Administrative/Environmental Order



# **AE Order Number Banner**

**Report Description** 

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pGRL1116055984

1RP - 2648

### TARGA MIDSTREAM SERVICES LLC

2/10/2016

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

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 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: Ralph England		
Telephone No.: 575-396-3221		
Facility Type: Gas Processing		
	Contact: Ralph England Telephone No.: 575-396-3221	Contact: Ralph England Telephone No.: 575-396-3221

Surface Owner: Eidson Ranch

Mineral Owner

Lease No.:

				LUCA	ATION OF REL	LEASE		
Unit Letter P	Section 27	Township 16S	Range 35E	Feet from the 114'	North/South Line SOUTH	Feet from the 136'	East/West Line EAST	County LEA
			1					

NATURE OF RELEASE

Latitude: 32.886096

Longitude:-103.437356

#### Type of Release: Gas Release Volume of Release: Unknown Volume Recovered: 0 Source of Release: 8" steel pipeline Date and Hour of Occurrence: Date and Hour of Discovery: Was Immediate Notice Given? If YES, To Whom? Yes No X Not Required By Whom? Date and Hour: Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\*

Leaking 8"steel pipeline, external corrosion. Remedial action: pipeline was temporarily repaired, isolated and taken out of service. Work is currently in progress to permanently repair pipeline by inserting 6" poly line inside existing 8" steel pipeline. Permanent repair will be completed by 11-9-2010. Upon completion of pipeline repair, excavation will begin to clean leak site. Contaminated soil will be removed to an OCD approved landfarm, soil will be tested and new topsoil brought in to replace contaminated soil.

Describe Area Affected and Cleanup Action Taken.\*

CLEAN UP ACTION: site was excavated and sampled by Targa and Whole Earth Environmental Inc., samples sent to Cardinal Labs in Hobbs. Field & lab results confirmed no further contamination. NMOCD approved closure.

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

Signature: Jalph England	OIL CO	DNSERVATION	DIVISION	
Printed Name: Ralph England	Approved by District Supe	rvisor:		
Title: Field Supervisor	Approval Date:	Approval Date: Expiration D		
E-mail Address: REngland@targaresources.com Date: 6/13/30/1 Phone: (575) 396-3221 Attach Additional Sheets If Necessary	Conditions of Approval:	Attached		
Attach Additional Sheets If Necessary			- 749 - 2 Mar	

