76071	-	itade 103	3 * //A	400	10/	
		Jar	that		ATURE O			- <del></del>	736	V	
Type of Relea	ace.			144	AT DICE O	Volume of		Т	Volum	e Recovere	-d
Condensate	2,10					Estimated			0	- 1(000 / 201	
Source of Rel							lour of Occurrence	:c			Discovery
Pipeline failu							3:45 pm MST		12/10/0	4 @ 3:45	pm MST
Was Inunedia	ate Notice C		Yes	No K	Not Required	If YES, To	whom? binson, Hobbs Di	etriet Offic	• OCD		
		,	( 162	140 🗡	IAGI VOCUITCO	ontainy &o	oinson, Piddos Di		e, ocd		
By Whom?	7.70					Date and H					
Lynn Ward[]					·		5:30 pm MST				
Was a Waterc	course Reac	hed?	\	1			olume Impacting (	he Watered	ourse.		
			-	(No		NA					
If a Watercou	rse was lm	pacted, Descri	ibe Fully.	1				•			
NA											
Doomiba Com	so of Beable	and Remo	dial Action	Tokon #17	Atamanimat	J. 7.46 a.m.	MST on 12/10/04	DEEC			- E
							mpact was 2 feet				
							into the surface s				
3 inch steel lir	ne with a no	ormal volume	of 25 Mm	sefd. The	volume of liqui	ds lost is unl	mown but estima	ted at 11 bl	ols. The	line was bl	locked in and
							S intends to pick-				
in the vicinity	as reported	the New I	Mexico Of	tice of the S	State Engineer's	s database 19	greater than 100	teet below	ground	surface (W	ell 04363 @
							ill be collected fo CRI (Control Re-				
permitted land		o or cicamp (	rougui cą.	Cotratichter	icu eo a wiji ve	disposed at	CXC (Connect Acc	covery mic.	) as exe	Tipt waste	or to a property
Describe Area	Affected a	and Cleanup A	ction Tak	en."							· ·
I hereby certif	o that the i	oformation of	wan ahawa	ic Prop and	complete to the	heat of my	knowledge and u	nderstand t	hat muse	unnt to NA	1000 males
							is and perform co				
endanger publ	ic health or	the environm	ent. The	acceptance	of a C-14) rep	ort by the NA	MOCD marked as	"Final Re	oon" do	es not rehe	ve the operator
of liability sho	ould their of	perations have	failed to	adequately	investigate and	remediate c	ontamination that	pose a thre	eat to gr	ound water	, surface
water, human	health or th	e environmen	nt. In addi	tion, NMO	CD acceptance	of a C-141 r	eport does not rel	ieve the op	erator o	responsib	ility for
compliance wi	no sory opne	er lederal, stat	e, or local	IBWS BROVO	r regulations.		OTL CONTE	- TO 3 Z A 70°		77.77070	
Signature: /	tim	Was at	•				OIL CONS	CKVAI	<u>ion L</u>	<u> 1                                   </u>	<u>N</u>
/	7	~ · · · · · ·	·	<del> </del>		A marana de	***				
Printed Name;	/ Lynn W	ard				Approved to District Sup	-				
Title: Sr. Env	/ironmental	Specialist				Approval D		E	xpiratio	n Date:	
Date: 12/16/6	04		Phone	432/620-	4207		of Approval			Attact	ned

CC: R. Gilchriot Guthingtine file 2.1.1.1 917108 2133 3930 9403 3737

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 June 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 Contact Lynn Ward Name of Company Duke Energy Field Services, LP Telephone No. (432) 620-4207 Facility Type Pipeline Lease No. Mineral Owner State of New Mexico

Address 10 Desta Dr., Suite 400-W, Midland, TX. 79705 Facility Name Unname Lateral of the C Line (active) Surface Owner State of New Mexico LOCATION OF RELEASE East/West Line Unit Letter Feet from the North/South Line Feet from the County Section Township Range 33 17S 33E Lea NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Condensate 11bbls 0 bbls Date and Hour of Discovery Source of Release pipeline failure Date and Hour of Occurrence 12/10/04, 3:45 pm MST 12/10/04 3:45 pm MST Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required Johnny Robinson, NMOCD Hobbs District Office Date and Hour 12/10/04 5:30 PM MST By Whom? Lynn Ward Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.\* N/A Describe Cause of Problem and Remedial Action Taken.\* Leak on a lateral line off C line. Line is a low pressure (15-20 psi). Volume released was estimated at 11 barrels of condensate and water. The area of impact was 2 feet by 1,000 feet and had impacted 1 inch into the surface soils. Describe Area Affected and Cleanup Action Taken.\* The impacted area, which flowed on the lease road, measured 1,000 feet with a width of approximately 2.0 feet. An assessment was performed on the impacted soil and results showed a shallow impact to the subsurface soils. The impacted soils were worked in place to reduce the hydrocarbon concentrations below the RRAL. The final confirmation samples for TPH and BTEX were all below the RRAL. The chloride concentrations detected do not appear to be an environmental concern. 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. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Ike Tavarez (Agent for Duke Energy Field Services, LP)

Approval Date: **Expiration Date:** Title: Senior Geologist Conditions of Approval: E-mail Address: itavarez@hec-enviro.com Attached 05 Phone: (432) 682-4559

Attach Additional Sheets If Necessary

## APPENDIX B

New Mexico Office of the State Engineer Well Reports and Downloads

#### Water Well - Average Depth to Groundwater

	Sou	th	E	ast				So	uth	E	ast				So	uth	Ea	ast	
6	5	4	3	2	1		6	5	4	3	2	1		6	5	4	3	2	1
7	8	9	10	11	12		7	8	9	10	11	12		7	8	9	10	11	12
18	17	16	15	14	13		18	17	16	15	14	13		18	17	16	15	14	13
19	20	21	22	23	24		19	20	21	22	23	24		19	20	21	22	23	24
30	29	28	27	26	25		30	29	28	27	26	25		30	29	28	27	26	25
31	32	33	34	35	36		31	32	33	34	35	36		31	32	33	34	35	36
	Sou	ıth	E	ast				17 S	outh	33	3 East	:			Soi	uth	E	ast	
6	5	4	3	2	1	9	90	5	4	3 155	<b>2</b> 158	1 150		6	5	4	3	2	1
7	8	9	10	11	12	ľ	7 167	<b>8</b> 173	<b>9</b> 161	10	11	12		7	8	9	10	11	12
18	17	16	15	14	13	1 1	1 <b>8</b> 188	<b>17</b> 180	16	15	14	<b>13</b> 165		18	17	16	15	14	13
19	20	21	22	23	24		19	<b>20</b> 190	21	22	<b>23</b> 115	24		19	20	21	22	23	24
30	29	28	27	26	25		30	29	28	27	26	25		30	29	28	27	26	25
31	32	33	34	35	36		31	32	33 SITE	34	<b>35</b> 155	36		31	32	33	34	35	36
	Sou	ıth	E	ast			1	l8 Soi	uth	3	3 Eas	t	•		So	uth	E	ast	
6	5	4	3	2	1		6	5	4	3	2	1		6	5	4	3	2	1
7	8	9	10	11	12		7	<b>8</b> 100	9	10	11	12 140		7	8	9	10	11	12
18	17	16	15	14	13	ľ	18	17	16	15	14	<b>13</b> 60		18	17	16	15	14	13
19	20	21	22	23	24	ľ	19	20	21	22	23	<b>24</b> 195		19	20	21	22	23	24
30	29	28	27	26	25		<b>30</b> 35	29	28	27	26	25		30	29	28	27	26	25
31	32	33	34	35	36		31	32	33	34	35	36		31	32	33	34	35	36

