# losure Report



	Site Description
Site Name:	JR Holt NCT A #6Y Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L G, Section 16, T24S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.21735° W 103.16608°

# **Release Data**

Date of Release:	03/28/2015
Type of Release:	Oil and produced water
Source of Release:	Vent line corroded
Volume of Release:	15 bbls produced water, 8 bbls oil
Volume Recovered:	Unknown

	Remediatio	n Specifications			
Remediation Parameters:	Excavate the area around SP1 to a depth of 3.5 feet. Excavate the area around SP2 to a depth of 2.5 feet. Tank confirmation samples. Backfill the site with clean soil.				
Remediation Activities:	02/23/2016 to 02/29/2016				
Plan Sent to OCD:	05/28/2015	Email from Talon to Kellie Jones			

Plan Sent to OCD:	05/28/2015	Email from Talon to Kellie Jones
OCD Approval of Plan:	06/22/2015	Email from Kellie Jones to Talon
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

	Supporting Documentation
Initial C-141	Signed 04/28/2015
Final C-141	Signed 03/02/2016
Site Diagram	February 2016
Groundwater Plot	75'-100'
TOPO Maps	February 2016
Lab Summary	04/07/2015, 05/01/2015, and 02/24/2016
Lab Analysis	04/07/2015, 05/01/2015, and 02/24/2016
Correspondence	Request and approval of remediation plan via email

# **Request for Closure**

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

03/04/2016

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te of New Mexico Energy Minerals and Natural Resources APR 30 2015 Oil Conservation Division

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

1625 N. French Dr., Hobbs, NM 88240.

1000 Rio Brazos Road, Aztec, NM 87410

District II District II District III District III

District I

	1220 South St. Francis Dr.
RECEIVED	Santa Fe, NM 87505

**Release Notification and Corrective Action** 

Name of Company OVV 10 4 1910	OPERATOR Initial Report Final Report
Name of Company: OXY USA INC Address: 102 S. Main St. Carlsbad, NM 88220	Contact: Chris Jones
Facility Name: I B Hold NCT A HON	Telephone No.: 575-628-4121
	Facility Type: Battery
Surface Owner: Private Mineral Owner	A D! No . 20.000 2/(70)

					Jwner:		API No.: 30-025-366	79
Unit Letter	Santian		r- <u></u>	LOCA	TION OF RE	LEASE		
G	Section	Township 24S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line County	

_	16	245	 37E	2530'	North North	2005'	East/West Line East	County Lea	
				Lodian I. oo	*****				

attude <u>32,41091</u>	<u>N</u> Longitud	e <u>-103.7</u>	4235 W
NATURE	OFDET	FASE	

8 bbls Oil	Volume Recovered: Unknown
3/28/2015	Date and Hour of Discovery 3/28/2015
Date and Hour: If YES, Volume Impacting the Wate	ercourse.
	f mix fluids within the berm of the ve
	Date and Hour of Occurrence 3/28/2015 If YES, To Whom? Date and Hour: If YES, Volume Impacting the Wate

ea Affected and Cleanup Action Taken.\* The impacted area was within the berms surrounding the vent and breaching the berms measuring approximately 20' x 20' in the pasture around surrounding the berm. Talon/LPE has already performed site assessment and soil sampling activities, further delineation will be required.

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

Signature: Jones	OIL CONSERVATION	DIVISION
Printed Name: Chris Jones	Approved by Environmental Specialist:	$\sim$
Title: HES Specialist	Approval Date: 0-5 101 2015 Expiration	Date: 08 (01 2015
E-mail Address: Christopher.Jones@oxy.com Date: 4/28/2015 Phone: 575-628-4121 Attach Additional Sheets If Necessary	Conditions of Approval: -Sik samples required	Attached [] 16694 1889 - 3624
- -	- Deliniate and remulick per nmorb suidily - Gestag photograph, of	PKJ1512133459 MKJ1512133049

remediction required.

