

LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

H.E. West B #27 (2RP-668)

Corrective Action Plan

Two releases at the site

API No. 30-015-05074

Unit Letter N, Section 4, Township 17S, Range 31E



CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

April 4th, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: Corrective Action Plan Linn Energy – H.E. West B #27 (2RP-668) UL/N sec. 4 T17S R31E API No. 30-015-05074

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 6.5 miles northeast of Loco Hills, New Mexico at UL/N sec. 4 T17S R31E. This site is in an area of no known groundwater.

Two releases occurred at this site. The first release was from an injection line, which released a total of 50 barrels of produced water and 25 barrels of oil. A vacuum truck was dispatched to the site and recovered 30 barrels of produced water and oil. NMOCD was notified of release on February 17th, 2011 and an initial C-141 was approved by NMOCD on March 29th, 2011. The second release occurred on February 25th, 2011. A buried fiberglass line failed releasing 75 barrels of produced water and 30 barrels of hydrocarbons. Vacuum trucks were dispatched to the site the recovered 40 barrels of produced water and 20 barrels of hydrocarbons. Both releases together covered 17,267 square feet of pasture land. NMOCD and BLM were notified of the release and an initial C-141 was sent to NMOCD on March 30th, 2011 (Appendix A).

RECS personnel were on site beginning on October 10th, 2013. Fifteen sample points were taken throughout the release at the surface and with depth (Figure 1). The samples were field tested for chlorides and hydrocarbons and all surface samples were taken to a commercial laboratory for analysis. Points 11, 12 and 15 were augured down for depth and representative samples were taken to a commercial laboratory for analysis. Points 1 – 10 returned laboratory chloride readings at the surface below regulatory standards. Point 11 returned a laboratory chloride reading of 2,840 mg/kg at 2.5 ft bgs. Points 13 and 14 returned laboratory chloride readings at the surface below regulatory standards. Point 15 returned a laboratory chloride readings at the surface below regulatory standards. Point 15 returned a laboratory chloride reading of 2,600 mg/kg at 8 ft bgs. Gasoline Range Organics (GRO) returned readings of non-detect at all points

at all depth. Diesel Range Organics (DRO) returned elevated readings above regulatory standards at the surface of Point 5, Point 8 and Point 9. BTEX levels were non-detect at all points and at all depths (Appendix B).

Photo documentation of these activities can be found in Appendix C.

Corrective Action Plan

Based on the laboratory sampling data, the areas around Points 5, 8 and 11 will be scraped down 6 inches (Figure 2). The bottom of each scrape will be sampled to verify that all constituents are below regulatory standards. All excavated soils will be evaluated for use as backfill and any soils that do not meet regulatory standards will be disposed of at a NMOCD approved facility. The remaining soils will be blended on site to use as backfill. Clean soil will be imported to the site to replace any soils taken for disposal. A sample of the blended backfill will be taken to a commercial laboratory to confirm that the backfill has all constituents below regulatory standards.

Given the number of lines in and around Points 12 and 15, these areas will be scraped down 6 inches to 1 foot using a hydrovac. Once the scrapes are completed, these areas will be flooded with Ca++Nhance and clean water that will push the remaining chlorides below the nutritive zone and remediate the sodicity remaining from the produced water release. Ca++Nhance uses organic matter to increase the permeability of the soil and enhance microbial growth is the soil that immobilizes nutrients preventing leaching and building soil nutrient pools. After flooding the site, the bottom of each scrape will be sampled to verify that all constituents are below regulatory standards. The scrapes will then be backfilled with the blended soil.

All disturbed areas will be seeded with a blend of native vegetation. Vegetation will provide an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

Once these activities are completed, a report will be submitted to NMOCD and BLM detailing these actions and asking for 'remediation termination' and site closure.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer Project Scientist

