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By Kellie Jones at 12:28 pm, Oct 29, 2015

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

INFORMATION ONLY

October 21, 2015

JASON ROBINSON

CHISOS OPERATING

670 DONA ANA ROAD, SW

DEMING, NM 88244

RE: JOHNS B 4 & 6 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/15 14:15.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

CHISOS OPERATING
JASON ROBINSON
670 DONA ANA ROAD, SW
DEMING NM, 88244
Fax To:

Received: 10/16/2015
Reported: 10/21/2015
Project Name: JOHNS B 4 & 6 BATTERY
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/16/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: W. SIDE OF TB #6 @ 4' (H502712-01)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.65	1.00	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	13.5	1.00	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	26.2	1.00	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	39.8	3.00	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	81.1	6.00	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/19/2015	ND	416	104	400	16.7	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1520	200	10/19/2015	ND	200	100	200	2.18		
DRO >C10-C28	9150	200	10/19/2015	ND	215	108	200	2.00		

Surrogate: 1-Chlorooctane 144 % 47.2-157

Surrogate: 1-Chlorooctadecane 231 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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JASON ROBINSON
670 DONA ANA ROAD, SW
DEMING NM, 88244
Fax To:

Received: 10/16/2015
Reported: 10/21/2015
Project Name: JOHNS B 4 & 6 BATTERY
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/16/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOIL ABOVE ROCK @ 3.5' (H502712-02)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.246	0.050	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	<0.050	0.050	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	0.313	0.050	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTX	0.559	0.300	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/19/2015	ND	416	104	400	16.7	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	10/19/2015	ND	200	100	200	2.18		
DRO >C10-C28	1620	200	10/19/2015	ND	215	108	200	2.00		

Surrogate: 1-Chlorooctane 87.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 224 % 52.1-176

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670 DONA ANA ROAD, SW
DEMING NM, 88244
Fax To:

Received: 10/16/2015
Reported: 10/21/2015
Project Name: JOHNS B 4 & 6 BATTERY
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/16/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: E. SIDE OF WATER TANK @ 4' (H502712-03)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	4.69	2.00	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	19.1	2.00	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	37.9	6.00	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTX	61.7	12.0	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 66.2-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/19/2015	ND	416	104	400	16.7	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4100	200	10/19/2015	ND	200	100	200	2.18	
DRO >C10-C28	13400	200	10/19/2015	ND	215	108	200	2.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4100	200	10/19/2015	ND	200	100	200	2.18	
DRO >C10-C28	13400	200	10/19/2015	ND	215	108	200	2.00	

Surrogate: 1-Chlorooctane 188 % 47.2-157

Surrogate: 1-Chlorooctadecane 339 % 52.1-176

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 JASON ROBINSON
 670 DONA ANA ROAD, SW
 DEMMING NM, 88244
 Fax To:

 Received: 10/16/2015
 Reported: 10/21/2015
 Project Name: JOHNS B 4 & 6 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 10/16/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SOIL ABOVE ROCK @ 3.5' (H502712-04)

BTX 8021B		mg/L	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.806	0.200	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	3.98	0.200	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	11.9	0.200	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	14.4	0.600	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTX	31.0	1.20	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 66.2-142

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	10/20/2015	ND	448	112	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	648	200	10/19/2015	ND	200	100	200	2.18	
DRO >C10-C28	10700	200	10/19/2015	ND	215	108	200	2.00	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 268 % 52.1-176

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DEMING NM, 88244
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Reported: 10/21/2015
Project Name: JOHNS B 4 & 6 BATTERY
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/16/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MIDDLE OF TANKS @ 4' (H502712-05)

BTX 8021B		mg/L	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	0.406	0.100	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	3.49	0.100	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	4.53	0.300	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTX	8.42	0.600	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 66.2-142

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	10/20/2015	ND	448	112	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	284	100	10/19/2015	ND	200	100	200	2.18	
DRO >C10-C28	3880	100	10/19/2015	ND	215	108	200	2.00	

Surrogate: 1-Chlorooctane 129 % 47.2-157

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Chisos</u> Project Manager: <u>Jason Robinson</u> Address: City: <u>Funice</u> State: <u>NM</u> Zip: Phone #: Fax #: Project #: Project Name: <u>Johns B 44 to battery</u> Project Location: Sampler Name: <u>Albert Sanchez</u>				P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:							
BILL TO				ANALYSIS REQUEST							
FOR LAB USE ONLY Lab I.D. <u>H502712</u> Sample I.D. 1 W Side of TB to 2 4' 2 Soil above rock to 3.5' 3 E Side of water tank to 4' 4 Soil above rock to 3.5' 5 Middle of tanks to 4'				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING DATE TIME		TPH BTEX			
Relinquished By: <u>Albert Sanchez</u> Relinquished By: <u>Jason Robinson</u> Time: <u>8:15</u> Date: <u>10/15</u> Received By: <u>Jason Robinson</u> Time: <u>3:40</u> Date: <u>10/15</u>				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Checked By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS: <u>Jason Robinson</u>					