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form Cel 41 Revised August 8, 2011

Release Notification and Corrective Action         OPERATOR       Initial Report       Final Report         Name of Company Oxy Permian Ltd.       Contact. Casey Summers         Address       6 Desta Drive, Midland, TX 79705       Telephone No. (575) 513-8289         Facility Name       JR Holt NCT A #6Y Battery       Facility Type       Battery         Surface Owner       Private       Mineral Owner       API No. 30-025-36679         LocATION OF RELEASE       Location the Bast/West Line       County         G       16       24S       37E       C330         Lutitude N 32.41591"       Longitude W 103.74235"       Lea County. NM         Latitude N 32.41591"       Longitude W 103.74235"       NATURE OF RELEASE         Type of Release       Oil and Produced water       Volume of Release & 8bbls oil.       Volume Recovered       Unknown         Source of Release Vent line corroded       Date and Hour       If YES. To Whom?       If YES. To Whom?       If YES. To Whom?         Was a Watercourse was Impacted. Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.*       A vent line corroded causing a 23 barrel release of mix fluids within the berm of the vent, breaching the berms. A vac truck was immediately cailed to the location and recovered an unknown amount of fluids.         Describe Cause of Problem and Reme	1220 S. St. Franc	cis Dr., Santa	Fe, NM 87505		Sa	nta F	e, NM 875	05					
Name of Company       Oxy Permian Ltd.       Contact       Casey Summers         Address       6 Desta Drive, Midland, TX 79705       Telephone No.       (575) 513-8289         Facility Name       IR Holt NCT A #67 Battery       Facility Type       Battery         Surface Owner       Private       Mineral Owner       API No. 30-025-36679         LOCATION OF RELEASE       LOCATION OF RELEASE       County         G       16       24S       37E       2530       North       2005       East       Lea County, NM         Latitude       N 3241591"       Longitude W 103.74235°       North       2005       East       Lea County, NM         Source of Release       Ori and Produced water       Volume of Release 8 bbls oil, 15 bbls produced water       Yolume Recovered       Unknown         Source of Release       Vent line corroded       Date and Hour of Decurrence 0.328/2015       Date and Hour of Discovery         Was a Watercourse Reached?       If YES, To Whom?       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.*         A vent line corroded causing a 23 barrel release of mix fluids within the berms of the vent, breaching the berms. A vac truck was immediately called to the location and recovered an unknown amount of fluids.         Descr				Rele	ase Notific	atio	n and Co	orrective A	ction				
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Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.*         A vent line corroded causing a 23 barrel release of mix fluids within the berm of the vent, breaching the berms. A vac truck was immediately called to the location and recovered an unknown amount of fluids.         Describe Area Affected and Cleanup Action Taken.*         The impacted area was within the berms surrounding the vent and breaching the berms, measuring approximately 20' x 20' in the pasture around the berm. Remediation was completed in accordance with the remediation plan approved by Kellie Jones of NMOCD on 06/22/2015.         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 release 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 or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of releave the operator of releave the operator of releave the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.         OIL CONSERVATION DIVISION			L	res 🗵		equired							
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Signature:	Signature:	1p								1.	.bu		
Approved by Environmental Specialist:		V	S				Approved by	Environmental S	Speciali	st: //am	+ luye		
Printed Name: Casey Summers 03/04/2016 ///	Printed Nam	ie: Casey	Summers					03/04/2016				_	
Title:     NM Environmental Advisor       Approval Date:     03/04/2016       Expiration Date:     ///	Title: NM	Environme	ntal Advisor				Approval Da	nte:		Expiration	Date:		
E-mail Address: Casey_Summers@oxy.com Conditions of Approval:	E-mail Addr	ess: Case	y_Summers@	Doxy.com	_	- (4)	Conditions of	of Approval:			Attached	d 🔲	
Date: 3 - 2 - 1C Phone: (575) 513-8289 /// 1RP 3624	Date	3.2	- 14	Phone	e: (575) 513-82	89							
Attach Additional Sheets If Necessary		itional She	ets If Neces				1 1 1 1 1						