RECS

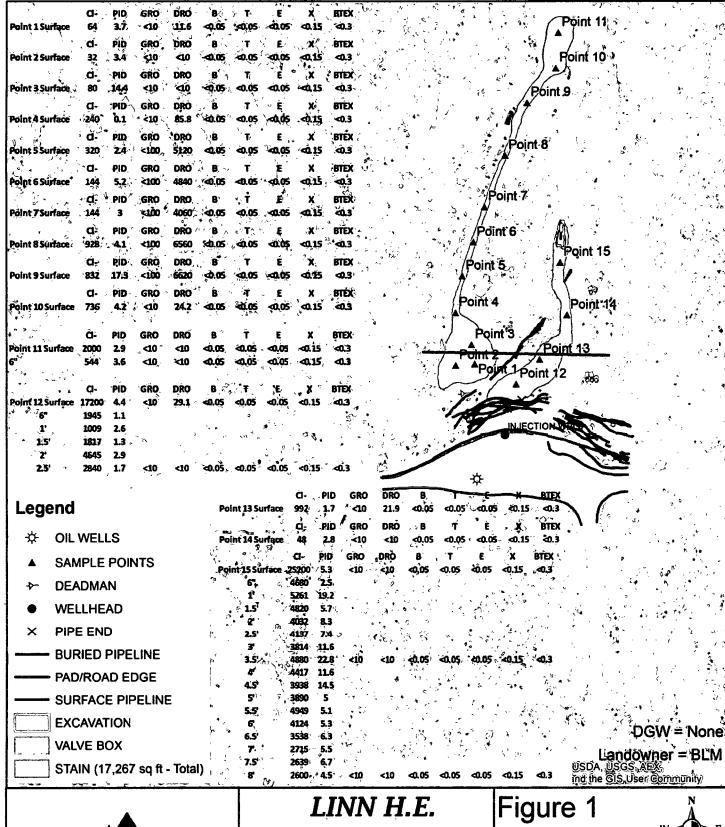
(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data
Figure 2 – Proposed Corrective Actions
Appendix A – Initial C-141s
Appendix B – Initial Sampling Lab
Appendix C – Photo Documentation

Figures

Initial Sampling Data





CONSULTING & SAFETY

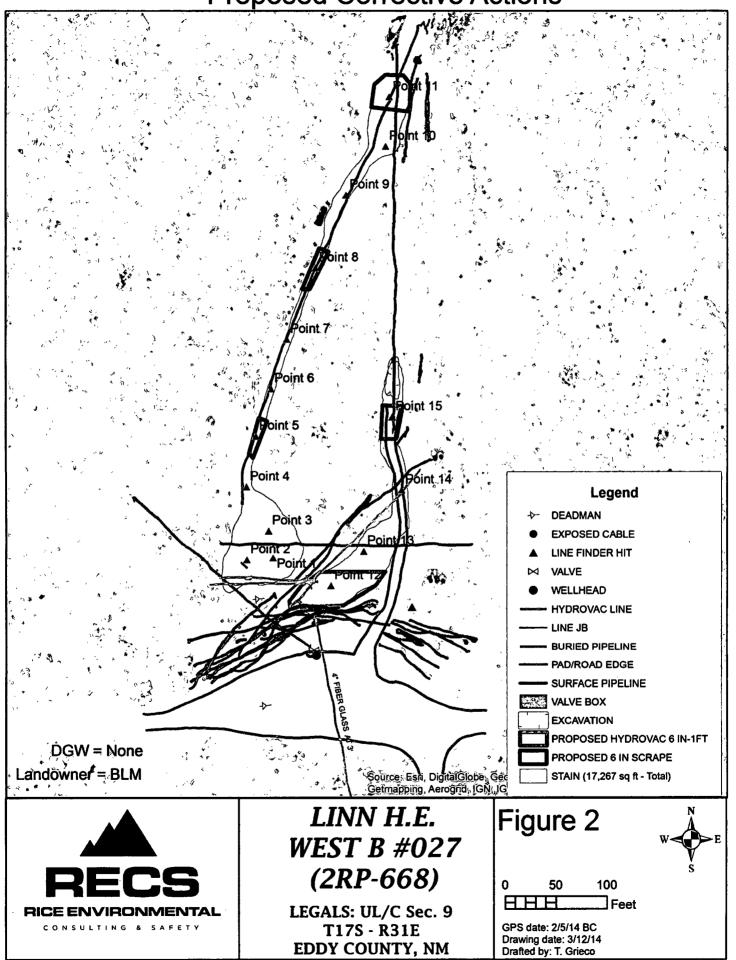
WEST B #027 (2RP-668)

LEGALS: UL/C Sec. 9 T17S - R31E **EDDY COUNTY, NM**



150 75

GPS date: 10/10/2013 KS **Drawing date: 10/21/13** Drafted by: L. Weinheimer **Proposed Corrective Actions**