<sup>150</sup> New Mexico Engineer average depth to groundwater (ft)

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

Towr	nship: 17S	Range: 33E	Sections:			
NAD27	X:	Y:	Zone:	Sea	rch Radius:	
County:	В	Sasin:		Number:	Suffi	x:
Owner Name: (l	First)	(L	ast) • All	ON	Ion-Domestic	ODomestic
	Well / Sur	face Data Report	ter Column R	Avg Depth to W	/ater Report	)
	(	Clear Form	( WATERS	S Menu Hel	р	

#### AVERAGE DEPTH OF WATER REPORT 01/10/2005

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	Х	Y	Wells	Min	Max	Avg
L	17S	33E 01				2	150	150	150
L	17S	33E 02				4	151	168	158
L	17S	33E 03				2	155	155	155
L	17S	33E 06				2	90	90	90
L	17S	33E 07				2	114	214	164
L	17S	33E 08				2	173	173	173
L	17S	33E 09				2	160	161	161
L	17S	33E 13				2	165	165	165
L	17S	33E 17				2	180	180	180
L	17S	33E 18				2	188	188	188
L	17S	33E 20				3	190	190	190
L	17S	33E 23				2	70	160	115
L	17S	33E 35				4	150	160	155

Record Count: 31

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

Range: 33E Township: 18S Sections: Y: Zone: Search Radius: NAD27 X: Number: Suffix: County: Basin: Owner Name: (First) (Last) Non-Domestic Domestic • All Well / Surface Data Report Avg Depth to Water Report Water Column Report

WATERS Menu

Help

#### AVERAGE DEPTH OF WATER REPORT 05/26/2005

Clear Form

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	Х	Y	Wells	Min	Max	Avg
CP	18S	33E 13				1	60	60	60
CP	18S	33E 24				1	195	195	195
L	18S	33E 08				1	100	100	100
L	18S	33E 12				2	130	150	140
L	18S	33E 30				2	35	35	35

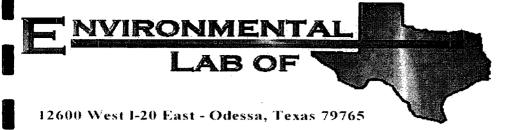
Record Count: 7

APPENDIX C

Lab Analysis

Lab Analysis

1/20/2005



# **Analytical Report**

## **Prepared for:**

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

Project: Duke/ Lateral of C Line Project Number: 2305 Location: Lea Co., NM

Lab Order Number: 5A17011

Report Date: 01/20/05

Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

Midland TX, 79705

Project Number: 2305
Project Manager: Ike Tavarez

Reported: 01/20/05 15:13

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 (0-0.5')	5A17011-01	Soil	01/12/05 00:00	01/14/05 17:30
#1 (1-1.5')	5A17011-02	Soil	01/12/05 00:00	01/14/05 17:30
#2 (0-0.5')	5A17011-03	Soil	01/12/05 00:00	01/14/05 17:30
#2 (1-1.5')	5A17011-04	Soil	01/12/05 00:00	01/14/05 17:30
#3 (0-0.5')	5A17011-05	Soil	01/12/05 00:00	01/14/05 17:30
#3 (1-1.5')	5A17011-06	Soil	01/12/05 00:00	01/14/05 17:30
#4 (0-0.5')	5A17011-07	Soil	01/12/05 00:00	01/14/05 17:30
#4 (1-1.5')	5A17011-08	Soil	01/12/05 00:00	01/14/05 17:30

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2305

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 01/20/05 15:13

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 (0-0.5') (5A17011-01) Soil									
Benzene	9.57	0.100	mg/kg dry	100	EA51806	01/18/05	01/18/05	EPA 8021B	
Toluene	105	0.100	11	11	n	•	"	н	
Ethylbenzene	74.1	0.100	**	n	н	n	*		
Xylene (p/m)	75.6	0.100	n	. #	11	n	•	,,	
Xylene (o)	29.0	0.100		11	11	"	"	ņ	
Surrogate: a,a,a-Trifluorotoluene		657 %	80-1	20	"	11	"	"	S-04
Surrogate: 4-Bromofluorobenzene		183 %	80-1	20	"	"	"	"	S-04
Gasoline Range Organics C6-C12	2190	10.0	mg/kg dry	1	EA51704	01/17/05	01/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	3020	10.0	11	11	n	H	"	"	
Total Hydrocarbon C6-C35	5210	10.0	*1	"	н			**	
Surrogate: 1-Chlorooctane		110 %	70-	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-	130	"	"	"	rr .	
#1 (1-1.5') (5A17011-02) Soil									
Gasoline Range Organics C6-C12	J [9.92]	10.0	mg/kg dry	1	EA51704	01/17/05	01/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	47.8	10.0	**	n	•	•	11	tt.	
Total Hydrocarbon C6-C35	47.8	10.0	**	"	11	н	11		
Surrogate: 1-Chlorooctane		91.8 %	70	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.2 %	70-	130	"	"	"	"	
#2 (0-0.5') (5A17011-03) Soil									
Benzene	0.0838	0.0250	mg/kg dry	25	EA51806	01/18/05	01/18/05	EPA 8021B	,
Toluene	11.1	0.0250	"	H	11		•	11	
Ethylbenzene	19.2	0.0250	**	11	**	11	H	**	
Xylene (p/m)	19.7	0.0250	11	"	n	"	Ħ	Ħ	
Xylene (0)	8.15	0.0250	"	Ħ	н		11	"	
Surrogate: a,a,a-Trifluorotoluene		250 %	80	120	"	"	"	"	S-0-
Surrogate: 4-Bromofluorobenzene		183 %	80-	120	"	"	"	**	S-0
Gasoline Range Organics C6-C12	1150	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	2130	10.0	"	н	н	11	н	n	
Total Hydrocarbon C6-C35	3280	10.0	"	n	11	11	н	"	
Surrogate: 1-Chlorooctane		109 %	70-	130	"	"	"	,,	
Surrogate: 1-Chlorooctadecane		104 %	70	130	"	"	,,	"	

Highlander Environmental Corp. 1910 N. Big Spring St.

Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2305 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported:
01/20/05 15:13

## Organics by GC Environmental Lab of Texas

		Environii	iiciitai L	740 VI I					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
#2 (1-1.5') (5A17011-04) Soil									
Gasoline Range Organics C6-C12	16.3	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	102	10.0	11	10	"	11	н	n	
Total Hydrocarbon C6-C35	118	10.0	ıı .	"		"		19	
Surrogate: 1-Chlorooctane		93.2 %	70-1	130	"	"	"	n	
Surrogate: 1-Chlorooctadecane		105 %	70-1	130	"	"	"	"	
#3 (0-0.5') (5A17011-05) Soil									
Gasoline Range Organics C6-C12	J [8.61]	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	28.7	10.0	"	n	*	н	н	11	
Total Hydrocarbon C6-C35	28.7	10.0	"	fr .	n n	#	11		
Surrogate: 1-Chlorooctane		99.2 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70	130	"	"	"	"	
#3 (1-1.5') (5A17011-06) Soil									-
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	41.4	10.0	11	n	**	Ħ	Ħ	n	
Total Hydrocarbon C6-C35	41.4	10.0		"	11	11	11	**	
Surrogate: 1-Chlorooctane		87.0 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-	130	"	"	"	"	
#4 (0-0.5') (5A17011-07) Soil									
Gasoline Range Organics C6-C12	337	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	973	10.0	11	"	•	11	Ħ	**	
Total Hydrocarbon C6-C35	1310	10.0	"	"	11	11	11	**	
Surrogate: 1-Chlorooctane		91.4 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-	130	"	,,	"	"	
#4 (1-1.5') (5A17011-08) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA51704	01/17/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	38.6	10.0	n	**	n	*	•	n	
Total Hydrocarbon C6-C35	38.6	10.0	"	11	**	"		#	
Surrogate: 1-Chlorooctane		91.0 %	7 <b>0</b> -	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.4 %	70-	130	"	"	"	"	