**Groundwater Plot** 

# Oxy JR Holt NCT A #6Y Battery



Location





Section Quarters

# Oxy JR Holt NCT A #6Y Battery



Оху

JR Holt NCT A #6Y Battery





**JR Holt NCT A #6Y Battery** 





**RECEIVED** By OCD District 1 at 8:19 am, Jun 22, 2015

Mrs. Kellie Jones NMOCD District I 1625 N. French Dr.

# **APPROVED**; Conditionally

By OCD District 1 at 8:19 am, Jun 22, 2015

AMARILLO 921 North Bivins Amarillo. Texas 79107

1. At a minimum, two confirmation samples should be taken.

Phone 806.467.0607 Fax 806.467.0622 Subject:

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 OXY USA INC. (OXY) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Soil Assessment and Remediation Work Plan

# **Incident Date**

Dear Mrs. Jones:

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

Fax 575.393.4658

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

> SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191

The release was discovered was March 28, 2015.

Oxy USA Inc. J R Holt NCT A #6

API#: 30-025-36679

1RP-3624 & 1RP-3625

# **Background Information**

The J R Holt NCT A #6 is located approximately eighteen (18) miles southeast of Jal in Lea County, New Mexico. The legal location for this site is Section 16, Township 24 South, and Range 37 East. More specifically the latitude and longitude for the release are 32.41591 North and -103.74235 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Berino-Cacique association, hummocky. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S8-T24S-R37E. The ground water in Section 8 is reported to be a depth of 87' below ground surface (bgs). See Appendix II for the referenced groundwater data.

The ranking for this site is 10 based on the following:

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Depth to ground water	50'- 100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Page 1 of 3

Toll Free: 866.742.0742 www.talonlpe.com

# **Incident Description**

A vent line corroded causing a release of 23 barrels of mixed fluids which breached the containment berms. A vac truck was immediately called to the location, recovering an unknown amount of fluids. The impacted area was within the berms surrounding the vent and the flow path breaching the berms measuring approximately 20' x 20' in the pasture around surrounding the berm.

# **Actions Taken**

On April 7, 2015 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-3 feet deep hitting refusal. See Table 1 below. The full lab report is provided in Appendix III.

On May 1, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples utilizing a backhoe. See Table 2 below highlighting the analytical results. The full lab report is also provided in Appendix III.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

# Laboratory Results

See Appendix III for complete report of laboratory results.

April 14, 2015

					Table 1
Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	301	2040	6040	16400
	1'	401	496	6210	13600
	2'	237	<16	3400	7210
Refusal	3'	192	160	2060	4240
S-2	0'	42.7	1580	1520	41600
	1'	411	4120	3910	9240
Refusal	2'	344	6640	3870	11000

# May 11, 2014

					Table 2
Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	4'	< 0.300		<10	16.7
	5'	< 0.300		<10	139
	6'	< 0.300		<10	15.2
S-2	3'	< 0.3600	288	<10	35.4
	4'	< 0.300	604	<10	111
	5'	< 0.300	240	<10	26.5

--Analyte Not Tested

# **Proposed Remedial Actions:**

- The impacted area in the vicinity of S-1 will be excavated to a minimum depth of 3.5-feet bgs. Field PID readings will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) a confirmation soil sample will be taken to insure all of the impacted material was removed.
- The impacted area in the vicinity S-2 will be excavated a minimum of 2.5-feet deep. Field PID readings will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) confirmation soil samples will be taken to insure all of the impacted material was removed.
- All the contaminated soil will be transported to Lea Land, LLC, an approved disposal facility.
- Upon approval by the NMOCD, the excavated areas on location will be backfilled with caliche and re-contoured to match the surrounding location.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