Appendix A Initial C-141s

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



RECEIVED

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

MAR 28 2011

Form C-141 Revised October 10, 2003

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

			Rel	ease Notifi	catio	on and Co	orrective A	etion				
NKMK	2 110	88.380	71		,	OPERA	TOR		X Loiti	al Report		Final Repor
Name of Co	mpany Li	nn Operatin	g	26932	4	Contact De	nnis Potter					
		Loco Hills,					No. 575 206 76		·			
Facility Na	ne HEW	lest B No. 2	7 (Keel V	Vest Water Floo	<u>d)</u>	Facility Typ	e Injection We	eli				
Surface Ow	ner BLM			Mineral (Owner			,	API 30	No. NMLC -015-05074 Tracking	4 ·	
				T 00	A POT O	WOEDE	E D A OD		1 1 000100	TIGORE S		,,,,,,
Unit Letter	Section	Township	Range	Feet from the		N OF RE	Feet from the	Enet/W	est Line	County		
								1		1		
N	4	178	31E	660'		outh Line	1980'	W	/est	Eddy		
						50 Longitud E OF RELI						
Type of Rele	ase Produc	ed Water and	Oil		010	Volume of	Release		Volume F	Recovered 30)bbls	
Source of Re	ease Inject	ion Line			· · · · · ·		d Water/25bbls Clour of Occurrent		Date and	Hour of Dis	COVETY	
			· · · · <u>· · · · · · · · · · · · · · · </u>			Unknown		1	17Feb11	OI DIS		
Was Immedia	ite Notice C		Yes 🔲	No 🔲 Not Rec	quired	If YES, To Mike Brate	Whom? ther NMOCD					
By Whom? I						Date and H	lour 17Feb11					
Was a Watero	ourse Reac		Yes X	No		If YES, Vo	lume Impacting t	he Water	course.			
If a Watercou	rce was Imi	nacted Descri	he Fully *			1						
N/A	isc was mi	pacieu, Desci)	oe runy.									
area of poolin contaminated obtained an ar Hungry Horse Describe Area	ase was det g south of r soil to a de nalyzed for , LLC has h	ermined and release site. Or pth of approximately TPH, peen contracted and Cleanup A	action was nee all free imately 1'. Chlorides and to perfo	taken to stop lead e standing liquid v -2"BGS. Once the Lab analysis will rm the remediation	was rer e initial l be us on.	noved, the con action has bee ed to formulate	tractor will perform completed, delete a remediation w	rm excave ineation v ork plan	ation to re will take p for submis	move all sur clace with so ssion to NM	face sluid samp. OCD ar	udge and les being nd BLM.
regulations all public health of should their of	operators a or the environ perations ha ment. In ad	are required to conment. The sive failed to addition, NMO	report and acceptance dequately (CD) accept	d/or file certain re e of a C-141 report investigate and re ance of a C-141 r	lease not by the mediate	otifications and e NMOCD ma e contamination	d perform correct rked as "Final Re on that pose a thre	tive action port" doc at to grou	ns for relc es not relic und water,	ases which reve the opera Surface wat	nay end ator of i or, hum	langer liability lan health
Cionatura /	//		Ut				OIL CONS	SERVA	TION	DIVISIO	N	
Signature: A	Dennis Por	tter	_ WU			Approved by I	District Superviso	Al.	4 Br	MULE	مبيين	
Title: Asst. Pro						Approvai Date	11.1		piration D	Pate:		
E-mail Addres	s: dpotter@	linnenergy.co	m			Conditions of	• •			Attached		
Date: 28Feb1	I	Phone: 575 2	06 7673				liation per OC					}
Attach Additi							SUBMIT REM NOT LATER T		TION		2K	P-668
							4411					