1910 N. Big Spring St. Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2305

Project Manager: Ike Tavarez

Fax: (432) 682-3946 Reported: 01/20/05 15:13

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
#1 (0-0.5') (5A17011-01) Soil									
Chloride	42.5	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	_
% Moisture	6.3		%	1	EA51802	01/17/05	01/18/05	% calculation	
#1 (1-1.5') (5A17011-02) Soil									
Chloride	149	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	9.2		%	1	EA51802	01/17/05	01/18/05	% calculation	
#2 (0-0.5') (5A17011-03) Soil									
Chloride	234	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	4.4		%	1	EA51802	01/17/05	01/18/05	% calculation	
#2 (1-1.5') (5A17011-04) Soil									
Chloride	255	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	9.1		%	1	EA51802	01/17/05	01/18/05	% calculation	
#3 (0-0.5') (5A17011-05) Soil									
Chloride	510	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	10.0		%	1	EA51802	01/17/05	01/18/05	% calculation	
#3 (1-1.5') (5A17011-06) Soil									_
Chloride	234	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	3.7		%	1	EA51802	01/17/05	01/18/05	% calculation	
#4 (0-0.5') (5A17011-07) Soil									
Chloride	596	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	5.3		%	1	EA51802	01/17/05	01/18/05	% calculation	
#4 (1-1.5') (5A17011-08) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EA52005	01/18/05	01/19/05	SW 846 9253	
% Moisture	5.3		%	1	EA51802	01/17/05	01/18/05	% calculation	

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2305 Project Manager: Ike Tavarez Fax: (432) 682-3946

**Reported:** 01/20/05 15:13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51704 - Solvent Extraction (	GC)									
Blank (EA51704-BLK1)				Prepared	& Analyze	ed: 01/17/0	05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	It							
Surrogate: 1-Chlorooctane	48.6	, <u> </u>	mg/kg	50.0		97.2	70-130			
Surrogate: 1-Chlorooctadecane	49.7		"	50.0		99.4	70-130			
LCS (EA51704-BS1)				Prepared	& Analyze	ed: 01/17/0	05			
Gasoline Range Organics C6-C12	457		mg/kg	500		91.4	75-125			
Diesel Range Organics >C12-C35	528		"	500		106	75-125			
Total Hydrocarbon C6-C35	985		11	1000		98.5	75-125			
Surrogate: 1-Chlorooctane	50.9			50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	50.2		"	50.0		100	70-130			
Calibration Check (EA51704-CCV1)				Prepared	& Analyzo	ed: 01/17/	05			
Gasoline Range Organics C6-C12	447		mg/kg	500		89.4	80-120			
Diesel Range Organics >C12-C35	512		u	500		102	80-120			
Total Hydrocarbon C6-C35	959		n	1000		95.9	80-120			
Surrogate: 1-Chlorooctane	51.7		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	55.7		"	50.0		111	70-130			
Matrix Spike (EA51704-MS1)	So	urce: 5A17(	)10-01	Prepared	& Analyzo	ed: 01/17/	05			
Gasoline Range Organics C6-C12	485		mg/kg	500	ND	97.0	75-125			
Diesel Range Organics >C12-C35	485		n	500	ND	97.0	75-125			
Total Hydrocarbon C6-C35	970		11	1000	ND	97.0	75-125			
Surrogate: 1-Chlorooctane	57.7		"	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	60.1		n	50.0		120	70-130			
Matrix Spike Dup (EA51704-MSD1)	So	urce: 5A170	010-01	Prepared	& Analyz	ed: 01/17/	05			
Gasoline Range Organics C6-C12	484		mg/kg	500	ND	96.8	75-125	0.206	20	
Diesel Range Organics >C12-C35	507		**	500	ND	101	75-125	4.44	20	
Total Hydrocarbon C6-C35	991		11	1000	ND	99.1	75-125	2.14	20	
Surrogate: 1-Chlorooctane	59.7		"	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	57.9		"	50.0		116	70-130			

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2305

Project Number: 2303

Project Manager: Ike Tavarez

Fax: (432) 682-3946

**Reported:** 01/20/05 15:13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51806 - EPA 5030C (GC)										
Blank (EA51806-BLK1)				Prepared .	& Analyze	ed: 01/17/0	05			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	n							
Ethylbenzene	ND	0.0250	**							
Xylene (p/m)	ND	0.0250	n							
Xylene (o)	ND	0.0250	11							
Surrogate: a,a,a-Trifluorotoluene	112		ug/kg	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	113		"	100		113	80-120			
LCS (EA51806-BS1)				Prepared	& Analyze	ed: 01/17/0	05			
Benzene	108		ug/kg	100	· · · · · · · · · · · · · · · ·	108	80-120			
Toluene	106		11	100		106	80-120			
Ethylbenzene	101		H	100		101	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	103		"	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			
Calibration Check (EA51806-CCV1)				Prepared	& Analyz	ed: 01/17/	05			
Benzene	106		ug/kg	100	· · · · · ·	106	80-120			
Toluene	105		11	100		105	80-120			
Ethylbenzene	102		III	100		102	80-120			
Xylene (p/m)	217		**	200		108	80-120			
Xylene (o)	103		n	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			
Matrix Spike (EA51806-MS1)	So	urce: 5A14(	)15-06	Prepared	& Analyz	ed: 01/17/	05			
Benzene	111		ug/kg	100	ND	111	80-120			
Toluene	112		"	100	ND	112	80-120			
Ethylbenzene	108		•	100	ND	108	80-120			
Xylene (p/m)	233		n	200	ND	116	80-120			
Xylene (o)	106		11	100	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

1910 N. Big Spring St. Midland TX, 79705

Surrogate: a,a,a-Trifluorotoluene

Surrogate: 4-Bromofluorobenzene

Project: Duke/ Lateral of C Line

Spike

100

100

Source

Project Number: 2305

Reporting

116

114

Project Manager: Ike Tavarez

Fax: (432) 682-3946

RPD

%REC

80-120

80-120

116

114

Reported: 01/20/05 15:13

Analyte	Result	Limit U	nits	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA51806 - EPA 5030C (GC)										
Matrix Spike Dup (EA51806-MSD1)	Sour	ce: 5A14015-0	6	Prepared	& Analyze	ed: 01/17/0	05			
Benzene	109	ug	/kg	100	ND	109	80-120	1.82	20	
Toluene	110		**	100	ND	110	80-120	1.80	20	
Ethylbenzene	112		R	100	ND	112	80-120	3.64	20	
Xylene (p/m)	233		#	200	ND	116	80-120	0.00	20	
Xylene (o)	112		19	100	ND	112	80-120	5.50	20	