imberly M. Wilson

Kimberly M. Wilson Project Manager

David J. Adkins District Manager

Page 3 of 3

**APPENDIX I** 

# SITE MAP



# **APPENDIX II**

# GROUNDWATER DATA

# INITIAL C-141



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)						2=NE 3 st to larç	=SW 4=Sl gest) (N	E) NAD83 UTM in me	eters)	(	In feet)	
	POD Sub-	0	Q	0							Denth	Depth	Water
POD Number	Code basin Cou				Sec	Tws	Rng	х	Y	Distance			Column
CP 00307	LI					24S		673378	3565105* 🌍	1426	86		
CP 00301	LI	E 4	2	1	22	24S	37E	674182	3564918* 🌍	1900	85		
CP 00305	LI	E 3	3	3	14	24S	37E	675180	) 3565341* 🌍	2344	100		
CP 00306	LI	E 3	3	3	14	24S	37E	675180	) 3565341* 🌍	2344	100		
CP 00308	LI	E 3	1	3	22	24S	37E	673594	3564107* 🌍	2446	90		
CC 00348	LI	E 2	4	4	05	24S	37E	671708	3 3568698* 🌍	2617			
CP 00410	L	E 3	4	1	08	24S	37E	670718	3 3567680* 🌍	2696	115	87	28
CP 00413	L	Е 3	4	1	08	24S	37E	670718	3 3567680* 🌍	2696	185		
CP 00443	L	E 3	4	1	08	24S	37E	670718	3 3567680* 🌍	2696	125	90	35
CP 00912	L	E 1	1	1	11	24S	37E	675130	) 3568357* 🌍	2706	95		
CP 00295 POD3	Ľ	E 4	4	4	21	24S	37E	673467	3563627 🌍	2903	112		
CP 00349	L	E 3	3 4	1	03	24S	37E	673905	5 3569343* 🌍	2929			
									Avera	ige Depth to	Water	: 88	feet
										Minimum	n Depth	: 87	feet
										Maximum	Depth	: 90	feet

#### Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 673149

Northing (Y): 3566513

Radius: 3000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 HOUBSOCD State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

APR 30 2015 Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

# **Release Notification and Corrective Action**

OPERATOR	🛛 Initial Report	Final Report
Contact: Chris Jones	· · · · · · · · · · · · · · · · · · ·	}
Telephone No.: 575-628-4121		
Facility Type: Battery		
	Contact: Chris Jones Telephone No.: 575-628-4121	Contact:         Chris Jones           Telephone No.:         575-628-4121

Surface Owner: Private

Mineral Owner:

API No.: 30-025-36679

# LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	16	245	37E	2530'	North	2005'	East	Lea

# Latitude <u>32.41591 N</u> Longitude <u>-103.74235 W</u> NATURE OF RELEASE

Type of Release: Mix Fluids	Volume of Release: 15 bbls PW	Volume Recovered: Unknown
	8 bbls Oil	
Source of Release: Vent Line Corroded	Date and Hour of Occurrence	Date and Hour of Discovery
	3/28/2015	3/28/2015
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🛛 No 🗌 Not Required		
By Whom?	Date and Hour:	•
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken: A vent line corroded causing a 23 barrel release of mix fluids within the berm of the vent breaching the berms. A vac truck was immediately call to the location and recovered unknown barrels of fluids.

Describe Area Affected and Cleanup Action Taken.\* The impacted area was within the berms surrounding the vent and breaching the berms measuring approximately 20' x 20' in the pasture around surrounding the berm. Talon/LPE has already performed site assessment and soil sampling activities, further delineation will be required.

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.