Attach Additional Sheets If Necessary

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

	<b>OPERA</b>	TOR	D	Initia	al Report		Final Rep
Name of Company: Targa Midstream Services, L.P.	Contact: R	alph England	-				
Address: P.O. Box 1689, Lovington, NM 88260		No.: (575) 396-					
Facility Name: Saunders Plant	Facility Typ	e: Gas Process	sing				
Surface Owner: Eidson Ranch Mineral Owne	T			Lease N			
LOCATI	ON OF PE	LEASE APL	of MAU	DSAUT	VOSRS +	+004	
	rth/South Line	Feet from the	East/We		County	00.(	20
I (157(27) 16S 35E	Tur South Entre	T COL HOIR LIC	Lasy we	St Line	County	а.	
NUNDERS BREAK Latitude 32.89278	Longitud	e_103.44018		-			
Type of Release: Gas release	the second se	Release: Unkno	wn N	Volume F	Recovered:	0	
Source of Release: 8" steel pipeline		lour of Occurrent	ce: I	Date and	Hour of Dis	covery:	
Westmending Disting Circum	Unknown If YES, To	W/ham?					
Was Immediate Notice Given?		y whom?					
By Whom?	Date and H	lour					
Was a Watercourse Reached?		olume Impacting	the Waterc	ourse.			
🗌 Yes 🖾 No							
Cause: Leaking 8" steel pipeline, external corrosion.							
Cause: Leaking 8" steel pipeline, external corrosion. Remedial Action: Pipeline was temporarily repaired, isolated and take				ess to pe	rmanently re	epair pij	peline by
Describe Cause of Problem and Remedial Action Taken.* Cause: Leaking 8" steel pipeline, external corrosion. Remedial Action: Pipeline was temporarily repaired, isolated and take inserting 6" polyethylene pipe inside existing 8" steel pipeline. Perman Describe Area Affected and Cleanup Action Taken.*				ess to pe	rmanently re	epair pij	peline by
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Cause: Leaking 8" steel pipeline, external corrosion. Remedial Action: Pipeline was temporarily repaired, isolated and take inserting 6" polyethylene pipe inside existing 8" steel pipeline. Perman Describe Area Affected and Cleanup Action Taken.* Upon completion of pipeline repair, excavation will begin to clean leak the tested and new topsoil brought in to replace contaminated soil. hereby certify that the information given above is true and complete to egulations all operators are required to report and/or file certain release ublic health or the environment. The acceptance of a C-141 report by hould their operations have failed to adequately investigate and remed in the environment. In addition, NMOCD acceptance of a C-141 report ederal, state, or local laws and/or regulations.	a site. Contamin o the best of my e notifications a the NMOCD m liate contaminati t does not reliev Approved by Approval Da Conditions of	tated soil will be a nated soil will be a knowledge and u nd perform correct narked as "Final R ion that pose a that we the operator of <u>OIL CON</u> ENV ENGINE	removed to inderstand ctive action deport" doe reat to grou responsibi SERVA ER: JE ER: JE ER: JE EX: JE	that purs an OCE that purs as for release not reliand water lity for control TION	approved I suant to NM eases which ieve the ope ompliance w DIVISIC	andfarm OCD n may en rator of ater, hu with any <u>N</u> <u>N</u> <u>C</u>	n, soil will tles and danger liability man health other



Whole Earth Environmental, Inc. 2103 Arbor Cove Katy, Tx. 77494 281.394.2050 mikeg@vadose.us

June 14, 2011

NMOCD 1625 No. French Dr. Hobbs, NM 88241

Attn: Geoffrey Leking

#### Reference: 1RP-2648 Targa Eidson Ranch LC-61 #1

Dear Mr. Leking:

Enclosed, please find a final copy of our remediation report for the Targa Midstream Services L.P. Eidson Ranch LC-61 #1 located in Lea County, New Mexico.

Thank you again for the opportunity of working with you on this project.

Warmest personal regards,

Mike Griffin President Whole Earth Environmental, Inc.



### Executive Summary Targa Eidson Ranch LC-61 #1 Remediation Project 1RP-2648

#### Location

The site is located approximately 6.37 miles southwest of the City of Lovington, Lea County, New Mexico on private land owned by the Eidson Ranch Estate and operated by Ranch Foreman Arzell Sellers. The primary land use is grazing of cattle however extensive oil and gas operations are prevalent in the area. The area is semi-arid with a net precipitation / evaporation amount of -73" per year. The legal description for the site is: SE/SE1/4 UL/P S27, T16S, R35E, GPS Lat & Lon WGS84(Decimal) N32.886096 / W103.47356. Depth to groundwater was confirmed at an active stock windmill with a pond located 1,378' south southeast of site. Water depth is 52.8'bleow ground surface.

#### History

Targa was approached by the Eidson Ranch Foreman on 4 historic release sites that needed to be cleaned up. Site #1 is located on an active 8" steel line which has been slip-lined with 6"ploy pipe. Targa's policy being pro-environmental initiated the investigation and excavation of the sites. After the site was excavated to a reasonable size approx.  $30^{\circ}$ L x  $30^{\circ}$ W x  $10^{\circ}$ D, Whole Earth Environmental Inc. was contracted to finish delineation of the sites. All excavated material from the site was hauled off from the site using a dirt contractor hired by Targa (Watson Construction Co.). Material was hauled to the JAY-DAN Surface Waste Management Facility Permit # NM 1-045.