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2305

Project Manager: Ike Tavarez

Reported: 01/20/05 15:13

#### 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 EA51802 - % Solids		-							
Blank (EA51802-BLK1)			Prepared	: 01/17/05	Analyzed	d: 01/18/05			
% Moisture	0.004	%							
Duplicate (EA51802-DUP1)	Sou	rce: 5A17002-01	Prepared	: 01/17/05	Analyzed	<u>d: 01/18/05</u>			
% Moisture	2.4	%		2.2			8.70	20	
Batch EA52005 - Water Extraction									
Blank (EA52005-BLK1)			Prepared	& Analyz	ed: 01/19/	05			
Chloride	ND	20.0 mg/kg W	et						
Matrix Spike (EA52005-MS1)	Sou	rce: 5A17011-01	Prepared	& Analyz	ed: 01/19/	05			
Chloride	510	20.0 mg/kg W	et 500	42.5	93.5	80-120			
Matrix Spike Dup (EA52005-MSD1)	Sou	rce: 5A17011-01	Prepared	& Analyz	ed: 01/19/	05			
Chloride	521	20.0 mg/kg W	et 500	42.5	95.7	80-120	2.13	20	
Reference (EA52005-SRM1)			Prepared	& Analyz	ed: 01/19/	05			
Chloride	5000	mg/kg	5000		100	80-120			

1910 N. Big Spring St.

Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2305

Project Manager: Ike Tavarez

Fax: (432) 682-3946

**Reported:** 01/20/05 15:13

#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Kalandtstul

Date: \-23-05

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist 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 Variance / Corrective Action Report – Sample Log-In

Client: Highlander Env.				
Date/Time: 01-14-05@1730				
Order #: _5/4/7011				
Initials: JMM			#. ·	
Sample Receipt	Checkli	ict		
Temperature of container/cooler?	(Yes)	No	4.0 C	
Shipping container/cooler in good condition?	Ves			
Custody Seals intact on shipping container/cooler?	Yes	No	Mot present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	(Yes)	No		
Sample Instructions complete on Chain of Custody?	Yes	No	<del></del>	
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	(Yes)	No		
Container labels legible and intact?	(es)	No		
Sample Matrix and properties same as on chain of custody?	(es)	No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	(Pe)	No		
Sufficient sample amount for indicated test?	Ves	No		
All samples received within sufficient hold time?	(es)	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	
Other observations:  Add Chloride per Ike. 1-18-05 13	\$ 15 A	7		
Variance Docum Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:				
	<del></del>			
			-,	<del></del>
				<del></del>

Midland, Texas

#### **FAX**

DATE:

1-25-05

TO:

Jeanne

WITH:

Environmental Lab of Texas

FAX:

1-(432) 563-1713

FROM:

lke Tavarez

WITH:

Highlander Environmental Corp.

Midland, Texas

PAGES:

(including Fax cover)

#### **Description:**

1. Duke Energy Field Service - Lateral of C Line, Lea County, New Mexico Order # 5A17011

#### Requesting additional analyses:

BTEX Analysis:

#1 (1-1.5)

#2 (1-1.5)

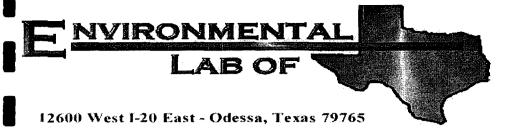
Please call me if you have any questions, Thanks

HIGHLANDER ENVIRONMENTAL CORP. 1910 N. BIG SPRING MIDLAND, TEXAS 79705 (432) 682-4559

e-mail: itavarez@hec-enviro.com

If fax is not legible please call Ike Tavarez at (432) 682-4559

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PROJECT	NO.:	2	301	P	RgS	Tr.	T NAME	20	kre	l or	10	1.	an	ie,			CONTAINERS	(N/N)						208		9	4	8 48	Volatiles		8240/8280/824		909/	8	H. 708,	( <u>A</u> fr.)	tou)	2		
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## Analytical Report

## **Prepared for:**

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

Project: Duke/ Lateral of C Line Project Number: 2305 Location: Lea Co., NM

Lab Order Number: 5A17011

Report Date: 01/28/05

1910 N. Big Spring St. Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2305

Project Manager: Ike Tavarez

Fax: (432) 682-3946

**Reported:** 01/28/05 13:50

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 (1-1.5')	5A17011-02	Soil	01/12/05 00:00	01/14/05 17:30
#2 (1-1.5')	5A17011-04	Soil	01/12/05 00:00	01/14/05 17:30

1910 N. Big Spring St. Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2305

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 01/28/05 13:50

## Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 (1-1.5') (5A17011-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA52719	01/26/05	01/26/05	EPA 8021B	<del>-</del>
Toluene	ND	0.0250	н	**	**	"	**	n	
Ethylbenzene	ND	0.0250	Ħ	**	n	"	"	11	
Xylene (p/m)	ND	0.0250	n	"	"	н	"	n	
Xylene (o)	ND	0.0250	11	**	11	11	n	11	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1	20	"	"	"	"	
#2 (1-1.5') (5A17011-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA52719	01/26/05	01/26/05	EPA 8021B	
Toluene	ND	0.0250	H	**	•	et	11	н	
Ethylbenzene	ND	0.0250	**	n	**	"	11	11	
Xylene (p/m)	ND	0.0250	n	"	"	н	"	•	
Xylene (o)	ND	0.0250	"	n	"	"	"	n	
Surrogate: a,a,a-Trifluorotoluene		99.8 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-	120	"	"	"	"	

1910 N. Big Spring St.

Project: Duke/ Lateral of C Line

Project Number: 2305

Reported:

Midland TX, 79705

Project Manager: Ike Tavarez

01/28/05 13:50

Fax: (432) 682-3946

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA52719 - EPA 5030C (GC)								_		
Blank (EA52719-BLK1)				Prepared	& Analyze	ed: 01/26/0	05			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	•							
Xylene (p/m)	ND	0.0250	и							
Xylene (o)	ND	0.0250	11							
Surrogate: a,a,a-Trifluorotoluene	99.9		ug/kg	100		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	85.9		"	100		85.9	80-120			
LCS (EA52719-BS1)				Prepared:	01/26/05	Analyzed	: 01/28/05			
Benzene	93.7		ug/kg	100		93.7	80-120			
Toluene	89.3		11	100		89.3	80-120			
Ethylbenzene	95.9		11	100		. 95.9	80-120			
Xylene (p/m)	215		н	200		108	80-120			
Xylene (o)	107		II	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			
Calibration Check (EA52719-CCV1)				Prepared:	01/26/05	Analyzed	l: 01/28/05			
Benzene	96.2		ug/kg	100		96.2	80-120			
Toluene	86.9		"	100		86.9	80-120			
Ethylbenzene	90.1		**	100		90.1	80-120			
Xylene (p/m)	201		**	200		100	80-120			
Xylene (o)	101		**	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	120		"	100		120	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			
Matrix Spike (EA52719-MS1)	So	urce: 5A250	015-09	Prepared	: 01/26/05	Analyzed	i: 01/28/05	;		
Benzene	95.6		ug/kg	100	ND	95.6	80-120			
Toluene	89.4		n	100	ND	89.4	80-120			
Ethylbenzene	97.9		n	100	ND	97.9	80-120			
Xylene (p/m)	220		"	200	ND	110	80-120			
Xylene (o)	111		**	100	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	111		"	100		111	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

Project Number: 2305

Project Manager: Ike Tavarez

**Reported:** 01/28/05 13:50

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA52719 - EPA 5030C (GC)										
Matrix Chike Dun (FA52710 MCD1)	So	urce: 5 A 2501	5.00	Prepared:	01/26/05	Analyzed	l· 01/28/05			