Chris Digitally signed by Chris J DN: cn=Chris Jones, o, ou, wemail=ckjones888@yahoc	.co	OIL CONSERV	ATION I	DIVISION
Signature: Jones		Approved by Environmental Specialis	st: 15	~
Title: HES Specialist		Approval Date: 05/01/2015	Expiration D	ate: 08/01/2015
E-mail Address: Christopher.Jones@oxy.com Date: 4/28/2015 Phone:	m 575-628-4121	Conditions of Approval: SIK Samples Manual		Attached [] 16694
Attach Additional Sheets If Necessary		- Delipiate and remule nmoch guidely - Gestag thotograph, of		PKJ151213344 MKJ15121330

remuduction required.

# **APPENDIX III**

# LABORATORY RESULTS



April 14, 2015

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: J R HOLT NCT 'A' 6Y BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/07/15 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

## Sample ID: S-1 0' (H500915-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.63	5.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	90.7	5.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	45.8	5.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	156	15.0	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	301	30.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 119 % 61-154

Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/08/2015	ND	416	104	400	0.00	
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	6040	100	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	16400	100	04/07/2015	ND	191	95.4	200	0.113	
Surrogate: 1-Chlorooctane	207 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	227 9	% 52.1-17	6						

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\*=Accredited Analyte

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Celeg D. Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 1' (H500915-02)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.9	5.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	132	5.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	80.8	5.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	175	15.0	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	401	30.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL 119 % 61-154

202 %

52.1-176

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/08/2015	ND	416	104	400	0.00	
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	6210	100	04/08/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	13600	100	04/08/2015	ND	191	95.4	200	0.113	
Surrogate: 1-Chlorooctane	193 9	47.2-15	7						

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Surrogate: 1-Chlorooctadecane

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

## Sample ID: S-1 2' (H500915-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.05	2.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	75.1	2.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	52,1	2.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	100	6.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	237	12.0	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL 122 % 61-154

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/08/2015	ND	416	104	400	0.00	
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	3400	100	04/08/2015	ND	198	98.9	200	5.38	
DRO >C10-C28	7210	100	04/08/2015	ND	209	104	200	7.52	
Surrogate: 1-Chlorooctane	154	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

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Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 3' REFUSAL (H500915-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.1	1,00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	64.8	1.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	41.3	1.00	04/10/2015	ND	1.70	84.9	2.00	2,43	
Total Xylenes*	76.1	3.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	192	6.00	04/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	127 9	61-154	1						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/08/2015	ND	416	104	400	0.00	
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	2060	100	04/08/2015	ND	198	98.9	200	5.38	
DRO >C10-C28	4240	100	04/08/2015	ND	209	104	200	7.52	
Surrogate: 1-Chlorooctane	160	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	134	% 52.1-17	17						

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Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-2 0' (H500915-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	4.17	1.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	5.41	1.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	33,1	3.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	42.7	6.00	04/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	126 9	61-154	5						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	04/08/2015	ND	416	104	400	0.00	
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	1520	100	04/08/2015	ND	198	98.9	200	5.38	
DRO >C10-C28	41600	100	04/08/2015	ND	209	104	200	7.52	
Surrogate: 1-Chlorooctane	189	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	298	% 52.1-17	6						

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Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		
Project Number:	70060843801	· · · · · · · · · · · · · · · · · · ·	

# Sample ID: S-2 1' (H500915-06)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.8	2.00	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	123	2.00	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	93.3	2.00	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	184	6.00	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTEX	411	12.0	04/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 61-154	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	04/08/2015	ND	416	104	400	0.00	
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	3910	100	04/08/2015	ND	198	98.9	200	5.38	

04/08/2015

209

ND

104

#### **Cardinal Laboratories**

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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7.52