#### **Delineation Activities**

The spill was an old historic leak, with the surrounding area of the pipeline spill being barren and with little to no vegetation growth. Site was excavated and material excavated from site was sent to an approved NMOCD Disposal site Jay-Dan Surface Waste Management Facility Permit # NM 1-045. The total amount of material

Targa Eidson Ranch LC-61 Site #1 1RP-2648

Page 1

excavated and sent to disposal for this site was approx. 360 cyds. After excavation of the spill site Whole Earth Environmental Inc. was contracted to assess the site for further delineation if needed. The site was initially sampled by Targa with samples being sent to Cardinal Labs in Hobbs for confirmation. Whole Earth Environmental Inc. re-sampled the site in accordance to NMOCD sampling procedure and sent the samples to the lab for confirmation. Lab results indicated no contamination and NMOCD was approached with the results. NMOCD indicated it was satisfied with the field and lab results and the site could be backfilled as needed and

#### Remediation

No remediation was required to be performed on this site. The site was backfilled with material from the Eidson Ranch caliche pit, walked down for compaction with the last top 1' being backfilled with topsoil also obtained from the Eidson ranch.





### **Exhibit Index**

- 1. Initial C-141
- 2. Driving Directions Sat. View
- 3. Sat. View close up with excavation dimensions
- 4. NMOCD Assessment Ranking Criteria
- 5. Summary of Soil Sample Analysis
- 6. Photo View of North Wall Sample pt.
- 7. Photo View of Caliche backfill
- 8. Photo View of Caliche backfill prior to Topsoil
- 9. Photo View of Site Backfilled & Completed
- 10. Final C-141





## SITE ASSESMENT CRITERIA (NMOCD)

TARGA

EIDSON RANCH LC-61 #1 SE/SE1/4 UL/P SEC 27 - T16S - R35E

GPS LAT & LON NAD27 (DECIMAL) N32.886096 / W103.437356 DTW: 52.8'BGS WINDMILL 1365' SW OF SITE

D	EPTH TO GR	OUND WATE	R	
(Vertical distance from conta	minants to seasonal	high water elevation of	ground water.)	
Less than 50' BGS	(20 points)			
50' to 99' BGS	(10 points)			
Greater than 100' BGS	(0 points)	20		
W	ELLHEAD PRO	DTECTION ARE	A	
(Less tan 200' from a private	domestic water sour	ce, or; less than 1000' fr	om all other water s	ources)
YES	(20 points)			
NO	(0 points)	0		
DISTA	ANCE TO SURI	FACE WATER B	ODY	
(Horizontal distance to peren	nial lakes, ponds, riv	ers, streams, creeks, irr	igation canals, and d	itches)
Less than 200'	(20 points)			
200' to 1000'	(10 points)			·
Greater than 1000'	(0 points)	0		1
RANKING SCOI	RE TOTAL POINTS	20		
CLEAN - UP TARC	GET CONCENT	TRATIONS FOR	"SITE CLOSU	RE"
IF RANKING SCORE IS:	> 19	10 - 19	0 - 9	
BENZENE (ppm)*	10	10	10	
BTEX (ppm)*	50	50	50	
TPH (ppm)**	100	1000	5000	
*A field vapor headspace me ** The contaminant concentr		•		sis.