Matrix Spike Dup (EA52719-MSD1)	Source:	5A25015-09	Prepared:	01/26/05	Analyzed	1: 01/28/05		
Benzene	97.2	ug/kg	100	ND	97.2	80-120	1.66	20
Toluene	90.6	*	100	ND	90.6	80-120	1.33	20
Ethylbenzene	98.5	**	100	ND	98.5	80-120	0.611	20
Xylene (p/m)	221	"	200	ND	110	80-120	0.00	20
Xylene (o)	111	n	100	ND	111	80-120	0.00	20
Surrogate: a,a,a-Trifluorotoluene	118	"	100		118	80-120		
Surrogate: 4-Bromofluorobenzene	114	"	100		114	80-120		

1910 N. Big Spring St. Midland TX, 79705

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

Project Number: 2305 Project Manager: Ike Tavarez

Reported: 01/28/05 13:50

#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

Matrix Spike MS

Dup Duplicate

Date: 1-28-05 Report Approved By:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

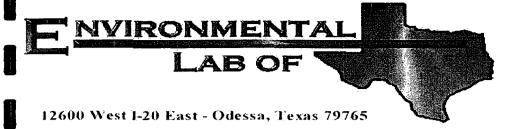
Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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

Lab Analysis

3/07/2005



## **Analytical Report**

#### **Prepared for:**

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

Project: Duke/ Lateral of C Line Project Number: 2301 Location: Lea County, NM

Lab Order Number: 5C04018

Report Date: 03/07/05

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2301

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/07/05 12:05

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Composite	5C04018-01	Soil	03/03/05 00:00	03/04/05 13:25
#2 Composite	5C04018-02	Soil	03/03/05 00:00	03/04/05 13:25
#3 Composite	5C04018-03	Soil	03/03/05 00:00	03/04/05 13:25

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2301

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/07/05 12:05

#### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
#1 Composite (5C04018-01) Soil									
Benzene	0.868	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	13.8	0.0250	H	"	H	,	"	11	
Ethylbenzene	11.6	0.0250	11	11	н	"	H	**	
Xylene (p/m)	13.8	0.0250	"	н	•	n	n	**	
Xylene (o)	4.86	0.0250	11		"		n	н	
Surrogate: a,a,a-Trifluorotoluene		266 %	80-1	20	"	<b>"</b>	"	n	S-04
Surrogate: 4-Bromofluorobenzene		102 %	80-1	20	n	"	"	"	
#2 Composite (5C04018-02) Soil									
Benzene	0.549	0.100	mg/kg dry	100	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	19.6	0.100	11	*	**	,,	n	10	
Ethylbenzene	23.1	0.100	11	"	,,	10	n	H	
Xylene (p/m)	34.3	0.100	"	*	11	"	n	n	
Xylene (o)	12.9	0.100	*	"	n	11	н	n	
Surrogate: a,a,a-Trifluorotoluene		188 %	80-1	20	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		116 %	80-1	20	"	"	"	"	
#3 Composite (5C04018-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	ND	0.0250	n	н	n	"	"	n	
Ethylbenzene	0.0338	0.0250	n	n	n	11	"	H	
Xylene (p/m)	0.0627	0.0250	17	"	н	и	n	"	
Xylene (o)	0.0783	0.0250	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	H	"				
Surrogate: a,a,a-Trifluorotoluene		90.4 %	80-1	20	"	n	"	,,	
Surrogate: 4-Bromofluorobenzene		92.9 %	80-1	20	"	"	"	"	

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2301 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 03/07/05 12:05

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5C04018-01) Soil									
% Moisture	9.7	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
#2 Composite (5C04018-02) Soil									
% Moisture	5.6	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
#3 Composite (5C04018-03) Soil									
% Moisture	5.6	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	

1910 N. Big Spring St. Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2301

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/07/05 12:05

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC50408 - EPA 5030C (GC)	· · · · · · · · · · · · · · · · · · ·	<del></del>								
Blank (EC50408-BLK1)				Prepared:	03/03/05	Analyzed	1: 03/04/05			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	n							
Ethylbenzene	ND	0.0250	H							
Xylene (p/m)	ND	0.0250	**							
Xylene (o)	ND	0.0250	n							
Surrogate: a,a,a-Trifluorotoluene	91.9		ug/kg	100		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	98.1		"	100		98.1	80-120			
LCS (EC50408-BS1)				Prepared	& Analyze	ed: 03/03/	05			
Benzene	111		ug/kg	100		111	80-120			
Toluene	115		n	100		115	80-120			
Ethylbenzene	113		*	100		113	80-120			
Xylene (p/m)	238		11	200		119	80-120			
Xylene (o)	118		**	100		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	111		"	100	······································	111	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			
Calibration Check (EC50408-CCV1)				Prepared:	03/03/05	Analyzed	1: 03/04/05			
Benzene	101		ug/kg	100		101	80-120			
Toluene	101		H	100		101	80-120			
Ethylbenzene	89.3		v	100		89.3	80-120			
Xylene (p/m)	199		11	200		99.5	80-120			
Xylene (0)	96.7		**	100		96.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	99.0		"	100		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	85.2		"	100		85.2	80-120			
Matrix Spike (EC50408-MS1)	So	urce: 5C030	004-02	Prepared	& Analyz	ed: 03/03/	05			
Benzene	114		ug/kg	100	ND	114	80-120			
Toluene	120		,	100	ND	120	80-120			
Ethylbenzene	110		11	100	ND	110	80-120			
Xylene (p/m)	237		н	200	ND	118	80-120			
Xylene (o)	117		•	100	ND	117	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Spike

Source

%REC

Project Number: 2301

Reporting

Project Manager: Ike Tavarez

Fax: (432) 682-3946

RPD

Reported: 03/07/05 12:05

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC50408 - EPA 5030C (GC)										
Matrix Spike Dup (EC50408-MSD1)	Sour	ce: 5C03004	-02	Prepared	& Analyz	ed: 03/03/0	05			
Benzene	99.8		ug/kg	100	ND	99.8	80-120	13.3	20	
Toluene	100		*	100	ND	100	80-120	18.2	20	
Ethylbenzene	92.6		"	100	ND	92.6	80-120	17.2	20	
Xylene (p/m)	208		"	200	ND	104	80-120	12.6	20	
Xylene (o)	101		17	100	ND	101	80-120	14.7	20	
Surrogate: a,a,a-Trifluorotoluene	94.2		"	100	···	94.2	80-120			
Surrogate: 4-Bromofluorobenzene	91.7		"	100		91.7	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Spike

Source

Project Number: 2301

Project Manager: Ike Tavarez

Reporting

Fax: (432) 682-3946

Reported:

03/07/05 12:05

RPD

%REC

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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC50704 - General Prepar	ation (Prep)		-4.0	- marketter						
Blank (EC50704-BLK1)				Prepared:	03/04/05	Analyzed	1: 03/07/05			
% Moisture	ND	0.1	%							
Duplicate (EC50704-DUP1)	Sour	rce: 5C0400	)1-01	Prepared:	03/04/05	Analyzed	1: 03/07/05			
9/ Moisture	0.9	0.1	%		1.3			36.4	20	

Project: Duke/ Lateral of C Line

Project Number: 2301 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 03/07/05 12:05

#### **Notes and Definitions**

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Raland K Just

Date: 3-07-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

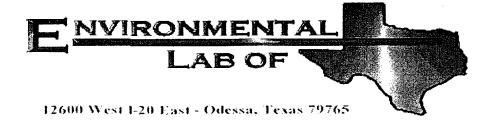
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If you have received this material in error, please notify us immediately at 432-563-1800.

## Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Highlander  Date/Time: 34(05 2'-00)	•			
Date/Time: 24(05 2'-00				
Order#:509018				
Initials:				
Sample Receipt (	Check	list		
Temperature of container/cooler?	Yes	No	3.0 · 0	:T
Shipping container/cooler in good condition?	(Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	-
Custody Seals intact on sample bottles?	Yes	No	Not present	┪
Chain of custody present?	) (CES	No	Crot prognit	-
Sample Instructions complete on Chain of Custody?	Xes	No		7
Chain of Custody signed when relinquished and received?	res	No	<del></del>	7
Chain of custody agrees with sample label(s)	Tes	No		7
Container labels legible and intact?	Ves	No		-
Sample Matrix and properties same as on chain of custody?	Tes	No		
Samples in proper container/bottle?	Yes	No		-
Samples properly preserved?	res	No		
Sample bottles intact?	(es	No		
Preservations documented on Chain of Custody?	(Yes	No		7
Containers documented on Chain of Custody?	Yes	(No.		7
Sufficient sample amount for indicated test?	(/es	No	·	-
All samples received within sufficient hold time?	(es	No		7
VOC samples have zero headspace?	res	No	Not Applicable	7
Other observations:				
Variance Docume	entatio	n:		
Contact Person: Date/Time:			Contacted by:	
Regarding:		•		
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Consolina Astion Talent				
Corrective Action Taken:				
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24	LAB I.D. NUMBER	DATE	TOME	MATRIX	COMP.	CKAB	,	(		(PLE				ATIO	, N				NUMBER OF CO.		בשנים	SOME	ICE	NONE		BTEX BOZO/602	MTBE 8020/602	18	RCRA Metals Ag	TCIP Metals	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8280/624	GC.MS Semi. Vol.	PCB's 8080/608	BOD. 758. p.H.	Gemma Spec.	Alpha Bota (Air)	PLM (Asbestos)			
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### Analytical Report

#### Prepared for:

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

Project: Duke/ Lateral of C Line
Project Number: 2301
Location: Lea County, NM

Lab Order Number: 5C04018

Report Date: 03/07/05

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2301 Project Manager: lke Tavarez

Reported: 03/07/05 17:25

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Composite	5C04018-01	Soil	03/03/05 00:00	03/04/05 13:25
#2 Composite	5C04018-02	Soil	03/03/05 00:00	03/04/05 13:25
#3 Composite	5C04018-03	Soil	03/03/05 00:00	03/04/05 13:25

Midland TX, 79705

Project: Duke/ Lateral of C Line

Project Number: 2301

Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/07/05 17:25

#### Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5C04018-01) Soil			- <u>- ,,, ,,,</u>						
Benzene	0.868	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	13.8	0.0250			**	•			
Ethylbenzene	11.6	0.0250	**					•	
Xylene (p/m)	13.8	0.0250	•	•	•	-			
Xylene (o)	4.86	0.0250		*	*		*	*	
Surrogate: a,a,a-Trifluorotoluene		266 %	80-1	120	,,	,,	,,	"	S-04
Surrogate: 4-Bromofluorobenzene		102 %	80-1	120	"	••	,,	'n	
#2 Composite (5C04018-02) Soil									
Benzene	0.549	0.100	mg/kg dry	100	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	19.6	0.100	**	n	m		n	n	
Ethylbenzene	23.1	0.100				•	•	"	
Xylene (p/m)	34.3	0.100	*		•	•	•	,	
Xylene (o)	12.9	0.100	•				-	•	
Surrogate: a,a,a-Trifluorotoluene		188 %	80-1	120	,	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		116 %	80-1	120	"	п	*	"	
#3 Composite (5C04018-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	ND	0.0250	**		*	•		*	
Ethylbenzene	0.0338	0.0250				,,		•	
Xylene (p/m)	0.0627	0.0250	"		-	•	n	u	
Xylene (o)	0.0783	0.0250	"	•	•	*	**	•	
Surrogate: a,a,a-Trifluorotoluene		90.4 %	80-1	20	"		,	0	
Surrogate: 4-Bromofluorobenzene		92.9 %	80-1	20	,,	"	,,	n	

Project: Duke/ Lateral of C Line

Project Number: 2301 Project Manager: 1ke Tavarez Fax: (432) 682-3946

Reported: 03/07/05 17:25

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

Analyte .	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5C04018-01) Soil									
% Moisture	9.7	0.1	%	l	EC50704	03/04/05	03/07/05	% calculation	
#2 Composite (5C04018-02) Soil									
% Moisture	5.6	0.1	%	]	EC50704	03/04/05	03/07/05	% calculation	
#3 Composite (5C04018-03) Soil									
% Moisture	5.6	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	

Project. Duke/ Lateral of C Line

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2301
Project Manager: Ike Tavarez

Reported: 03/07/05 17:25

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC50408 - EPA 5030C (GC)										
Blank (EC50408-BLK1)				Prepared: (	)3/03/05 A	nalyzed: 03	3/04/05			
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	91.9		ng kg	100		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	98.1		,	100		98.1	80-120			
LCS (EC50408-BS1)				Prepared &	Analyzed:	03/03/05				
Benzene	111		ug/kg	100		111	80-120			
Foluene	115		**	100		115	80-120			
Ethylbenzene	113			100		113	80-120			
Xylene (p/m)	238			200		119	80-120			
Kylene (o)	118		*	100		118	80-120			
Surrogate: a.a,a-Trifluorotoluene	777			100	** **	111	×0-120			
Surrogate: 4-Bromofluorohenzene	112		,,	100		112	X0-120			
Calibration Check (EC50408-CCV1)				Prepared: (	03/03/05 A	nalyzed: 03	3/04/05			
Benzene	101		υg/kg	100		101	80-120			
Toluene	101		•	100		103	80-120			
Ethylbenzene	89.3		**	100		89.3	80-120			
Xylene (p/m)	199			200		99.5	80-120			
Xylene (o)	96 7		**	100		96.7	80-120			
Surrogate: a.a.a-Trifluorotoluene	99 0		. ,,	100		99 Ô	80-120			
Surrogote: 4-Bromofluorobenzene	85.2		"	100		85.2	80-120			
Matrix Spike (EC50408-MS1)	Sou	rce: 5C03004	I-02	Prepared &	: Analyzed:	03/03/05				
Benzene	114		ug/kg	100	ND	114	80-120	** **********		
foluene	120		-	100	ND	120	80-120			
Ethylbenzene	110		•	100	ND	110	80-120			
Xylene (p/m)	237			200	ND	118	80-120			
Kylene (0)	117		•	100	ND	117	80-120			
Surrogate: a.a.a-Trifluorotoluene	11-			100		11-	×0-120		-	
Surrogate: 4-Bromofluorobenzene	112		"	100		112	×0-120			

Midland TX, 79705

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

Project Number: 2301 Project Manager: lke Tavarez

Reported: 03/07/05 17:25

	D I.	Reporting	11.00	Spike Level	Source	NDC	%REC	n.n.n.	RPD	N -
Analyte	Result	Limit	Limit Units		Result	%REC	Limits	RPD	Limit	Notes
Batch EC50408 - EPA 5030C (GC)										
Matrix Spike Dup (EC50408-MSD1)		rce: 5C03004-02	2	Prepared &	Analyzed	03/03/05				
Benzene	99.8		ug/kg	100	ND	99.8	80-120	13.3	20	
Toluen <b>e</b>	100		•	100	ND	100	80-120	18.2	20	
Ethylbenzene	92.6		•	100	ND	92.6	80-120	17.2	20	
Xylene (p/m)	208		•	200	ND	104	80-120	12.6	20	
Xylene (0)	101		•	100	ND	101	80-120	14.7	20	
Surrogate: a,a,a-Trifluorotoluene	94.2		"	100		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	91		•	100		91.7	80-120			

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2301

Project Manager: Ike Tavarez

Reported: 03/07/05 17:25

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

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC50704 - General Preparation (Prep)										
Blank (EC50704-BLK1)				Prepared: (		nalyzeď: 03	/07/05			
% Moisture	ND	0.1	%							
Duplicate (EC50704-DUP1)	Sou	rce: 5C04001-	01	Prepared: (	03/04/05 A	nalyzed: 03	/07/05			
% Moisture	0.9	0.3	%		1.3			36.4	20	

Highlander Environmental Corp.