200

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Celeg Di Keene

9240

162 %

169 %

100

47.2-157

52.1-176

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/07/2015	Sampling Date:	04/07/2015
Reported:	04/14/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-2 2' REFUSAL (H500915-07)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.76	2.00	04/10/2015	ND	2.04	102	2.00	1.34	
Toluene*	104	2.00	04/10/2015	ND	1.85	92.7	2.00	1.29	
Ethylbenzene*	75.5	2.00	04/10/2015	ND	1.85	92.4	2.00	1.72	
Total Xylenes*	155	6.00	04/10/2015	ND	5.90	98.3	6.00	2.17	
Total BTEX	344	12.0	04/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	124 9	% 61-154							
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	04/08/2015	ND	416	104	400	0.00	
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	3870	100	04/08/2015	ND	198	98.9	200	5.38	
DRO >C10-C28	11000	100	04/08/2015	ND	209	104	200	7.52	
Surrogate: 1-Chlorooctane	152	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane									

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Celey D. Keene, Lab Director/Quality Manager



# **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 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

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Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

-+

Page 10 of 10

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories



May 11, 2015

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: J R HOLT NCT 'A' 6Y BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/04/15 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 4' (H501154-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 108 % 61-154 TPH 8015M mg/kg Analyzed By: CK Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 05/05/2015 10.0 ND 203 101 200 0.827 DRO >C10-C28 05/05/2015 16.7 10.0 ND 105 210 200 1.22 Surrogate: 1-Chlorooctane 98.7 % 47.2-157

#### **Cardinal Laboratories**

Surrogate: 1-Chlorooctadecane

98.7%

52.1-176

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 5' (H501154-02)

BTEX 8021B mg/kg		Analyze	d By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 107 % 61-154 TPH 8015M mg/kg Analyzed By: CK Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10 05/05/2015 <10.0 10.0 ND 203 101 200 0.827 DRO >C10-C28 05/05/2015 136 10.0 ND 210 105 200 1.22

47.2-157

52.1-176

99.1%

102 %

#### **Cardinal Laboratories**

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

#### \*=Accredited Analyte

Qualifier

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

# Sample ID: S-1 6' (H501154-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID	110	% 61-154							
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	15.2	10.0	05/05/2015	ND	203	101	200	2.52	
Surrogate: 1-Chlorooctane	98.4	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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#### \*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

## Sample ID: S-2 3' (H501154-04)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 108 % 61-154

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/06/2015	ND	461	115	400	6.49	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	35.4	10.0	05/05/2015	ND	203	101	200	2.52	
Surrogate: 1-Chlorooctane	98.4	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 95.3 % 52.1-176

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Keene



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

## Sample ID: S-2 4' (H501154-05)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	0.084	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	0.072	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 110 % 61-154

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	604	16.0	05/06/2015	ND	461	115	400	6.49	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	111	10.0	05/05/2015	ND	203	101	200	2.52	
Surrogate: 1-Chlorooctane	92.6	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

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#### \*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	05/04/2015	Sampling Date:	05/01/2015
Reported:	05/11/2015	Sampling Type:	Soil
Project Name:	J R HOLT NCT 'A' 6Y BATTERY	Sampling Condition:	Cool & Intact
Project Number:	70060843801	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

## Sample ID: S-2 5' (H501154-06)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2015	ND	1.97	98.7	2.00	1.90	
Toluene*	<0.050	0.050	05/06/2015	ND	1.78	88.8	2.00	1.93	
Ethylbenzene*	<0.050	0.050	05/06/2015	ND	1.70	85.2	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/06/2015	ND	5.62	93.7	6.00	2.85	
Total BTEX	<0.300	0.300	05/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 108 % 61-154

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	05/06/2015	ND	461	115	400	6.49	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.5	200	3.00	
DRO >C10-C28	26.5	10.0	05/05/2015	ND	203	101	200	2.52	
Surrogate: 1-Chlorooctane	93.9	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 92.6 % 52.1-176

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#### \*=Accredited Analyte

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Celeg D. Keine-

Celey D. Keene, Lab Director/Quality Manager



#### **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 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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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 9 of 9

# Laboratories

changes, Please fax written changes to (575) 3932326
# Laboratory Analytical Results Summary JR Holt NCT A #6Y Battery