Summary of Excavation Soil Sample Analytical Results Targa Eidson Ranch LC-61 #1

DEPTH TO GROUND WATER MEASURED AT WINDMILL S. OF #4 @ 52.8' BGS

	Chloride (mg/Kg)					<16.0	
200	Carbon Ranges (C10-C28) (mg/Kg)	24.2	<10.0	<10.0	<10.0	<50.0	
1	Carbon Ranges (C6-C10) (mg/Kg)	<10.0	<10.0	<10.0	<10.0	<\$0.0	
1 1 10	Ethyl- Total benzene Xylenes (mg/Kg) (mg/Kg)	<0.300	<0.300	<0.300	<0.300	7.12	
	Ethyl- benzene (mg/Kg)	<0.100	<0.100	<0.100	<0.100	0.402	
TOTATTA	Toluene (mg/Kg)	<0.100	<0.100	<0.100	<0.100	0.560	
111 111	FieldTolueneChlorideBenzeneTolueneAnalysis(mg/Kg)(mg/Kg)(ppm)	<0.100	<0.100	<0.100	<0.100	<0.100	
	Field Chloride Analysis (ppm)						
	PID Reading (ppm)						
	Soil Status	incitu amh	unicili, grau		insitu grab hand auger		
TOOTO	Sample Date	01/0/11	11/19/10 insitu, grab		1/2/11		
and and a success with the success of the minimum of the second of the s	Depth (Feet)	E. & W wall	01,02	N. wall H100029-01	S. wall H100029-02	Bottom H100029-03	
2	Soil Sample ID. Depth (Feet)	1#12-01	14 10-01		LC-61 #1		









November 29, 2010

RALPH ENGLAND TARGA MIDSTREAM - LOVINGTON P. O. BOX 1689 LOVINGTON, NM 88260

**RE: EIDSON RANCH** 

Enclosed are the results of analyses for samples received by the laboratory on 11/19/10 12:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Ber Method SW-846 8260 Ber Method TX 1005 To

Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Kune

Celey D. Keene Lab Director/Quality Manager

# CARDINAL

#### Analytical Results For:

TARGA MIDSTREAM - LOVINGTON RALPH ENGLAND P. O. BOX 1689 LOVINGTON NM, 88260 Fax To: (575) 396-7702

Received:	11/19/2010	Sampling Date:	11/19/2010
Reported:	11/29/2010	Sampling Type:	Soil
Project Name:	EIDSON RANCH	Sampling Condition:	Cool & Intact
Project Numbe	r: NONE GIVEN	Sample Received By:	Jodi Henson
Project Locatio	n: LEA CO., LC-61		

#### Sample ID: #1 EAST (H021346-01)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/25/2010	ND	2.28	114	2.00	1.13	
Toluene*	<0.100	0.100	11/25/2010	ND	2.15	108	2.00	0.572	
Ethylbenzene*	<0.100	0.100	11/25/2010	ND	2.28	114	2.00	0.832	
Total Xylenes*	<0.300	0.300	11/25/2010	ND	7.00	117	6.00	0.643	
Surrogate: Dibromofluoromethane	89.0 9	% 80-120							
Surrogate: Toluene-d8	90.9 9	80-120							
Surrogate: 4-Bromofluorobenzene	92.4 9	80-120							
TPH 8015M	mg/	kg	Analyze	d By: AB			1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/25/2010	ND	204	102	200	15.6	,
DRO >C10-C28	24.2	10.0	11/25/2010	ND	201	100	200	8.12	
Surrogate: 1-Chlorooctane	87.3 9	% 70-130							
Surrogate: 1-Chlorooctadecane	84.4 %	% 70-130							

**Cardinal Laboratories** 

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, whether limitation, business interruptions, loss of uses or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Liboratories,

Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

#### Analytical Results For:

TARGA MIDSTREAM - LOVINGTON RALPH ENGLAND P. O. BOX 1689 LOVINGTON NM, 88260 Fax To: (575) 396-7702 PHONE (575) 393-2326 º 101 F. MARLAND º HOBRS, NM 88240

11/19/2010	Sampling Date:	11/19/2010
11/29/2010	Sampling Type:	Soil
EIDSON RANCH	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
LEA CO., LC-61		
	11/29/2010 EIDSON RANCH NONE GIVEN	11/29/2010Sampling Type:EIDSON RANCHSampling Condition:NONE GIVENSample Received By:

#### Sample ID: #1 WEST (H021346-02)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/25/2010	ND	2.28	114	2.00	1.13	
Toluene*	<0.100	0.100	11/25/2010	ND	2.15	108	2.00	0.572	
Ethylbenzene*	<0.100	0.100	11/25/2010	ND	2.28	114	2.00	0.832	
Total Xylenes*	<0.300	0.300	11/25/2010	ND	7.00	117	6.00	0.643	
Surrogate: Dibromofluoromethane	90.9 %	80-120							
Surrogate: Toluene-d8	91.0 9	80-120							
Surrogate: 4-Bromofluorobenzene	94.3 %	80-120							
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/25/2010	ND	204	102	200	15.6	
DRO >C10-C28	<10.0	10.0	11/25/2010	ND	201	100	200	8.12	
Surrogate: 1-Chlorooctane	74.6 %	70-130						-	1
Surrogate: 1-Chlorooctadecane	73.9 %	6 70-130							

**Cardinal Laboratories** 

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clerk's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of uses or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate on the samples identified above. This report shall not be reproduced except in NII with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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# CARDINAL

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 9 of 9

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 04, 2011

ROY R. RASCON WHOLE EARTH ENVIRONMENTAL, INC. 2103 ARBOR COVE KATY, TX 77494

RE: T E R LC-61

Enclosed are the results of analyses for samples received by the laboratory on 12/29/10 16:18.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D.Keine

Celey D. Keene Lab Director/Quality Manager



Page 1 of 4

#### Analytical Results For:

WHOLE EARTH ENVIRONMENTAL, INC. ROY R. RASCON 2103 ARBOR COVE KATY TX, 77494 Fax To: (281) 394-2051

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Received:	12/29/2010	Sampling Date:	12/29/2010
Reported:	01/04/2011	Sampling Type:	Water
Project Name:	T E R LC-61	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

#### Sample ID: WINDMILL EIDSON (H021621-01)

BTEX 8021B	mg/L		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	12/30/2010	ND	0.050	101	0.0500	1.73	
Toluene*	<0.001	0.001	12/30/2010	ND	0.049	98.1	0.0500	1.38	
Ethylbenzene*	<0.001	0.001	12/30/2010	ND	0.049	97.8	0.0500	0.494	
Total Xylenes*	< 0.003	0.003	12/30/2010	ND	0.143	95.5	0.150	1.60	
Surrogate: 4-Bromofluorobenzene (PIL	107 %	80-120							
Chloride, SM4500Cl-B	mg/L		Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36.0	4.00	12/30/2010	ND	108	108	100	0.00	

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#### \*=Accredited Analyte

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

ARDINAL	ARDINAL LABORATORIES 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (325) 673-7001 FAX (325)673-7020 (505) 393-2326 FAX (505) 393-2476	603 1 (505)	01 East 393-23	t Marls	and, H.	, Hobbs, NM 505) 393-2476	IM 88.	140						5	ININ	PF-CU	LODY	AND	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	YSIS R	EQUES	Н		
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Page 4 of 4

January 12, 2011

ROY R. RASCON WHOLE EARTH ENVIRONMENTAL, INC. 2103 ARBOR COVE KATY, TX 77494

RE: T E R LC-61

Enclosed are the results of analyses for samples received by the laboratory on 01/06/11 8:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

WHOLE EARTH ENVIRONMENTAL, INC. ROY R. RASCON 2103 ARBOR COVE KATY TX, 77494 Fax To: (281) 394-2051

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS. NM 88240

Received:	01/06/2011	Sampling Date:	01/05/2011	
Reported:	01/12/2011	Sampling Type:	Soil	
Project Name:	T E R LC-61	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	LOVINGTON, NM			

#### Sample ID: NORTH WALL (H100029-01)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/11/2011	ND	1.97	98.5	2.00	4.07	
Toluene*	<0.100	0.100	01/11/2011	ND	2.16	108	2.00	0.696	
Ethylbenzene*	<0.100	0.100	01/11/2011	ND	2.11	105	2.00	2.72	
Total Xylenes*	<0.300	0.300	01/11/2011	ND	5.70	95.0	6.00	0.860	
Surrogate: Dibromofluoromethane	114 9	% 80-120							
Surrogate: Toluene-d8	114 9	80-120							
Surrogate: 4-Bromofluorobenzene	102 9	80-120							
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/11/2011	ND	250	100	250	4.93	
DRO >C10-C28	<10.0	10.0	01/11/2011	ND	232	92.8	250	6.25	
Surrogate: 1-Chlorooctane	83.1	% 70-130							
Surrogate: 1-Chlorooctadecane	88.5	% 70-130							