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Attached [

Release Notification and Corrective Action **OPERATOR** X Initial Report Final Report Contact Dennis Potter Name of Company Linn Energy Telephone No. 575 677 2327 Address PO Box 69, Loco Hills, NM 88255 Facility Type Injection Well Facility Name H E West B #27 Mineral Owner BLM Surface Owner BLM Lease No. NMLC029426B API 30-015-05074 LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line Unit Letter Section Township Range County 178 31E Eddy N Latitude N32.8560 Longitude W103.8769 (Release Site) NATURE OF RELEASE Type of Release Produced Water/Hydrocarbons Volume of Release 75bbls prod Volume Recovered Unknown water/30bbls hydrocarbons 40bbls prod water/20bbls hydrocarbons Source of Release Buried Fiberglass Line (2nd Release) Date and Hour of Occurrence Date and Hour of Discovery 25Fcb11 25Fcb11 Was Immediate Notice Given? If YES, To Whom? Terry Gregston BLM/Mike Bratcher NM OCD No Not Required X Yes By Whom? Dennis Potter Date and Hour N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes X No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* The release is a result of a fiberglass line failure. Produced water was released and pooled to the south of the release. Vac trucks were called to vacuum all free standing liquid. Surface studge was removed by mechanical means and stockpiled on plastic for later disposal. Upon completion of all line repairs/replacements, delineation will be performed and a work plan submitted to NM OCD and BLM for approval, Describe Area Affected and Cleanup Action Taken.* I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Dennis Potter Title: Assistant Production Foreman Approval Date: Expiration Date:

Conditions of Approval:

Date: 30Marl1

E-mail Address: dpotter@linnenergy.com

Phone: 505 206 7673

^{*} Attach Additional Sheets If Necessary

Appendix B Initial Sampling Lab

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967





October 18, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #027

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab-accred-certif.html.

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

10/15/2013

Reported:

BTEX 8021B

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

:

10/10/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 1 @ SURFACE (H302489-01)

DIEX COLLO	9/	Ng .	Alaiyae	2 5 7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35	
Toluene*	<0.050	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23	
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82	
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78	
Total BTEX	<0.300	0.300	10/15/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	11.6	10.0	10/15/2013	ND	200	100	200	2.31	

Analyzed By: MS

Surrogate: 1-Chlorooctane 93.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name:

H. E. WEST B #027

Project Number: Project Location:

NONE GIVEN

Samplin

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 2 @ SURFACE (H302489-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35	
Toluene*	<0.050	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23	
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82	
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78	
Total BTEX	<0.300	0.300	10/15/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2 9	% 89.4-12	6				,		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	<10.0	10.0	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	89.2 9	65.2-14	0			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	92.79	63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keena



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name:

H. E. WEST B #027

Project Number: Project Location: **NONE GIVEN NOT GIVEN**

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 3 @ SURFACE (H302489-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35	
Toluene*	<0.050	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23	
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82	
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78	
Total BTEX	<0.300	0.300	10/15/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	97.9	% 89.4-12	6				-	•	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	<10.0	10.0	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	94.0	% 65.2-14	0				•	•••	
Surrogate: 1-Chlorooctadecane	99.8	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keena



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027

Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 4 @ SURFACE (H302489-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35	
Toluene*	<0.050	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23	
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82	
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78	
Total BTEX	<0.300	0.300	10/15/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	85.8	10.0	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	96.6	% 65.2-14	0					 	
Surrogate: I-Chlorooctadecane	103 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received: Reported: 10/15/2013

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

Analyte

GRO C6-C10

NOT GIVEN

Sampling Date: Sampling Type:

10/10/2013

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 5 @ SURFACE (H302489-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	1.90	95.1	2.00	1.49	
Toluene*	<0.050	0.050	10/17/2013	ND	1.97	98.5	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.00	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2013	ND -	5.96	99.4	6.00	1.35	
Total BTEX	<0.300	0.300	10/17/2013	ND			•		
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 89.4-120	5	•					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		i .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06

Method Blank

ND

ND

BS

208

200

% Recovery

104

100

True Value QC

200

200

RPD

2.60

2.31

Qualifier

Analyzed

10/15/2013

10/15/2013

DRO >C10-C28	5120	100
Surrogate: 1-Chlorooctane	87.0 %	65.2-14
Surrogate: 1-Chloroctadecane	25.1%	63 6-15

Result

<100

Reporting Limit

100

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(575) 397-1471 Fax To:

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 6 @ SURFACE (H302489-06)

m	a	1	kı

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Object de									
Chloride	144	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	144 mg/			ND d By: MS	416	104	400	3.92	S-06
					416 BS	104 % Recovery	400 True Value QC	3.92 RPD	S-06 Qualifier
TPH 8015M	mg/	kg	Analyze	d By: MS	· · · · ·				
TPH 8015M Analyte	mg/ Result	kg Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	