Project: Duke/ Lateral of C Line

Project Number: 2301

Midland TX, 79705

Project Manager: Ike Tavarez

Duke/ Lateral of C Line

Fax: (432) 682-3946

Reported:

03/07/05 17:25

#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. Analyte DETECTED DET ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported Sample results reported on a dry weight basis dry. RPD Relative Percent Difference Laboratory Control Spike LCS Matrix Spike MS Duplicate Dup

	Kaland K Julis		
Report Approved By:	Riscario 180	Date:	3/7/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist 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.

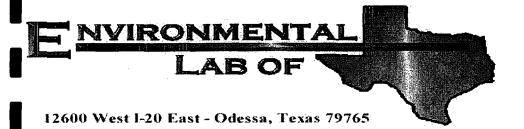
If you have received this material in error, please notify us immediately at 432-563-1800.

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SAMPLE CONDITION WHEN RECEIVED:	BATRIX:	or A-Atr	SD-Solid			EWR													1,		

## Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Hiddlander				
Date/Time: <u>2405 200</u>				
Order #: 509018				
order				
Initials:				
Sample Receipt	t Checkl	list		
Temperature of container/cooler?	Yes	No	3,0° C	
Shipping container/cooler in good condition?	(Yeş	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	(Not present	
Chain of custody present?	₹ē\$	No	2000	
Sample Instructions complete on Chain of Custody?	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	No		
Chain of Custody signed when relinquished and received?	des	No		
Chain of custody agrees with sample label(s)	Tes	No		
Container labels legible and intact?	₹es	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	Wes	No		
Sample bottles intact?	(Pes	No		
Preservations documented on Chain of Custody?	(Yes	No		
Containers documented on Chain of Custody?	Yes	(190)		
Sufficient sample amount for indicated test?	//es	No		
All samples received within sufficient hold time?	Res	No		
VOC samples have zero headspace?	(Feb	No	Not Applicable	
Other observations:				
Variance Docur Contact Person: Date/Time: Regarding:	mentatic		Contacted by:	
Corrective Action Taken:				
				,
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			a annual	

**Lab Analysis** 5/12/2005



## Analytical Report

#### **Prepared for:**

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

Project: Duke/ Lateral of C Line Project Number: 2301 Location: Lea County, NM

Lab Order Number: 5E10005

Report Date: 05/12/05

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

Project Number: 2301 Project Manager: Ike Tavarez Fax: (432) 682-3946

**Reported:** 05/12/05 13:49

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area #1	5E10005-01	Soil	05/06/05 00:00	05/09/05 17:25
Area #2	5E10005-02	Soil	05/06/05 00:00	05/09/05 17:25

Project: Duke/ Lateral of C Line

Project Number: 2301
Project Manager: Ike Tavarez

Fax: (432) 682-3946

**Reported:** 05/12/05 13:49

#### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Area #1 (5E10005-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51116	05/11/05	05/11/05	EPA 8021B	•
Toluene	ND	0.0250	**	и	9	n	W	**	
Ethylbenzene	J [0.0149]	0.0250	n	н	**	**	11	n	J
Xylene (p/m)	0.0553	0.0250	**	**	II.	n	н	"	
Xylene (o)	0.0754	0.0250	н .	11	#	n	11	п	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	160	10.0	mg/kg dry	1	EE51003	05/10/05	05/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	1340	10.0	*	n	11	*	11	u	
Total Hydrocarbon C6-C35	1500	10.0		н	11	н	11	11	
Surrogate: 1-Chlorooctane		81.0 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.2 %	70-1	30	"	"	"	"	
Area #2 (5E10005-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51116	05/11/05	05/11/05	EPA 8021B	
Toluene	0.139	0.0250	"	"	"	n	н	**	
Ethylbenzene	0.576	0.0250	H	11	"	"	17	n	
Xylene (p/m)	1.34	0.0250	*	н	11	11	n	•	
Xylene (o)	0.675	0.0250		,,	"	11	"	n	
Surrogate: a,a,a-Trifluorotoluene	_	83.3 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.3 %	80-1	120	"	"	n	"	

Project: Duke/Lateral of C Line

Project Number: 2301
Project Manager: Ike Tavarez

Fax: (432) 682-3946

**Reported:** 05/12/05 13:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Area #1 (5E10005-01) Soil									
% Moisture	5.6	0.1	%	1	EE51102	05/10/05	05/11/05	% calculation	
Area #2 (5E10005-02) Soil									
% Moisture	6.0	0.1	%	1	EE51102	05/10/05	05/11/05	% calculation	

Project: Duke/ Lateral of C Line

Project Number: 2301 Project Manager: Ike Tavarez Fax: (432) 682-3946

**Reported:** 05/12/05 13:49

ł		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE51003 - Solvent Extraction	(GC)									
Blank (EE51003-BLK1)				Prepared	& Analyze	ed: 05/10/0	05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.I		mg/kg	50.0		74.2	70-130			
Surrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
LCS (EE51003-BS1)				Prepared	& Analyze	ed: 05/10/0	05			
Gasoline Range Organics C6-C12	442	10.0	mg/kg wet	500		88.4	75-125			
Diesel Range Organics >C12-C35	448	10.0	"	500		89.6	75-125			
Total Hydrocarbon C6-C35	890	10.0	11	1000		89.0	75-125			
Surrogate: 1-Chlorooctane	37.9		mg/kg	50.0		75.8	70-130			
Surrogate: 1-Chlorooctadecane	35.8		"	50.0		71.6	70-130			
LCS Dup (EE51003-BSD1)				Prepared	& Analyze	ed: 05/10/	05			
Gasoline Range Organics C6-C12	424	10.0	mg/kg wet	500		84.8	75-125	4.16	20	
Diesel Range Organics >C12-C35	480	10.0	11	500		96.0	75-125	6.90	20	
Total Hydrocarbon C6-C35	904	10.0	n	1000		90.4	75-125	1.56	20	
Surrogate: 1-Chlorooctane	38.5		mg/kg	50.0		77.0	70-130			
Surrogate: 1-Chlorooctadecane	<i>37</i> .7		"	50.0		75.4	70-130			
Calibration Check (EE51003-CCV1)				Prepared	& Analyze	ed: 05/10/	05			
Gasoline Range Organics C6-C12	498		mg/kg	500		99.6	80-120			
Diesel Range Organics >C12-C35	514		H	500		103	80-120			
Total Hydrocarbon C6-C35	1010		н	1000		101	80-120			
Surrogate: 1-Chlorooctane	42.4		"	50.0		84.8	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		<i>73.0</i>	70-130			