**Cardinal Laboratories** 

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

WHOLE EARTH ENVIRONMENTAL, INC. ROY R. RASCON 2103 ARBOR COVE KATY TX, 77494 Fax To: (281) 394-2051

Received:	01/06/2011	Sampling Date:	01/05/2011
Reported:	01/12/2011	Sampling Type:	Soil
Project Name:	T E R LC-61	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

#### Sample ID: SOUTH WALL (H100029-02)

BTEX 8260B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/11/2011	ND	1.97	98.5	2.00	4.07	
Toluene*	<0.100	0.100	01/11/2011	ND	2.16	108	2.00	0.696	
Ethylbenzene*	<0.100	0.100	01/11/2011	ND	2.11	105	2.00	2.72	
Total Xylenes*	<0.300	0.300	01/11/2011	ND	5.70	95.0	6.00	0.860	
Surrogate: Dibromofluoromethane	111 %	6 80-120							
Surrogate: Toluene-d8	109 %	6 80-120							
Surrogate: 4-Bromofluorobenzene	104 %	<i>80-120</i>							
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/11/2011	ND	250	100	250	4.93	
DRO >C10-C28	<10.0	10.0	01/11/2011	ND	232	92.8	250	6.25	
Surrogate: 1-Chlorooctane	77.3 9	% 70-130							
Surrogate: 1-Chlorooctadecane	77.8 9	70-130							

**Cardinal Laboratories** 

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Celey D. Keene, Lab Director/Quality Manager

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#### PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

WHOLE EARTH ENVIRONMENTAL, INC. ROY R. RASCON 2103 ARBOR COVE KATY TX, 77494 Fax To: (281) 394-2051

Berniterd	01/06/2011	Compliant Dates	01/05/2011
Received:	01/06/2011	Sampling Date:	01/05/2011
Reported:	01/12/2011	Sampling Type:	Soil
Project Name:	T E R LC-61	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM	24 - C	

#### Sample ID: BOTTOM @ 11' BGS (H100029-03)

BTEX 8260B	mg,	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/11/2011	ND	1.97	98.5	2.00	4.07	
Toluene*	0.560	0.100	01/11/2011	ND	2.16	108	2.00	0.696	
Ethylbenzene*	0.402	0.100	01/11/2011	ND	2.11	105	2.00	2.72	
Total Xylenes*	7.12	0.300	01/11/2011	ND	5.70	95.0	6.00	0.860	
Surrogate: Dibromofluoromethane	111	% 80-120	)						
Surrogate: Toluene-d8	144	% 80-120	)						
Surrogate: 4-Bromofluorobenzene	138	% 80-120							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/07/2011	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: AB					1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/11/2011	ND	250	100	250	4.93	
DRO >C10-C28	<50.0	50.0	01/11/2011	ND	232	92.8	250	6.25	
Surrogate: 1-Chlorooctane	105	% 70-130	1					-	
Surrogate: 1-Chlorooctadecane	110	% 70-130							

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#### \*=Accredited Analyte

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Celuy D. Keine

Celey D. Keene, Lab Director/Quality Manager

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#### **Notes and Definitions**

Z-01	Surrogates failed QC limits (high) due to objective matrix interference.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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	(325) 673-7001 FAX (325)673-7020 (505) 393-2326 FAX	3-7020	(505) 3	93-232	6 FAX		(505) 393-2476	76														
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n	BOTTOM @ 11'BGS		G	340			x	-	-	_	×		1/2/1	1			×	×	T	×		
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Page 6 of 6