Surrogate: 1-Chlorooctadecane

245 %

63.6-154

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Fax To:

(575) 397-1471

Received: Reported: 10/15/2013

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

218%

63.6-154

Sampling Date:

10/10/2013 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 7 @ SURFACE (H302489-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	1.90	95.1	2.00	1.49	
Toluene*	<0.050	0.050	10/17/2013	ND	1.97	98.5	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.00	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	5.96	99.4	6.00	1.35	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/15/2013	ND	208	104	200	2.60	
		100	10/15/2013	ND	200	100	200	2.31	

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Surrogate: 1-Chlorooctadecane

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Received: Reported: 10/15/2013

10/18/2013 H. E. WEST B #027

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

10/10/2013

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 8 @ SURFACE (H302489-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	1.90	95.1	2.00	1.49	
Toluene*	<0.050	0.050	10/17/2013	ND	1.97	98.5	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.00	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	5.96	99.4	6.00	1.35	
Total BTEX	<0.300	0.300	10/17/2013	ND .					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/16/2013	ND	416	104	400	3.92	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	6560	100	10/15/2013	ND	200	100	200	2.31	

Surrogate: 1-Chlorooctane 84.7 % 65.2-140 Surrogate: 1-Chlorooctadecane 267 % 63.6-154

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Fax To: (575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 9 @ SURFACE (H302489-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					***
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	6620	100	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	100 5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	260 9	63.6-15	4						

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(575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027 **NONE GIVEN**

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

10/10/2013 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 10 @ SURFACE (H302489-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS	÷				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	24.2	10.0	10/15/2013	ND	200	100	200	2.31	
Surrogate: 1-Chlorooctane	108 %	65.2-14	o						•
Surrogate: 1-Chlorooctadecane	113 %	63.6-15	4						

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Received:

10/15/2013

Sampling Date:

10/10/2013

Reported:

10/18/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #027

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 11 @ SURFACE (H302489-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 89.4-120	5						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	<10.0	10,0	10/16/2013	ND	189	94.7	200	9.52	
Surrogate: 1-Chlorooctane	93.8 9	% 65.2-140	9						
Surrogate: 1-Chlorooctadecane	103 %	63.6-15-	4						

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Fax To:

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Analyzed By: MS

Received:

10/15/2013

Reported:

BTEX 8021B

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

10/10/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 12 @ SURFACE (H302489-12)

	91	•••	74141.720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.1	% 89.4-126						•••	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg .	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	29.1	10.0	10/16/2013	ND	189	94.7	200	9.52	
Surrogate: 1-Chlorooctane	95.2	% 65.2-140)						
Surrogate: 1-Chlorooctadecane	104 9	63.6-154	!						

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Fax To:

(575) 397-1471

Analyzed By: MS

Received:

10/15/2013

Sampling Date:

10/10/2013

Reported:

RTFY 8021R

10/18/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #027

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 13 @ SURFACE (H302489-13)

BTEX 8021B	mg/	kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND		•			
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 89.4-12	?6					٠,	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	21.9	10.0	10/16/2013	ND	189	94.7	200	9.52	
Surrogate: 1-Chlorooctane	96.2	% 65.2-14	10			•			
Surrogate: 1-Chlorooctadecane	105 9	63.6-15	54						

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JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:

10/15/2013

10/18/2013

Reported: Project Name: Project Number:

H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

ampling Date:

10/10/2013

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 14 @ SURFACE (H302489-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
									

Surrogate: 4-Bromofluorobenzene (PIL 9	98
--	----

98.7 %

89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	<10.0	10.0	10/16/2013	ND	189	94.7	200	9.52	

Surrogate:	1-Chlorooctane
------------	----------------

94.7 %

65.2-140

Surrogate: 1-Chlorooctadecane

98.0 %

63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

95.0 %

106%

65.2-140

63.6-154

Sampling Date:

Soil

Sampling Type: Sampling Condition:

10/10/2013 Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 15 @ SURFACE (H302489-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Fax To: (575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number:

H. E. WEST B #027

Project Location:

Analyte

NONE GIVEN

Sampling Date:

BS

10/14/2013

Sampling Type:

Soil

True Value QC

Sampling Condition:

Cool & Intact

Sample Received By:

% Recovery

Jodi Henson

RPD

Qualifier

Sample ID: POINT 11 @6" (H302489-16)