Project: Duke/ Lateral of C Line

Project Number: 2301 Project Manager: Ike Tavarez Fax: (432) 682-3946

**Reported:** 05/12/05 13:49

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	1103UII	- Limit			1103411	, vi (L) C	Diffits	10.0	Dillik	140163
Batch EE51116 - EPA 5030C (GC)					· <u>-</u>					
Blank (EE51116-BLK1)				Prepared	& Analyze	ed: 05/11/0	05			
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	**							4
Surrogate: a,a,a-Trifluorotoluene	82.5		ug/kg	100		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	82.7		"	100		82.7	80-120			
LCS (EE51116-BS1)				Prepared	& Analyz	ed: 05/11/	05			
Benzene	84.3		ug/kg	100	<del>-</del>	84.3	80-120			
Toluene	82.7		n	100		82.7	80-120			
Ethylbenzene	82.2		n	100		82.2	80-120			
Xylene (p/m)	186		"	200		93.0	80-120			
Xylene (o)	91.6		"	100		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	100		"	100		100	80-120			
Surrogate: 4-Bromofluorobenzene	91.4		"	100		91.4	80-120			
Calibration Check (EE51116-CCV1)				Prepared	& Analyz	ed: 05/11/	05			
Benzene	98.7		ug/kg	100		98.7	80-120	<del></del>		
Toluene	91.2		11	100		91.2	80-120			
Ethylbenzene	85.7		n	100		85.7	80-120			
Xylene (p/m)	191		н	200		95.5	80-120			
Xylene (o)	, 90.0		n	100		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	95.5		"	100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	<b>87</b> .7		"	100		87.7	80-120			
Matrix Spike (EE51116-MS1)	So	urce: 5E110	01-06	Prepared	& Analyz	ed: 05/11/	05			
Benzene	98.7		ug/kg	100	ND	98.7	80-120			
Toluene	94.6		11	100	ND	94.6	80-120			
Ethylbenzene	94.6		n	100	ND	94.6	80-120			
Xylene (p/m)	222			200	44.1	89.0	80-120			
Xylene (o)	98.7		n	100	ND	98.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	91.2		"	100		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Duke/ Lateral of C Line

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Fax: (432) 682-3946

**Reported:** 05/12/05 13:49

Project Number: 2301 Project Manager: Ike Tavarez

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

Batch	EE511	116 -	<b>EPA</b>	5030C	(GC)

Matrix Spike Dup (EE51116-MSD1)	Source:	5E11001-06	Prepared	& Analyze				
Benzene	100	ug/kg	100	ND	100	80-120	1.31	20
Toluene	96.3	"	100	ND	96.3	80-120	1.78	20
Ethylbenzene	96.3	**	100	ND	96.3	80-120	1.78	20
Xylene (p/m)	221	"	200	44.1	88.4	80-120	0.676	20
Xylene (o)	102	"	100	ND	102	80-120	3.29	20
Surrogate: a,a,a-Trifluorotoluene	101	"	100		101	80-120		
Surrogate: 4-Bromofluorobenzene	106	"	100		106	80-120		

Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 2301 Project Manager: Ike Tavarez **Reported:** 05/12/05 13:49

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

Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
ation (Prep)									
			Prepared:	05/10/05	Analyzed	: 05/11/05			
ND	0.1	%							
So	urce: 5E1000	1-01	Prepared:	05/10/05	Analyzed	: 05/11/05			
11.1	0.1	%		10.5			5.56	20	
	ation (Prep) ND So	Result Limit  ation (Prep)  ND 0.1  Source: 5E1000	Result Limit Units  ation (Prep)  ND 0.1 %  Source: 5E10001-01	Result         Limit         Units         Level           ation (Prep)         Prepared:           ND         0.1         %           Source: 5E10001-01         Prepared:	Result         Limit         Units         Level         Result           ation (Prep)           Prepared: 05/10/05           ND         0.1         %           Source: 5E10001-01         Prepared: 05/10/05	Ation (Prep)  Prepared: 05/10/05 Analyzed  ND 0.1 %  Source: 5E10001-01 Prepared: 05/10/05 Analyzed	Result         Limit         Units         Level         Result         %REC         Limits           ation (Prep)           Prepared: 05/10/05         Analyzed: 05/11/05           ND         0.1         %           Source: 5E10001-01         Prepared: 05/10/05         Analyzed: 05/11/05	Result         Limit         Units         Level         Result         %REC         Limits         RPD           ation (Prep)           Prepared: 05/10/05 Analyzed: 05/11/05           ND         0.1         %           Source: 5E10001-01         Prepared: 05/10/05 Analyzed: 05/11/05	Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           ation (Prep)           Prepared: 05/10/05         Analyzed: 05/11/05           ND         0.1         %           Source: 5E10001-01         Prepared: 05/10/05         Analyzed: 05/11/05

Project: Duke/ Lateral of C Line

Fax: (432) 682-3946 Reported: 05/12/05 13:49

Midland TX, 79705

Project Number: 2301 Project Manager: Ike Tavarez

**Notes and Definitions** 

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Laboratory Control Spike LCS

MS Matrix Spike

Dup Duplicate

> Kalandkoul Report Approved By:

Date: 5-12-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist 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 Variance / Corrective Action Report – Sample Log-In

Client: Highlander				
Date/Time: 5/10/05/8:00				
Order #: 5	•			
Initials:	•			
Sample Receipt	Checkli	ist _		
Temperature of container/ccoler?	Yes	No	1 4.0 CI	
Shipping container/cooler in good condition?	(Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	•••
Chain of custody present?	des	No		
Sample Instructions complete on Chain of Custody?	X555	No		
Chain of Custody signed when relinquished and received?	(E3)	No		
Chain of custody agrees with sample label(s)	/es	No		
Container labels legible and intact?	739	No		
Sample Matrix and properties same as on chain of custody?	78	No		
Samples in proper container/bottle?	1795	Nic	i	
Samples properly preserved?	(Fes	Nc		
Sample bottles intact?	12051	Nic	1	
Preservations documented on Chain of Custody?	1 Xes	Nio		
Containers documented on Chain of Custody?	THE I	No		
Sufficient sample amount for indicated test?	Yas	No	<u> </u>	
All samples received within sufficient hold time?	1	No		•
VOC samples have zero headspace?	/YES	Nic	i Not Applicable	
Other observations:				
Variance Docur Contact Person: Date/Time: Regarding:			Contacted by: _	·
Corrective Action Taken:				-
		··		
<u> </u>				
			<del></del>	<del></del>

Analysis Request and Chain of Custody Record									PAGE:   OF:   ANALYSIS REQUEST																								
													+			1	Circ							l No	j.)								
HIGHLANDER ENVIRONMENTAL 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 Fax															3940	5			> 170005	10 de	Hg Se	т т											
CLIENT NAME: Dike SITE MANAGER.  IK lance											INERS	PRESERVATIVE METHOD							8015 MOD:	3				7007 000	8270/825			Chloride					
PROJECT NO.: 2301 PROJECT NAME:  Whe / WH Have Coted line of Chine.  Lea Co. N. m.									OF CONTAINERS						808/	l l		7 77	2	iles	Volatile	0/ 0/ 00	d. Vol. 6	909/	808	pH, 170S,	A (ALF.)	etos)					
LAB I.D. NUMBER 1000 S	TDÆ	MATRIX COMP.	GRAB	,	SAMPLE IDENTIFICATION									HNO3	ICE	NONE	BTEX 8020/602		<b>179H</b> ≥ 418.1	PAH 6270	TCIP Metals Ag	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Semi. Vol. 8270/629	PCB's 8080/808	Pest. 808/608	BOD, TSS, p.H.	Alpha Bet	PLM (Asbestos)			
		5 Y		ava		/					1						X		Y														
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