		Sample	SP1 @ 3.5'
Analyte	Method	Date	2/24/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP2 @ 2.5'
Analyte	Method	Date	2/24/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



February 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: JR HOLT NCT A #6Y

Enclosed are the results of analyses for samples received by the laboratory on 02/24/16 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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:

BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	02/24/2016	Sampling Date:	02/24/2016
Reported:	02/26/2016	Sampling Type:	Soil
Project Name:	JR HOLT NCT A #6Y	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

## Sample ID: SP 1 @ 3.5 (H600416-01)

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	02/25/2016	ND	1.94	97.1	2.00	1.27	
Toluene*	<0.050	0.050	02/25/2016	ND	1.90	95.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/25/2016	ND	1.74	87.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/25/2016	ND	5.33	88.8	6.00	1.06	
Total BTEX	<0.300	0.300	02/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	73.6-140	)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2016	ND	416	104	400	7.41	
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	02/25/2016	ND	208	104	200	3.32	
DRO >C10-C28	<10.0	10.0	02/25/2016	ND	224	112	200	3.37	
Surrogate: 1-Chlorooctane	91.8	% 35-147							
Surrogate: 1-Chlorooctadecane	100 9	6 28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	02/24/2016	Sampling Date:	02/24/2016
Reported:	02/26/2016	Sampling Type:	Soil
Project Name:	JR HOLT NCT A #6Y	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

## Sample ID: SP 2 @ 2.5 (H600416-02)

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	02/25/2016	ND	1.94	97.1	2.00	1.27	
Toluene*	<0.050	0.050	02/25/2016	ND	1.90	95.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/25/2016	ND	1.74	87.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/25/2016	ND	5.33	88.8	6.00	1.06	
Total BTEX	<0.300	0.300	02/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2016	ND	416	104	400	7.41	
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	02/25/2016	ND	208	104	200	3.32	
DRO >C10-C28	<10.0	10.0	02/25/2016	ND	224	112	200	3.37	
Surrogate: 1-Chlorooctane	97.3	% 35-147							
Surrogate: 1-Chlorooctadecane	84.7	28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 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

#### 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 incidental 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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #: Company:	
State: NM Zip:	88241 Attn:	
e #: 575-397-6388 Fax #: 575-	397 Address: Lawrer	
Project C	XV city:	
ame: TR Hoff MI	State: Zip:	
Project Location: 21, 1M	Phone #:	
Sampler Name: Tott Urve/20	Fax #:	
	R	
(G)RAB OR (C)OI # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
50/03 <- 12		X
2 20202.5 6	+ X 20:5 42:4 +	
PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive raneely for any client arising whenter based in contract or une, using on unevery every second behaviored within 30 days and the completion of the applicable analyses. At claims including those for negligence and any other cause whateover shall be deemed waived united sess made in within 30 days within 30 days after completion of the applicable analyses. At claims including those for negligence and any other cause whateover ishall be deemed waived united sess made in within 30 days within 30 days after completion of the applicable analyses. At claims including those for negligence and any other cause whateover ishall be deemed waived united sets made in writing and received by Cardina's table of the subsidiaries, service, in no event shall Cardina's believed and or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits narring by client, its subsidiaries, service, in no event shall Cardina's believed and analyses.	tedy for any claim arising whether based in contrata or un, sing our numer or uncernance or one or or one of the applicable shall be deemed weight unless made in writing and neoked by Cardinal white 30 days after completion of the applicable including without limitation, business interruptions, loss of use, or loss of profils incurred source are obsolidaries.	
arte: 74/6	Received By: Phone Result: Y Received By: Phone Result: Y Fax Result: Y Remarks:	res □ No Add'I Phone#: res □ No Add'I Fax#: v
Refinquished(By: Date: Rece	Received By:	Rust!!
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact Cool Intact Cool Intact Cool Intact	

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