BTEX	8021B
------	-------

mg	/k

Result

Reporting Limit

Analyzed By: MS

Analyzed

Method Blank

•		, -	•			•			-
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 89.4-12	6	*					
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	<10.0	10.0	10/16/2013	ND	189	94.7	200	9.52	

o e

Surrogate: 1-Chlorooctadecane

97.8 %

63.6-154

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Fax To: (575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/14/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: POINT 12 @ 2.5' (H302489-17)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2013	ND	2.14	107	2.00	0.267	
Toluene*	<0.050	0.050	10/17/2013	ND	2.18	109	2.00	0.468	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.19	110	2.00	0.308	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	6.43	107	6.00	0.445	
Total BTEX	<0.300	0.300	10/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE 98	.4 % 89.4-126
---	---------------

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	<10.0	10.0	10/16/2013	ND	189	94.7	200	9.52	

Surrogate: 1-Chlorooctane	96.0 %	65.2-140
Surrogate: 1-Chlorooctadecane	106%	63.6-154

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Fax To:

(575) 397-1471

Received: Reported: 10/15/2013

10/18/2013

H. E. WEST B #027

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

10/14/2013 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 15 @ 3.5' (H302489-18)

BTEX 8021B

mg/kg

Analyzed By: MS

	***57	5		/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.78	89.1	2.00	0.150	
Toluene*	<0.050	0.050	10/18/2013	ND	1.90	95.2	2.00	2.95	
Ethylbenzene*	<0.050	0.050	10/18/2013	ND	1.94	96.8	2.00	3.35	
Total Xylenes*	<0.150	0.150	10/18/2013	ND	5.87	97.9	6.00	6.19	
Total BTEX	<0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL

103 %

89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	6.02	
DRO >C10-C28	<10.0	10.0	10/16/2013	ND	189	94.7	200	9.52	

Surrogate: 1-Chlorooctane

109 %

65.2-140

Surrogate: 1-Chlorooctadecane

111 %

63.6-154

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Fax To:

(575) 397-1471

Received:

10/15/2013

Reported:

10/18/2013

Project Name: Project Number: H. E. WEST B #027 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

10/14/2013

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 15 @ 8' (H302489-19)

BTEX 8021B

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.78	89.1	2.00	0.150	
Toluene*	<0.050	0.050	10/18/2013	ND	1.90	95.2	2.00	2.95	
Ethylbenzene*	<0.050	0.050	10/18/2013	ND	1.94	96.8	2.00	3.35	
Totał Xylenes*	<0.150	0.150	10/18/2013	ND	5.87	97.9	6.00	6.19	
Total BTEX	<0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC

100 %

89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	10/16/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2013	ND	192	96.1	200	· 6 . 02	
DRO >C10-C28	<10.0	10.0	10/16/2013	ND	189	94.7	200	9.52	

Surrogate: 1-Chlorooctane

94.7 %

65.2-140

Surrogate: 1-Chlorooctadecane

98.6%

63.6-154

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 Fast Marland, Hobbs, NM 88240, 2111 Beechwood

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to the transmin to the country to th	(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020
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Company Name:	ne: Lina Caeran		18						ANA	YSIS	ANALYSIS RECLIEST	IEST			
Project Manager:	James		P.O. #:			\vdash	<u> </u>	L				<u>i</u> -	L		
Address:	/		Company:						S 						
City: Hobbs	State: NM	Zlp: 88240	Attn:						uc						
Phone #:	Fax#:		Address:						iu		 .				
Project #:	Project Owner:		City:				IAI	<u> </u>							
Project Name:			State:	Zip:											
Project Location	Project Location: H.E. West 84027		Phone #:			bin PO	(3.	LS		SC					
Sampler Name	Sampler Name: Kyle Schnaidt		Fax #:												
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING							_		_		
Lab I.D.	Sample I.D.	. ЭМО (С) ОМР. ВЯЗИАТ ВЭТАМОМ БАТЕК ЗЭТАМЭ	OOF Vee:					<u> </u>	telqmo:						
H30348B		# сои	OTHEI OTHEI	DATE	TIME				<u> </u>						
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9	Point 6 @ Surface	6 1 K	8		2:25	<u>≾</u> ≽	<u>م</u> م					_	_		
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B	Point 8 @ Surface	X // 9	×		2.35	ठ '>	×					_	_		
or S	Point 9 @ subject	X	8		2:40	প্র প্র					-	-	_		
7	10:11 10 @ Surface		X		2:15	X X	<u> </u>					_			
PLEASE NOTE: Liability	PLEASE NOTE: Liability and Damages. Cardinal's (lability and client's exclusive remedy for any daim sits	ly claim entsing whether based in contract or fort, shall be limited to the amount paid by the client for the	of fort, shall be limited t	to the amount paid b	y the client for th									l	

Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com kschnaidt@rice-ecs.com Knorman@rice-ecs.com Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

サングサ

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (506) 393-2476 (325) 673-7001 FAX (325)673-7020 ARDINAL LABORATORIES

Company Name:	e: Linn cnerau		<i>18</i>	91 TE				1	ANALYSIS		REQUEST	 			Γ
Project Manager: Jacob			P.O. #:			-	\vdash	-	H	_		\vdash		\vdash	Γ
Address:			Company:						S						
City: Hobbs	State: NM Zip: 88	88240	Attn:		<u> </u>				uo				···		
Phone #:	Fax #:		Address:					•	iu					<u></u>	
Project #:	Project Owner:		City:		•	M			/ //S						
Project Name:			State:	Zlp:	S ()										
Project Locatio	Project Location: A.E. West 8 井の2フ		Phone #:		oin	108	 (3.	<u></u>	SC						
Sampler Name:	Sampler Name: Kyle Schnaidt		Fax #:		Olr									-	
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	10										
Lab I.D. H302489	Sample I.D.	FCONTAINERS ROUNDWATER NASTEWATER SOIL JICE	THER: CEICOOL CEICOOL	DATE)				Complete				· · · · · · · · · · · · · · · · · · ·		
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7	Point 14 @ Surface 6	<u>~</u>	¥	10-10-13 3:05	8	X	٨			_		-			
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<u> </u>	Point 11 @ 6" 6	×	×	saj stritoi	`\	>	- '\					-		-	
11	Point 12 @ 2.5' 6	*	×	10-14-13 1:10	፞୪	;`` '`≱			L			,		_	
18	Point 150 3	- X	X	10-14-B 11:30	<u>`</u>	ا بر	×							<u> </u>	
6		×	X	16-49-13 11:35	>	X	X		_					H	
					×	2 }	×	,	-			-	-		
PLEASE NOTE: Liability	PLEASE NOTE: Liability and Damages. Cardinatis liability and client's exclusive remedy for eny cleim aishing whether based in contract or tort, einel be limited to the amount paid by the client for the	n arising whether based in contra	ict or tort, shall be limited	to the amount paid by the client	or the		ŀ							l	1

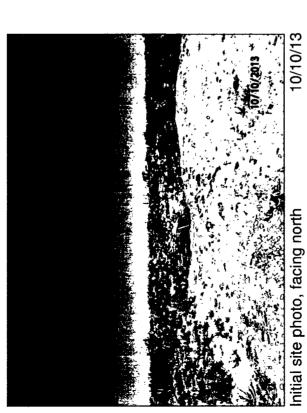
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com kschnaidt@rice-ecs.com Knorman@rice-ecs.com Phone Result Fax Result: REMARKS: Sample Condition Cool Intact Thes Gres Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-244

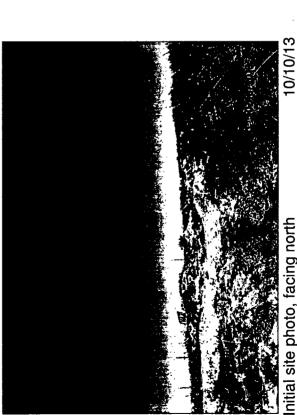


RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

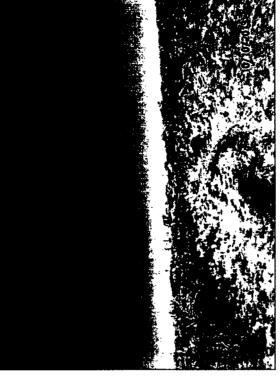
Linn H.E. West B #27 (2RP-668)Unit Letter N, Section 4, T17S, R31E







Initial site photo, facing north



Initial site photo, facing north



Initial site photo, facing south

10/10/13

